



# Spacial Thalassa ClimaSys

Universal Enclosures  
Catalogue 2020

More than 60 years protecting your equipment



[se.com/enclosures](https://se.com/enclosures)

Life Is On

**Schneider**  
Electric



# Green Premium™

An industry leading portfolio of offers delivering sustainable value



More than 75% of our product sales offer superior transparency on the material content, regulatory information and environmental impact of our products:

- RoHS compliance
- REACH substance information
- Industry leading # of PEP's\*
- Circularity instructions



Discover what we mean by green  
[Check your products!](#)

The Green Premium program stands for our commitment to deliver customer valued sustainable performance. It has been upgraded with recognized environmental claims and extended to cover all offers including Products, Services and Solutions.

### CO<sub>2</sub> and P&L impact through... Resource Performance

Green Premium brings improved resource efficiency throughout an asset's lifecycle. This includes efficient use of energy and natural resources, along with the minimization of CO<sub>2</sub> emissions.

### Cost of ownership optimization through... Circular Performance

We're helping our customers optimize the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacture services.

### Peace of mind through... Well-being Performance

Green Premium products are RoHS and REACH compliant. We're going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

### Improved sales through... Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.

\*PEP: Product Environmental Profile (i.e. Environmental Product Declaration)

# Schneider Electric

## Our Universal Enclosures ranges, solutions for each application

PB500005



### Spacial Metal enclosures and boxes

From our small boxes to large suitable floor-standing enclosures, with the Spacial range you can find the perfect fit for your applications. Our extensive range of easy-to-use accessories helps you save time during your projects.

Select between steel or stainless steel to better suit the installation environment. In our stainless-steel offer you can find the optimal solution where cleanliness is required, or for highly corrosive environments.

PB500006



### Thalassa Insulating enclosures

Working in difficult environments can, without the right protection, expose your installation to chemical or aggressive substances. Developed to efficiently protect it; our Thalassa offer, from boxes to floor-standing enclosures, made in fibreglass-reinforced polyester, resists in hard conditions and outdoor applications.

Our Thalassa industrial boxes in ABS or polycarbonate are strong, easy to install and designed to be used in highly demanding environments.

PB502596-21



PB502612-30



### ClimaSys Thermal management

Preserving and keeping the right temperature inside your enclosure is vital for maximising the lifetime of your installed devices. With our ClimaSys offer you can find the right solution, be it Ventilation, Cooling or Heating, including control units for temperature, humidity and much more.

# Best materials for any application

Always a solution for any environment

PB500013-55



## > Solution:

The Spacial range in steel (wall-mounting, monobloc and suitable floor-standing enclosures).

## > Steel

### Indoor industrial environment

The industrial environment in mechanical plants is especially demanding as regards the protection of electric and electronic components against dust, splashing with oil and impacts. This environment therefore requires a range that is suited to the applications and easy to implement.

- **Standard range**, for industry.
- **E.M.C. range**, against electromagnetic disturbances (treated with Aluzinc).
- **Range of ATEX enclosures**, for potentially explosive atmospheres.

PB500014-55



## > Solution:

The Spacial range in stainless steel (wall-mounting, monobloc and suitable floor-standing enclosures).

## > 304L - 316L stainless steel

### Demanding industrial environment

Food and beverage, pharmaceutical, petrochemical and infrastructure industries are particularly demanding in terms of hygiene and resistance to corrosion. With two grades of stainless steel:

- **304L stainless steel:**  
Resistance to corrosion and cleanability (often used in food production environments).
- **316L stainless steel, also known as "marine stainless steel":**  
Very high resistance to corrosion (saline or chlorinated environment).

PB500015-28



PB500016-48



## > Solution:

The Thalassa range (boxes, wall-mounting and floor-standing enclosures).

## > Insulating polyester and plastic materials (ABS, polycarbonate)

### Infrastructures and industrial environments

Outdoor infrastructures and electrical installations are exposed to direct sunlight, rain, saline mist, extreme temperatures, oil splashes, chemical and corrosive agents.

- **Standard range**, for industry and infrastructures.

PB502732-46



PB502733-26



## > Solution:

The Thalassa PHD and Spacial S3HD and SFHD ranges (wall-mounting and floor-standing).

## > Heavy Duty materials

### Severe outdoor environments, generally requested by OEMs, telecom, water treatment and transportation

- Polyester Heavy Duty is suitable for outdoor public areas thanks to its multiple virtues:
  - pressure and shock resistant (IEC 61439-5: 2010),
  - anti-posting thanks to its special ribbed-surface door,
  - insulated (ready to be Class II according to IEC 61439-1: 2011).
- Steel Heavy Duty enclosures are designed for outdoor private areas:
  - they are engineered to resist aggressive environments (anti-corrosion certification class C4H, ISO 12944:1999).

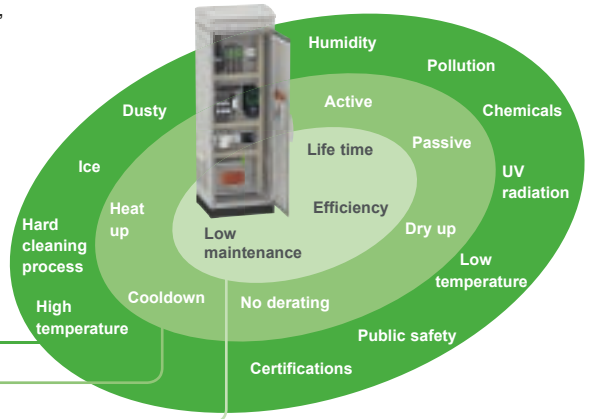
# How to define an enclosures solution?

## Invariables

Switchgear and Controlgear are the cornerstone of all electrical system. Industry, infrastructure, building, energy, transport, every segment.

The correct enclosure and thermal management selection is crucial to guaranty the targeted performance.

Safeguards of equipment installed inside and consequently, service continuity.



## The correct selection of an enclosure and thermal solution

Many influences must be considered when defining an enclosure system. They may be grouped in three groups:

- **Protection (Equipment and people)**
- **Thermal management**
- **Solution profitability**

## The environment and the enclosure

The table below is only indicative and not binding. It shows, in a general concept, the optimized performance of the Universal Enclosures ranges according to de environment conditions taking into account technical and commercial criteria:

- Very recommended
- Recommended
- Not recommended

Environment	Enclosure material						
	Steel	Steel Heavy Duty	Stainless-steel 304L	Stainless-steel 316L	Stainless-steel 316L Paint	Polyester	Polyester Heavy Duty
Indoor clean environment <sup>(1)</sup>	■■■	■	■	■	■	■	■
Hard cleaning process <sup>(2)</sup>	-	-	■■■	■■■	-	-	-
Outdoor (no public access)	-	■■■	■	■	■	■■■	■■■
Outdoor (public access)	-	■	■	■	■	■■■	■■■
Harsh chemicals	-	■	■■■	■■■	■■■	■■■	■■■
Solar radiation	-	■■■	-	■ <sup>(4)</sup>	■ <sup>(4)</sup>	■■■	■■■
Sand storm	-	-	■■■	■■■	-	■	■
Temperature > 40°C <sup>(3)</sup>	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Temperature < 5°C <sup>(3)</sup>	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Salty environment	-	-	-	■■■	■■■	■■■	■■■
Sea water splashes	-	-	-	■■■	■■■	■■■	■■■
Humidity > 70% <sup>(3)</sup>	-	■■■	■■■	■■■	■■■	■■■	■■■
Impact	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Vandalism	-	■■■	■	■	■	■	■■■
Burglary	-	■■■	■	■	■	■	■■■
Strong pollution	■	■■■	■■■	■■■	■■■	■■■	■■■
Vibration (Marine application)	■■■	-	■■■	■■■	■■■	■■■	-
Seismic	■■■	-	-	-	-	-	-
Electro Magnetic Interference	■■■	-	-	-	-	-	-

<sup>(1)</sup> Not considering F&B process

<sup>(2)</sup> e.g. F&B process

<sup>(3)</sup> Always using ClimaSys solutions

<sup>(4)</sup> Marine solar plants

## Thermal management

Thermal management system must guaranty the temperature and humidity controlled inside the enclosure.

The correct solution must be based on a robust process starting on the environment diagnostic, going to the parameters calculations and defining the best architecture (Enclosures + Equipment installed + Thermal solution).

ClimaSys is the definitive solution based on ClimaSys DT / EffiClima / ProClima.

# Selection tools

PB500009-165



## > [www.schneider-electric.com/enclosures](http://www.schneider-electric.com/enclosures)

Our web site allows you to access all the Schneider Electric products in just two clicks with direct links to:

- A complete library of technical documents, catalogues, FAQs brochures, etc.
- Certificates.
- 2D & 3D drawings.
- Selection Guides from the e-catalogue.
- Product discovery sites.

You may also find illustrated overviews, news to which you can subscribe, a list of country contacts and more useful information.



DB301271

## Our software suite



### > Digital Rules

#### Find the accessories that suit your enclosure

The digital rules allow you to select the best components from the current product range. There will be no risk of mistake, since product and accessory selection take place automatically, saving you time and money.

Download Digital Rules.  
Scan this



DB301275



### > ProClima

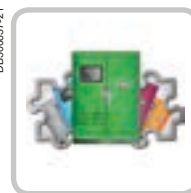
#### Find the best thermal solution for your enclosure

Select and calculate your thermal management requirements, according to the environment and the electrical/electronic devices installed inside the enclosure.

Download ProClima.  
Scan this



DB301223



### > Spacial.conf

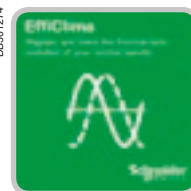
#### Get your enclosure pre-engineered for your special needs

Spacial.conf software gives you total autonomy to configure and quote enclosures with services (cut-outs, painting, accessory mounting) in less than 3 minutes. Spacial.conf is designed for convenient, error-free, and time-saving orders.

Have a smartphone or a tablet?  
Scan this



DB301238



### > EffiClima

#### Create a complete and accurate tracking report of thermal conditions

EffiClima software translates data into a report on temperature, humidity, and dew point. It provides security for your enclosures by monitoring and controlling the entire application environment directly.

Download EffiClima.  
Scan this



DB301221

# Customised solutions

Over **50 years** of experience, knowledge and expertise to have the best enclosure solution that meets your needs.

## Three offer levels to cover your different requirements

The tailored solution for special needs.

If you need special enclosures or thermal system, customized to improve technical data, mounting time, aesthetic or other characteristics, we offer you the customization possibility on three levels:

### Configured offer (CTO)

Configure any standard enclosure, right from your desktop... in under 5 min.

### Specific offer (ETO)

On-demand solution, optimized efficient integration of any complexity.

### CO-engineering

Meet any demanding specification, integration challenge, budget constraint, or supply chain need.

PRE500516-1B2



### Time saving

Delivered with cut-outs & painting: no waste of time



### Logistics

- Flexible management of your logistic option (scheduled delivery service for on-going orders)
- Special packaging



### Installation simplified

Enclosures delivered with cut-outs: you don't need special tools



### Ergonomic design

Customized project dedicated to your personal concern



### Life time increased

- Cut-outs done before painting, guarantees anti-corrosion performance and safe sealing
- Painting service for better protection



### Quality improved

- No burrs on edges of cut-outs
- Guaranteed machining tolerances



### Aesthetics

- Large choice of colours
- No scratches in external surfaces







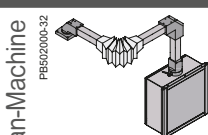






### Higher performances

- Adapted thermal management
- Upgraded stainless steel type

# Offers overview

## Spacial enclosures

	Steel		Stainless-steel
<b>Boxes</b>	 <p>PB500198-13 PB500351-20</p> <p><b>SDB Derivation box</b> <b>SBM Steel industrial boxes</b></p> <p>p. 34 p. 36</p> <p><b>Characteristics</b></p> <ul style="list-style-type: none"> <li>■ From 85 x 85 x 49 to 400 x 800 x 120 mm</li> <li>■ IP55 or IP66</li> <li>■ Up to IK10</li> </ul>		<p><b>Consult us</b></p>
<b>Wall-mounting</b>	 <p>PB500068-84</p> <p><b>CRN Wall-mounting steel</b></p> <ul style="list-style-type: none"> <li>● CRN 19" enclosures p. 413</li> <li>● S3DB Terminal enclosures p. 282</li> <li>● S3DBFL Terminal enclosures with FL21 cut-out p. 282</li> <li>● S3DM Modular wall-mounting enclosures p. 286</li> <li>● VDM 19" enclosures p. 410</li> <li>● S3DEX Potentially explosive atmospheres p. 445</li> <li>● S3HF Electromagnetic compatibility p. 436</li> <li>● S3D 6G, S3D 6G K3 Seismic and nuclear enclosures p. 386</li> </ul> <p><b>Characteristics</b></p> <ul style="list-style-type: none"> <li>■ From 300 x 200 x 150 to 1400 x 1000 x 300 mm</li> <li>■ Up to IP66</li> <li>■ Up to IK10</li> </ul>		 <p>PB500075-42</p> <p><b>S3X Wall-mounting</b></p> <p>p. 114</p> <p><b>Characteristics</b></p> <ul style="list-style-type: none"> <li>■ From 300 x 200 x 150 to 1200 x 1000 x 300 mm</li> <li>■ Up to IP66</li> <li>■ Up to IK10</li> </ul>
<b>Floor-standing</b>	 <p>PB500067-82</p> <p><b>SM Floor-standing compact</b> <b>SF Floor-standing suitable</b></p> <ul style="list-style-type: none"> <li>● 19" electronic enclosure p. 416</li> <li>● Automobile application p. 486</li> <li>● Accessories for modular floor-standing enclosures p. 292</li> <li>● Accessories for low voltage switchboards p. 298</li> <li>● SFM Motor control centers p. 340</li> <li>● SFP Prisma application p. 319</li> <li>● SFHF Electromagnetic compatibility p. 437</li> <li>● SF 6G, SFP 5G Seismic and nuclear enclosures p. 386</li> </ul> <p><b>Characteristics</b></p> <ul style="list-style-type: none"> <li>■ From 1200 x 600 x 400 to 2200 x 1200 x 800 mm</li> <li>■ IP55</li> <li>■ Up to IK10</li> </ul>		 <p>PB500198-26</p> <p><b>SMX Floor-standing monobloc</b> <b>SFX Floor-standing suitable</b></p> <p>p. 124 p. 124</p> <p><b>Characteristics</b></p> <ul style="list-style-type: none"> <li>■ From 1400 x 1000 x 300 to 2000 x 1600 x 600 mm</li> <li>■ IP66</li> <li>■ Up to IK10</li> </ul>
<b>Outdoor</b>	 <p>PB502865-21 PB502863-21</p> <p><b>S3HD Wall-mounting Heavy Duty enclosures</b> <b>SFHD Floor-standing Heavy Duty enclosures</b></p> <p>p. 372 p. 372</p> <p>Spacial S3HD and SFHD are engineered to resist aggressive environments (anti-corrosion certification class C4 H, ISO 12.944).</p> <p><b>Options</b> Ventilated plinths, roof ventilation module, slim fanbox, Heavy Duty fixings.</p> <p><b>Why should I choose it?</b> Designed to resist in outdoor private areas.</p> <p><b>Characteristics</b></p> <ul style="list-style-type: none"> <li>■ From 300 x 200 x 180 to 2000 x 800 x 430 mm</li> <li>■ Up to IP66</li> <li>■ IK10</li> </ul>		<p><b>Consult us</b></p>
<b>Interface</b>	 <p>PB502000-32</p> <p><b>S3CM Control enclosures with suspension system</b> <b>SD Compact control desks</b> <b>SDF Control desks with console</b> <b>SF PC rack</b></p> <p>p. 450 p. 460 p. 460 p. 476</p>		 <p>PB501287-30</p> <p><b>SDX Control desk</b> <b>SMX PC rack</b></p> <p>p. 461 p. 480</p>
<b>ClimaSys</b>	 <p>PB503589 PB500685-30</p> <p><b>CV Smart ventilation systems</b> <b>CV Ventilation Systems</b> <b>CA Natural airing</b></p> <p>p. 500 p. 510 p. 526</p>	 <p>PB502625-8 PB502618-9</p> <p><b>CE Exchangers</b> <b>CU Cooling Units</b></p> <p>p. 528 p. 539</p>	 <p>PB502047-10 PB502624-10</p> <p><b>CC Thermal Control</b> <b>CR Resistance Heaters</b> <b>DT Dataloggers</b></p> <p>p. 563 p. 556 p. 566</p>



# Offers overview

## Thalassa enclosures

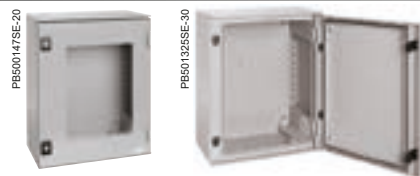
### Insulating materials

Details and technical datasheets available on [www.se.com/enclosures](http://www.se.com/enclosures)



**PLS** Insulating modular boxes p. 148  
**TBP** Polycarbonate industrial boxes p. 134  
**TBS** ABS industrial boxes p. 134

- Characteristics**
- From 74 x 74 x 54 to 540 x 720 x 230 mm
  - Up to IP66
  - Up to IK09



**PLM** Wall-mounting polyester p. 158

- Characteristics**
- From 308 x 215 x 160 to 1056 x 852 x 350 mm
  - Up to IP66
  - Up to IK10



**PLA** Floor-standing polyester enclosures p. 174  
**PLD** Floor-standing DIN polyester enclosures p. 198

- Characteristics**
- From 500 x 500 x 320 to 2000 x 750 x 420 mm
  - Up to IP65
  - Up to IK10



**PHD** Polyester Heavy Duty enclosures p. 372

- Thalassa PHD has multiple virtues:
- pressure and shock resistant (IEC 61439-5),
  - anti-posting thanks to its special front door,
  - insulated (Class II).

**Options**  
 Anti-burglary accessory, ventilated plinths, roof ventilation module, slim fanbox.

**Why should I choose it?**  
 Suitable for harsh environments in outdoor public areas.

- Characteristics**
- From 500 x 500 x 320 to 2000 x 750 x 420 mm
  - Up to IP65
  - IK10



**Digital Rules**  
 Enclosures selector



**Spacial.conf**  
 Services configurator



**ProClima**  
 Thermal calculation software



**EffiClima**  
 Thermal tracking software

### Accessories



Mounting p. 206



Lighting and power sockets p. 268



Cable management p. 242

### Project & Services

- CTO Customized to order
- ETO Engineered to order
- Co-engineering

### Spare Parts



p. 586



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# Selection guide

## Steel industrial boxes

### Metallic junction boxes SDB IP55

	External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Dimensions (mm)			Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	References	References	Height (A)	Width (B)	D	E	F	References	
Low cover models	85	85	49	NSYDBN88	NSYDB88M	1 n° 1	1 n° 1	58	58	-	-	0.18
	105	105	49	NSYDBN1010	NSYDB1010M	2 n° 1	1 n° 1	76	76	-	-	0.25
	155	105	61	NSYDBN1510	NSYDB1510M	3 n° 1	1 n° 1	124	74	56	NSYPMD1510	0.38
	206	156	83	NSYDBN2015	NSYDB2015M	3 n° 3	2 n° 3	172	122	78	NSYPMD2015	1
	256	206	93	NSYDBN2520	-	-	-	220	170	88	NSYPMD2520	1.5
	307	257	116	NSYDBN3025	-	-	-	268	218	110	NSYPMD3025	3.3

### Metallic modular boxes

External dimensions (mm)			SBM
Height	Width	Depth	
150	150	80	NSYSBM15158
		120	NSYSBM151512
	200	80	NSYSBM15208
		120	NSYSBM152012
	300	80	NSYSBM15308
		120	NSYSBM153012
400	80	80	NSYSBM15408
		120	NSYSBM154012
	200	80	NSYSBM20208
		120	NSYSBM202012
	300	80	NSYSBM20308
		120	NSYSBM203012
500	400	80	NSYSBM20408
		120	NSYSBM204012
	500	80	NSYSBM20508
		120	NSYSBM205012
	600	80	NSYSBM20608
		120	NSYSBM206012
800	800	120	NSYSBM208012
		300	NSYSBM303012
	400	120	NSYSBM304012
		120	NSYSBM305012
	500	120	NSYSBM306012
		120	NSYSBM308012
400	400	120	NSYSBM404012
		120	NSYSBM405012
	600	120	NSYSBM406012
		120	NSYSBM408012

### > Accessories and mounting plates for metallic modular boxes

All informations about accessories and mounting plate on page 40

# Selection guide

## Insulating industrial boxes

### Universal boxes with IP66

PB50009D-16



PB50009I-24



Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Material		PC-UL IP66 IK08	
Height	Width	Depth	Height	Width	Depth			ABS IP66 IK07	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	NSYTBS1176	-	NSYTBP1176	-
		94	105	65	85	45	40	NSYTBS1179H	-	-	-
		62	105	105	55	45	10	NSYTBS11116	-	NSYTBP11116	-
138	93	72	125	80	65	45	20	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
		87	150	105	80	60	20	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
164	121	87	175	105	80	60	20	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
		105	175	105	100	60	40	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
		87	175	150	80	60	20	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
		105	175	150	100	60	40	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	225	175	80	60	20	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
		107	225	175	100	80	20	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
		107	225	175	100	60	40	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
		127	225	175	120	80	40	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	275	225	80	60	20	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
		128	275	225	120	100	20	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
		128	275	225	120	60	60	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
		168	275	225	160	100	60	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
		168	325	275	160	100	60	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

### > Accessories and mounting plates for universal boxes with IP66

All informations about accessories and mounting plate on page 142

### Modular boxes



Dimensions (mm)			Complete box			Complete boxes in batches		
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover	Transparent cover	Amount per batch	
180	270	180	NSYPLS1827G	NSYPLSC1827G	NSYPLSP1827G	NSYPLS1827LG	56	
270	270	180	NSYPLS2727G	NSYPLSC2727G	NSYPLSP2727G	NSYPLS2727LG	56	
		230	NSYPLS2727AG	NSYPLSC2727AG	-	NSYPLS2727ALG	56	
	360	180	NSYPLS2736G	NSYPLSC2736G	NSYPLSP2736G	NSYPLS2736LG	56	
		230	NSYPLS2736AG	NSYPLSC2736AG	-	NSYPLS2736ALG	56	
360	540	180	NSYPLS2754G	NSYPLSC2754G	NSYPLSP2754G	NSYPLS2754LG	28	
		230	NSYPLS2754AG	NSYPLSC2754AG	-	NSYPLS2754ALG	28	
	360	360	180	NSYPLS3636G	NSYPLSC3636G	NSYPLSP3636G	NSYPLS3636LG	18
		540	180	NSYPLS3654G	NSYPLSC3654G	NSYPLSP3654G	NSYPLS3654LG	28
540	720	230	NSYPLS3672AG	NSYPLSC3672AG	-	NSYPLS3672ALG	27	
		230	NSYPLS3672AG	NSYPLSC3672AG	-	NSYPLS3672ALG	27	
	540	540	180	NSYPLS5454G	NSYPLSC5454G	NSYPLSP5454G	NSYPLS5454LG	14
		720	230	NSYPLS5454AG	NSYPLSC5454AG	-	NSYPLS5454ALG	14
720	230	NSYPLS5472AG	NSYPLSC5472AG	-	NSYPLS5472ALG	14		

### > Accessories and mounting plates for modular boxes

All informations about accessories and mounting plate on page 153

# Selection guide

## Steel wall-mounting enclosures

PB500109-15



PB500110-12



PB500072-10



PB500105-10



PB500101-13



Characteristics					Spacial CRN - CRNG			Mounting plate			
Dimensions			No. of doors	IP	Weight (1)	Plain door with mounting plate	Plain door without mounting plate	Glazed door without mounting plate	Plain	Silkscreened	Microperforated
H	W	D									
Page 49						Page 206			Page 206		

### CRN Wall-mounting steel enclosures

200	200	150	1	66	2.5	-	NSYCRN22150 (2)	-	NSYMM22	-	-
	300	150	1	66	3.9	-	NSYCRN23150 (2)	-	NSYMM32	-	NSYMF32
250	200	150	1	66	3.2	NSYCRN252150P	NSYCRN252150	-	NSYMM2520	-	-
300	250	150	1	66	4.2	NSYCRN325150P	NSYCRN325150	NSYCRN325150T	NSYMM3025	-	-
	200	1	66	4.9	NSYCRN325200P	NSYCRN325200	NSYCRN325200T	NSYMM3025	-	-	-
	300	150	1	66	5.0	NSYCRN33150P	NSYCRN33150	NSYCRN33150T	NSYMM33	-	NSYMF33
	200	1	66	6.0	NSYCRN33200P	NSYCRN33200	NSYCRN33200T	NSYMM33	-	-	NSYMF33
400	200	1	66	6.4	-	NSYCRN34200	NSYCRN34200	NSYCRN34200T	NSYMM43	NSYMS43	NSYMF43
450	150	1	66	6.7	-	NSYCRN345150 (2)	-	NSYMM3045	-	-	-
400	300	150	1	66	6.0	NSYCRN43150P	NSYCRN43150	NSYCRN43150T	NSYMM43	NSYMS43	NSYMF43
	200	1	66	6.8	NSYCRN43200P	NSYCRN43200	NSYCRN43200T	NSYMM43	NSYMS43	NSYMF43	-
	400	200	1	66	8.0	NSYCRN44200P	NSYCRN44200	NSYCRN44200T	NSYMM44	NSYMS44	NSYMF44
	600	250	1	66	10.0	NSYCRN46250P	NSYCRN46250	NSYCRN46250T	NSYMM64	NSYMS64	NSYMF64
	300	1	66	11.2	-	NSYCRN46300	NSYCRN46300T	NSYMM64	NSYMS64	NSYMF64	-
500	400	150	1	66	8.7	NSYCRN54150P	NSYCRN54150	NSYCRN54150T	NSYMM54	NSYMS54	NSYMF54
	200	1	66	9.8	NSYCRN54200P	NSYCRN54200	NSYCRN54200T	NSYMM54	NSYMS54	NSYMF54	-
	250	1	66	11.0	NSYCRN54250P	NSYCRN54250	NSYCRN54250T	NSYMM54	NSYMS54	NSYMF54	-
	500	250	1	66	12.8	NSYCRN55250P	NSYCRN55250	NSYCRN55250T	NSYMM55	NSYMS55	NSYMF55
600	400	150	1	66	9.3	NSYCRN64150P	NSYCRN64150	NSYCRN64150T	NSYMM64	NSYMS64	NSYMF64
	200	1	66	10.8	NSYCRN64200P	NSYCRN64200	NSYCRN64200T	NSYMM64	NSYMS64	NSYMF64	-
	250	1	66	12.3	NSYCRN64250P	NSYCRN64250	NSYCRN64250T	NSYMM64	NSYMS64	NSYMF64	-
	500	150	1	66	11.3	NSYCRN65150P	NSYCRN65150	NSYCRN65150T	NSYMM65	-	NSYMF65
	200	1	66	14.3	NSYCRN65200P	NSYCRN65200	NSYCRN65200T	NSYMM65	-	NSYMF65	-
	250	1	66	16.2	NSYCRN65250P	NSYCRN65250	NSYCRN65250T	NSYMM65	-	NSYMF65	-
	600	200	1	66	16.3	NSYCRN66200P	NSYCRN66200	NSYCRN66200T	NSYMM66	NSYMS66	NSYMF66
	250	1	66	18.2	NSYCRN66250P	NSYCRN66250	NSYCRN66250T	NSYMM66	NSYMS66	NSYMF66	-
	300	1	66	19.8	NSYCRN66300P	NSYCRN66300	NSYCRN66300T	NSYMM66	NSYMS66	NSYMF66	-
	800	300	1	66	26.0	-	NSYCRN68300	NSYCRN68300T	NSYMM86	NSYMS86	NSYMF86
700	500	200	1	66	17.3	NSYCRN75200P	NSYCRN75200	NSYCRN75200T	NSYMM75	NSYMS75	NSYMF75
	250	1	66	19.3	NSYCRN75250P	NSYCRN75250	NSYCRN75250T	NSYMM75	NSYMS75	NSYMF75	-
800	600	200	1	66	21.8	NSYCRN86200P	NSYCRN86200	NSYCRN86200T	NSYMM86	NSYMS86	NSYMF86
	250	1	66	24.8	NSYCRN86250P	NSYCRN86250	NSYCRN86250T	NSYMM86	NSYMS86	NSYMF86	-
	300	1	66	26.3	NSYCRN86300P	NSYCRN86300	NSYCRN86300T	NSYMM86	NSYMS86	NSYMF86	-
	800	200	1	66	29.5	NSYCRN88200P	NSYCRN88200	NSYCRN88200T	NSYMM88	-	NSYMF88
	300	1	66	32.5	NSYCRN88300P	NSYCRN88300	NSYCRN88300T	NSYMM88	-	NSYMF88	-
1000	600	250	1	66	28.4	NSYCRN106250P	NSYCRN106250	NSYCRN106250T	NSYMM106	-	NSYMF106
	300	1	66	30.6	NSYCRN106300P	NSYCRN106300	NSYCRN106300T	NSYMM106	-	NSYMF106	-
	800	250	1	66	34.5	NSYCRN108250P	NSYCRN108250	NSYCRN108250T	NSYMM108	-	NSYMF108
	300	1	66	37.4	NSYCRN108300P	NSYCRN108300	NSYCRN108300T	NSYMM108	-	NSYMF108	-

### CRNG Wall-mounting steel enclosures with three-point locking system

800	600	400	1	66	30.0	-	NSYCRNG86400	NSYCRNG86400T	NSYMM86	NSYMS86	NSYMF86
	1000	300	2	55	40.0	-	NSYCRNG810300D	-	NSYMM108	-	NSYMF108
	1200	300	2	55	46.0	-	NSYCRNG812300D	-	NSYMM128	-	NSYMF128
1000	600	400	1	66	36.0	-	NSYCRNG106400	NSYCRNG106400T	NSYMM106	-	NSYMF106
	800	400	1	66	43.0	-	NSYCRNG108400	NSYCRNG108400T	NSYMM108	-	NSYMF108
	1000	300	2 (3)	55	47.0	-	NSYCRNG1010300D	NSYCRNG1010300T	NSYMM1010	-	NSYMF1010
	1200	300	2	55	55.0	-	NSYCRNG1012300D	-	NSYMM1210	-	NSYMF1210
	400	2	55	60.0	-	NSYCRNG1012400D	-	NSYMM1210	-	NSYMF1210	-
1200	600	300	1	66	37.0	-	NSYCRNG126300T	NSYCRNG126300T	NSYMM126	-	NSYMF126
	400	1	66	42.0	-	NSYCRNG126400	NSYCRNG126400T	NSYMM126	-	NSYMF126	-
	800	300	1	66	45.0	-	NSYCRNG128300	NSYCRNG128300T	NSYMM128	-	NSYMF128
	400	1	66	50.0	-	NSYCRNG128400	NSYCRNG128400T	NSYMM128	-	NSYMF128	-
	1000	300	2	55	56.0	-	NSYCRNG1210300D	-	NSYMM1210	-	NSYMF1210
	400	2	55	61.0	-	NSYCRNG1210400D	-	NSYMM1210	-	NSYMF1210	-
	1200	300	2	55	64.0	-	NSYCRNG1212300D	-	NSYMM1212	-	2 x NSYMF126*
	400	2	55	90.0	-	NSYCRNG1212400D	-	NSYMM1212	-	2 x NSYMF126*	-
1400	1000	300	2	55	80.0	-	NSYCRNG1410300D	-	NSYMM1410	-	-

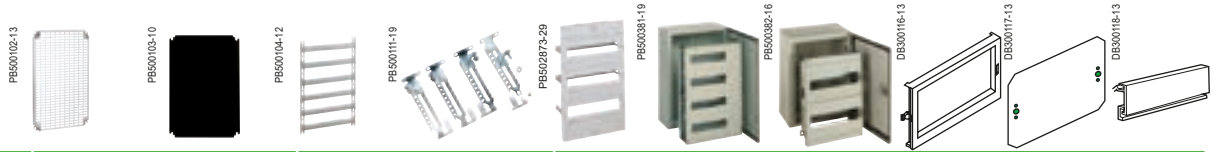
(1) Enclosure without mounting plate.

(2) Two cable gland plates, one on the top, one on the bottom.

(3) Except glazed door in single door.

# Selection guide

## Steel wall-mounting enclosures



Characteristics			Mounting plate		Accessories		Electric distribution					
Dimensions			Telequick	Bakelite	DIN rails chassis	Step slides	DLA insulated distribution chassis	DL fixed metal distribution chassis	DLM adjustable metal distribution chassis	Plain cover plate for DLM	Mounting plate for DLM	Blanking plate
H	W	D	Page 206	Page 207	Page 207	Page 210	Page 170	Page 289	Page 288	Page 288	Page 288	Page 289
<b>CRN Wall-mounting steel enclosures</b>												
200	200	150	-	-	-	-	-	-	-	-	-	-
		300	-	NSYMB32	-	-	-	-	-	-	-	-
250	200	150	-	-	-	-	-	-	-	-	-	-
300	250	150	NSYMR3025	NSYMB3025	-	-	-	NSYDLCR18	-	-	-	-
		200	NSYMR3025	NSYMB3025	-	NSYSDCR200	-	NSYDLCR18	-	-	-	-
	300	150	NSYMR33	NSYMB33	NSYMD33	-	-	-	-	-	-	-
		200	NSYMR33	NSYMB33	NSYMD33	NSYSDCR200	-	-	-	-	-	-
	400	200	NSYMR34	NSYMB43	-	NSYSDCR200	-	-	-	-	-	-
	450	150	-	NSYMB43	-	-	-	-	-	-	-	-
400	300	150	NSYMR43	NSYMB43	NSYMD43	-	NSYDLA24G	NSYDLCR24	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G
		200	NSYMR43	NSYMB43	NSYMD43	NSYSDCR200	NSYDLA24G	NSYDLCR36	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G
	400	200	NSYMR44	-	-	NSYSDCR200	-	-	-	-	-	-
	600	250	NSYMR46	NSYMB64	-	NSYSDCR250	-	-	-	-	-	-
		300	NSYMR46	NSYMB64	-	NSYSDCR300	-	-	-	-	-	-
500	400	150	NSYMR54	NSYMB54	NSYMD54	-	NSYDLA48G	-	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
		200	NSYMR54	NSYMB54	NSYMD54	NSYSDCR200	NSYDLA48G	-	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
		250	NSYMR54	NSYMB54	NSYMD54	NSYSDCR250	NSYDLA48G	NSYDLCR48	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
	500	250	NSYMR55	-	-	NSYSDCR250	-	-	-	-	-	-
600	400	150	NSYMR64	NSYMB64	NSYMD64	-	NSYDLA48PG	-	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
		200	NSYMR64	NSYMB64	NSYMD64	NSYSDCR200	NSYDLA48PG	-	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
		250	NSYMR64	NSYMB64	NSYMD64	NSYSDCR250	NSYDLA48PG	NSYDLCR64	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
	500	150	NSYMR65	NSYMB65	-	-	-	NSYDLCR64	-	-	-	-
		200	NSYMR65	NSYMB65	-	NSYSDCR200	-	-	-	-	-	-
		250	NSYMR65	NSYMB65	-	NSYSDCR250	-	NSYDLCR88	-	-	-	-
	600	200	NSYMR66	-	NSYMD66	NSYSDCR200	-	NSYDLCR88	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		250	NSYMR66	-	NSYMD66	NSYSDCR250	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		300	NSYMR66	-	NSYMD66	NSYSDCR300	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
	800	200	NSYMR68	-	-	NSYSDCR300	-	-	-	-	-	-
700	500	200	NSYMR75	NSYMB75	NSYMD75	NSYSDCR200	NSYDLA66G/NSYDLA88G	-	NSYDLM66/NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G
		250	NSYMR75	NSYMB75	NSYMD75	NSYSDCR250	NSYDLA66G/NSYDLA88G	-	NSYDLM66/NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G
800	600	200	NSYMR86	NSYMB86	NSYMD86	NSYSDCR200	NSYDLA84G/NSYDLA112G	NSYDLCR110	NSYDLM84/NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		250	NSYMR86	NSYMB86	NSYMD86	NSYSDCR250	NSYDLA84G/NSYDLA112G	-	NSYDLM84/NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		300	NSYMR86	NSYMB86	NSYMD86	NSYSDCR300	NSYDLA84G/NSYDLA112G	NSYDLCR135	NSYDLM84/NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
	800	200	NSYMR88	-	-	NSYSDCR200	-	-	-	-	-	-
		300	NSYMR88	-	-	NSYSDCR300	-	-	-	-	-	-
1000	600	250	NSYMR106	NSYMB106	-	NSYSDCR250	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		300	NSYMR106	NSYMB106	-	NSYSDCR300	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
	800	250	NSYMR108	NSYMB108	NSYMD108	NSYSDCR250	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G
		300	NSYMR108	NSYMB108	NSYMD108	NSYSDCR300	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G
<b>CRNG Wall-mounting steel enclosures with three-point locking system</b>												
800	600	400	NSYMR86	NSYMB86	NSYMD86	NSYSDCR400	NSYDLA84G/NSYDLA112G	-	NSYDLM84/NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		1000	300	NSYMR810	-	-	NSYSDCR300	-	-	-	-	-
	1200	300	2 x NSYMR86*	-	-	NSYSDCR300**	-	-	-	-	-	
1000	600	400	NSYMR106	NSYMB106	-	NSYSDCR400	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
		800	400	NSYMR108	NSYMB108	NSYMD108	NSYSDCR400	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM
	1000	300	NSYMR1010 (4)	NSYMB1210	-	NSYSDCR300	-	-	-	-	-	-
		1200	300	NSYMR1012 (4)	NSYMB1210	-	NSYSDCR300**	-	-	-	-	-
	1200	400	NSYMR1012 (4)	-	-	NSYSDCR400**	-	-	-	-	-	-
		300	NSYMR126	-	-	NSYSDCR300	-	-	-	-	-	-
	800	400	NSYMR126	-	-	NSYSDCR400	-	-	-	-	-	-
		300	NSYMR128	-	NSYMD128	NSYSDCR300	-	-	-	-	-	-
	1000	400	NSYMR128	-	NSYMD128	NSYSDCR400	-	-	-	-	-	-
		300	NSYMR1210 (4)	NSYMB1210	-	NSYSDCR300	-	-	-	-	-	-
	1200	400	NSYMR1210 (4)	NSYMB1210	-	NSYSDCR400	-	-	-	-	-	-
		300	2 x NSYMR126*	-	-	NSYSDCR300**	-	-	-	-	-	-
	1400	400	2 x NSYMR126*	-	-	NSYSDCR400**	-	-	-	-	-	-
1400	1000	300	NSYMR1410 (4)	-	-	NSYSDCR300	-	-	-	-	-	-

(4) Ref. NSYEMR mandatory.

\* Order NSYCRNGSDR to mount double mounting plate.

\*\* Except for double mounting plate, order in addition ref. NSYSDRSDCR300 (D300) or NSYSDRSDCR400 (D400).

# Selection guide

## for applicative and customised solutions wall-mounting enclosures



Characteristics					Basic enclosures							
					Empty application enclosures				19" enclosure with glazed door (1)			
Dimensions (mm)			No. of doors	IP	S3DB terminal enclosures	S3DBFL terminal enclosures with FL21 cut-out	S3DM modular enclosures with glazed door	VDM steel enclosures with 19" swing rack	No. of U	1-body 19" fixed rack	No. of U	
H	W	D			Page 283	Page 283	Page 287	Page 410		Page 410		
200	300	150	1	66	-	-	-	-	-	-	-	
250	300	150	1	66	<b>NSYS3DB25315</b>	-	-	-	-	-	-	
	400	150	1	66	<b>NSYS3DB25415</b>	-	-	-	-	-	-	
	500	150	1	66	<b>NSYS3DB25515</b>	-	-	-	-	-	-	
300	300	150	1	66	<b>NSYS3DB3315</b>	-	-	-	-	-	-	
		170	1	66	-	<b>NSYS3DBFL3317</b>	-	-	-	-	-	
	400	150	1	66	<b>NSYS3DB3415</b>	-	-	-	-	-	-	
		170	1	66	-	<b>NSYS3DBFL3417</b>	-	-	-	-	-	
	500	150	1	66	<b>NSYS3DB3515</b>	-	-	-	-	-	-	
		200	1	66	-	-	-	-	-	-	-	
600		150	1	66	<b>NSYS3DB3615</b>	-	-	-	-	-		
400	300	150	1	66	<b>NSYS3DB4315</b>	-	<b>NSYS3DM4315T</b>	-	-	-	-	
		170	1	66	-	<b>NSYS3DBFL4317</b>	-	-	-	-	-	
		600	400	1	66	-	-	-	<b>NSYVDM7U4P</b>	7	<b>NSYVDM8U4F</b>	8
	800	150	1	66	-	-	-	-	-	-	-	
		400	1	66	-	-	-	-	-	-	-	
		500	1	66	-	-	-	-	-	-	-	
500	400	150	1	66	<b>NSYS3DB5415</b>	-	<b>NSYS3DM5415T</b>	-	-	-		
	600	400	1	66	-	-	-	<b>NSYVDM9U4P</b>	9	<b>NSYVDM10U4F</b>	10	
		500	1	66	-	-	-	-	-	-		
600	400	150	1	66	<b>NSYS3DB6415</b>	-	<b>NSYS3DM6415T</b>	-	-	-		
	600	150	1	66	-	-	<b>NSYS3DM6615T</b>	-	-	-		
700	500	150	1	66	-	-	-	-	-	-		
		150	1	66	-	-	<b>NSYS3DM7515T</b>	-	-	-		
	600	400	1	66	-	-	-	<b>NSYVDM13U4P</b>	13	<b>NSYVDM14U4F</b>	14	
800	600	150	1	66	-	-	-	-	-	-		
		150	1	66	-	-	<b>NSYS3DM8615T</b>	-	-	-		
		400	1	66	-	-	-	<b>NSYVDM16U4P</b>	16	<b>NSYVDM17U4F</b>	17	
		500	1	66	-	-	-	-	-	-		
1000	600	150	1	66	-	-	<b>NSYS3DM10615T</b>	-	-	-		
	800	150	1	66	-	-	<b>NSYS3DM10815T</b>	-	-	-		

(1) Plain door, please consult us.

### Wall-fixing brackets



Steel: **NSYAEFPFSC**  
Stainless steel: **NSYAEFPFXSC**  
Page 58

### Reinforcement for heavy loads



**NSYAEFAHLBSC**  
Page 58

### Cable gland

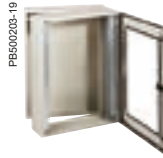


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# Selection guide

for applicative and customised solutions  
wall-mounting enclosures



Characteristics			Basic enclosures 19" enclosure with glazed door (1)		Accessories Electricity distribution		Automatism					
Dimensions (mm)			No. of doors	IP	2 parts with 19" fixed rack	No. of U	Modular mounting chassis (metallic)	No. of modules	DIN rail support and DIN rail	Plain mounting plate	Telequick mounting plate	Aluminium vertical rails
H	W	D			Page 410		Page 288			Page 206	Page 206	Page 211
200	300	150	1	66	-	-	-	-	NSYAMRD2030	NSYMM32	-	-
250	300	150	1	66	-	-	-	-	NSYAMRD2530	NSYMM3025	-	-
	400	150	1	66	-	-	-	-	NSYAMRD2540	NSYMM2540	-	-
	500	150	1	66	-	-	-	-	NSYAMRD2550	NSYMM2550	-	-
300	300	150	1	66	-	-	-	-	NSYAMRD3030	NSYMM33	NSYMR33	NSYMDVR3
		170	1	66	-	-	-	-	NSYAMRD3030	NSYMM33	NSYMR33	-
	400	150	1	66	-	-	-	-	NSYAMRD3040	NSYMM43	NSYMR34	NSYMDVR3
		170	1	66	-	-	-	-	NSYAMRD3040	NSYMM43	NSYMR34	-
	500	150	1	66	-	-	-	-	NSYAMRD3050	NSYMM53	-	NSYMDVR3
		200	1	66	-	-	-	-	NSYAMRD3050	NSYMM53	-	NSYMDVR3
600	150	1	66	-	-	-	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
		400	1	66	NSYVD2M5U4	5	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
		500	1	66	NSYVD2M5U5	5	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
400	300	150	1	66	-	-	NSYDLM24	24	NSYAMRD43	NSYMM43	NSYMR43	NSYMDVR4
		170	1	66	-	-	-	-	NSYAMRD43	NSYMM43	NSYMR43	-
	600	400	1	66	NSYVD2M8U4	8	-	-	-	NSYMM64	NSYMR46	NSYMDVR4
		500	1	66	NSYVD2M8U5	8	-	-	NSYAMRD48	NSYMM64	NSYMR46	NSYMDVR4
	800	150	1	66	-	-	-	-	NSYAMRD54	NSYMM48	-	NSYMDVR4
500	400	150	1	66	-	-	NSYDLM48	48	-	NSYMM54	NSYMR54	NSYMDVR5
		600	1	66	NSYVD2M10U4	10	-	-	-	NSYMM65	-	NSYMDVR5
		500	1	66	NSYVD2M10U5	10	-	-	-	NSYMM65	-	NSYMDVR5
600	400	150	1	66	-	-	NSYDLM48P	48	NSYAMRD64	NSYMM64	NSYMR64	NSYMDVR6
	600	150	1	66	-	-	NSYDLM84P	84	-	NSYMM66	NSYMR66	NSYMDVR6
700	500	150	1	66	-	-	NSYDLM66	66	-	NSYMM75	NSYMR75	NSYMDVR7
		150	1	66	-	-	NSYDLM88	88	-	NSYMM75	NSYMR75	NSYMDVR7
	600	400	1	66	NSYVD2M14U4	14	-	-	-	NSYMM76	NSYMR76	NSYMDVR7
		500	1	66	NSYVD2M14U5	14	-	-	-	NSYMM76	NSYMR76	NSYMDVR7
800	600	150	1	66	-	-	NSYDLM84	84	-	NSYMM86	NSYMR86	NSYMDVR8
		150	1	66	-	-	NSYDLM112	112	-	NSYMM86	NSYMR86	NSYMDVR8
	400	1	66	NSYVD2M17U4	17	-	-	-	NSYMM86	NSYMR86	NSYMDVR8	
		500	1	66	NSYVD2M17U5	17	-	-	-	NSYMM86	NSYMR86	NSYMDVR8
1000	600	150	1	66	-	-	NSYDLM168	168	-	NSYMM106	NSYMR106	NSYMDVR10
		800	150	1	66	-	-	NSYDLM240	234	-	NSYMM108	NSYMR108

**Other cable entries** Page 242

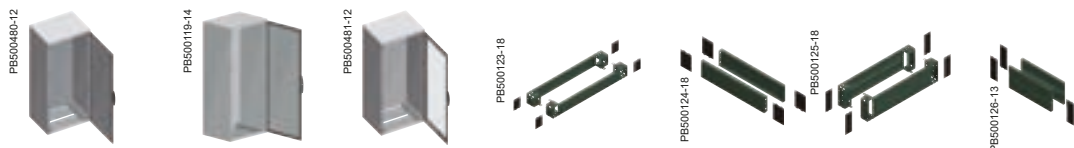
**Clip-on nuts** Page 240

**Self-tapping screw** NSYS13M5HS  
Page 241

# Selection guide

## Steel floor-standing enclosures

SM



Characteristics			Door			Plinth					
Dimensions (mm)			No. of doors	Plain		Transparent	Height 100 mm		Height 200 mm		
H (A)	W (B)	D (C)		With mounting plate	Without mounting plate	Without mounting plate	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.	
1200	800	300	1	NSYSM12830P	NSYSM12830	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
	1000	300	2	NSYSM1210302DP	NSYSM1210302D	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200	
	1200	400	2	NSYSM1212402DP	NSYSM1212402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
1400	600	300	1	NSYSM14630P	NSYSM14630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200	
		400	1	NSYSM14640P	NSYSM14640	-	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	
	800	300	1	NSYSM14830P	NSYSM14830	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
		400	1	NSYSM14840P	NSYSM14840	NSYSM14840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
		1000	400	2	NSYSM1410402DP	NSYSM1410402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
1200	400	2	NSYSM1412402DP	NSYSM1412402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200		
1600	600	300	1	NSYSM16630P	NSYSM16630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200	
		400	1	NSYSM16640P	NSYSM16640	NSYSM16640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	
	800	300	1	NSYSM16830P	NSYSM16830	NSYSM16830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
		400	1	NSYSM16840P	NSYSM16840	NSYSM16840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
	1000	300	2	NSYSM1610302DP	NSYSM1610302D	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200	
		400	2	NSYSM1610402DP	NSYSM1610402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
	1200	300	2	NSYSM1612302DP	NSYSM1612302D	-	NSYSPF12100	NSYSPS3100	NSYSPF12200	NSYSPS3200	
		400	2	NSYSM1612402DP	NSYSM1612402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
	1800	600	300	1	NSYSM18630P	NSYSM18630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
			400	1	NSYSM18640P	NSYSM18640	NSYSM18640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
500			1	NSYSM18650P	NSYSM18650	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	
800			1	NSYSM18830P	NSYSM18830	NSYSM18830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
800		400	1	NSYSM18840P	NSYSM18840	NSYSM18840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
		500	1	NSYSM18850P	NSYSM18850	NSYSM18850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	
		600	1	NSYSM18860P	NSYSM18860	-	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	
		1000	1	NSYSM181040P	NSYSM181040	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
1000		400	2	NSYSM1810402DP	NSYSM1810402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
		500	2	NSYSM1810502DP	NSYSM1810502D	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	
		1200	400	2	NSYSM1812402DP	NSYSM1812402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
			500	2	NSYSM1812502DP	NSYSM1812502D	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200
1600		400	2	NSYSM1816402DP	NSYSM1816402D	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	
		500	2	NSYSM1816502DP	NSYSM1816502D	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	
2000	600	300	1	NSYSM20630P	NSYSM20630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200	
		400	1	NSYSM20640P	NSYSM20640	NSYSM20640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	
		500	1	NSYSM20650P	NSYSM20650	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	
	800	300	1	NSYSM20830P	NSYSM20830	NSYSM20830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
		400	1	NSYSM20840P	NSYSM20840	NSYSM20840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
		500	1	NSYSM20850P	NSYSM20850	NSYSM20850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	
		600	1	NSYSM20860P	NSYSM20860	NSYSM20860T	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	
	1000	400	2	NSYSM2010402DP	NSYSM2010402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
		500	2	NSYSM2010502DP	NSYSM2010502D	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	
	1200	400	2	NSYSM2012402DP	NSYSM2012402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
		500	2	NSYSM2012502DP	NSYSM2012502D	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	
		600	2	NSYSM2012602DP	NSYSM2012602D	-	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	
	1600	400	2	NSYSM2016402DP	NSYSM2016402D	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	
		500	2	NSYSM2016502DP	NSYSM2016502D	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	
		600	2	NSYSM2016602DP	NSYSM2016602D	-	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200	

> Specific accessories overview page 84

# Selection guide

## Steel floor-standing enclosures

**SM**

PB500475-12



PB500477-7



PB500482-10



PB500483-13



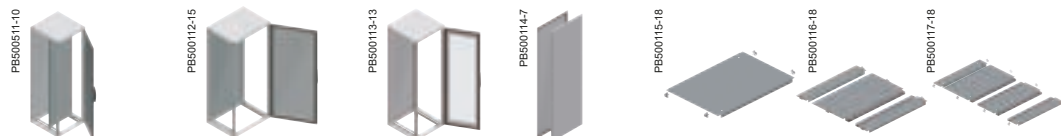
PB500473-12



Characteristics			Inner door	Mounting plate	Vertical uprights		Off-centre 19" swing rack	Centred 19" swing rack		
Dimensions (mm)					No. of doors	Standard			Technical	
H (A)	W (B)	D (C)								
1200	800	300	1	-	NSYMP128	-	NSYTVR12	-	-	
	1000	300	2	-	NSYMP1210	-	NSYTVR12	-	-	
	1200	400	2	-	NSYMP1212	-	NSYTVR12	-	-	
1400	600	300	1	-	NSYMP146	-	NSYTVR14	-	-	
		400	1	-	NSYMP146	-	NSYTVR14	-	-	
	800	300	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27	
		400	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27	
	1000	400	2	-	NSYMP1410	-	NSYTVR14	-	-	
	1200	400	2	-	NSYMP1412	-	NSYTVR14	-	-	
1600	600	300	1	NSYID166	NSYMP166	-	NSYTVR16	-	-	
		400	1	NSYID166	NSYMP166	-	NSYTVR16	-	-	
	800	300	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31	
		400	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31	
	1000	300	2	-	NSYMP1610	-	NSYTVR16	-	-	
		400	2	-	NSYMP1610	-	NSYTVR16	-	-	
	1200	300	2	-	NSYMP1612	-	NSYTVR16	-	-	
		400	2	-	NSYMP1612	-	NSYTVR16	-	-	
	1800	600	300	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
			400	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
			500	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
		800	300	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
400			1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
500			1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
600			1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
1000		400	1	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
		400	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
		500	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
1200		400	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-	
		500	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-	
1600		400	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-	
		500	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-	
2000		600	300	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
			400	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
			500	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
		800	300	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
	400		1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
	500		1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
	600		1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
	1000	400	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-	
		500	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-	
	1200	400	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
		500	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
		600	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
	1600	400	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	
		500	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	
		600	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	

# Selection guide

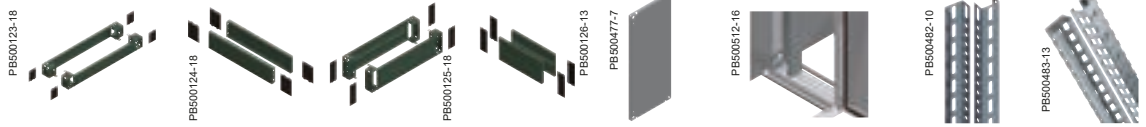
## Steel floor-standing enclosures



Nominal dimensions (mm)			No. of doors	Door			Side panels	Cable-entry plate			
Height (A)	Width (B)	Depth (C)		Plain	Transparent			Plain	1 entry	2 entries	
				With mounting plate	Without mounting plate	Without mounting plate					
1200	600	400	1	NSYSF12640P	NSYSF12640	-	NSY2SP124	NSYEC64	NSYEC641	-	
		600	1	NSYSF12660P	NSYSF12660	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662	
	800	400	1	NSYSF12840P	NSYSF12840	-	NSY2SP124	NSYEC84	NSYEC841	-	
1400	600	600	1	NSYSF12860P	NSYSF12860	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862	
		400	1	NSYSF14640P	NSYSF14640	-	NSY2SP144	NSYEC64	NSYEC641	-	
	800	400	1	NSYSF14840P	NSYSF14840	-	NSY2SP144	NSYEC84	NSYEC841	-	
1600	600	600	1	NSYSF16660P	NSYSF16660	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662	
		800	1	NSYSF16680P	NSYSF16680	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682	
	800	600	1	NSYSF16860P	NSYSF16860	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862	
1800	400	400	1	-	NSYSF18440	-	NSY2SP184	NSYEC44	NSYEC441	-	
		500	1	-	NSYSF18450	-	NSY2SP185	NSYEC45	NSYEC451	-	
		600	1	-	NSYSF18460	-	NSY2SP186	-	NSYEC461	-	
	600	400	1	NSYSF18640P	NSYSF18640	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-	
		500	1	NSYSF18650P	NSYSF18650	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-	
		600	1	NSYSF18660P	NSYSF18660	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662	
	800	400	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682	
		400	1	NSYSF18840P	NSYSF18840	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-	
		500	1	NSYSF18850P	NSYSF18850	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-	
	1000	600	600	1	NSYSF18860P	NSYSF18860	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
			600	2	NSYSF188602DP	NSYSF188602D	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
			400	1	NSYSF181040P	NSYSF181040	-	NSY2SP184	NSYEC104	NSYEC1041	-
1200		400	2	NSYSF1810402DP	NSYSF1810402D	-	NSY2SP184	NSYEC104	NSYEC1041	-	
		500	1	NSYSF181050P	NSYSF181050	-	NSY2SP185	NSYEC105	NSYEC1051	-	
		600	1	NSYSF181060P	NSYSF181060	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062	
2000	300	600	2	NSYSF1810602DP	NSYSF1810602D	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062	
		400	2	NSYSF1812402DP	NSYSF1812402D	-	NSY2SP184	NSYEC124	NSYEC1241	-	
		500	2	NSYSF1812502DP	NSYSF1812502D	-	NSY2SP185	NSYEC125	NSYEC1251	-	
	400	600	2	NSYSF1812602DP	NSYSF1812602D	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262	
		500	1	-	NSYSF20350	-	NSY2SP205	NSYEC35	NSYEC351	-	
		600	1	-	NSYSF20360	-	NSY2SP206	NSYEC36	NSYEC361	-	
800		1	-	NSYSF20380	-	NSY2SP208	-	NSYEC381	-		
400		1	-	NSYSF20440	-	NSY2SP204	NSYEC44	NSYEC441	-		
500		1	-	NSYSF20450	-	NSY2SP205	NSYEC45	NSYEC451	-		
600		1	-	NSYSF20460	-	NSY2SP206	NSYEC46	NSYEC461	-		
800		1	-	NSYSF20480	-	NSY2SP208	NSYEC48	NSYEC481	-		
600		400	400	1	NSYSF20640P	NSYSF20640	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
	500		1	NSYSF20650P	NSYSF20650	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-	
	600		1	NSYSF20660P	NSYSF20660	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662	
	800	800	1	NSYSF20680P	NSYSF20680	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682	
		400	1	NSYSF20840P	NSYSF20840	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-	
		500	1	NSYSF20850P	NSYSF20850	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-	
	1000	600	1	NSYSF20860P	NSYSF20860	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862	
		600	2	NSYSF208602DP	NSYSF208602D	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862	
		800	1	NSYSF20880P	NSYSF20880	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882	
		400	1	NSYSF201040P	NSYSF201040	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-	
		400	2	NSYSF2010402DP	NSYSF2010402D	-	NSY2SP204	NSYEC104	NSYEC1041	-	
		500	1	NSYSF201050P	NSYSF201050	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-	
1200	500	2	NSYSF2010502DP	NSYSF2010502D	-	NSY2SP205	NSYEC105	NSYEC1051	-		
	600	1	NSYSF201060P	NSYSF201060	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062		
	600	2	NSYSF2010602DP	NSYSF2010602D	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062		
	800	1	NSYSF201080P	NSYSF201080	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082		
	400	2	NSYSF2012402DP	NSYSF2012402D	-	NSY2SP204	NSYEC124	NSYEC1241	-		
	500	2	NSYSF2012502DP	NSYSF2012502D	-	NSY2SP205	NSYEC125	NSYEC1251	-		
1600	600	2	NSYSF2012602DP	NSYSF2012602D	-	NSY2SP206	NSYEC126	NSYEC1261	NSYEC1262		
	800	2	NSYSF2012802DP	NSYSF2012802D	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282		
	400	2	NSYSF2016402DP	NSYSF2016402D	-	NSY2SP204	NSYEC164	NSYEC1641	-		
	500	2	NSYSF2016502DP	NSYSF2016502D	-	NSY2SP205	NSYEC165	NSYEC1651	-		
	600	2	NSYSF2016602DP	NSYSF2016602D	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662		
	2200	400	600	1	-	NSYSF22460	-	NSY2SP226	-	NSYEC461	-
600	600	1	NSYSF22660P	NSYSF22660	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662		
	800	1	NSYSF22680P	NSYSF22680	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682		
	800	1	NSYSF22860P	NSYSF22860	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862		
800	600	1	NSYSF22880P	NSYSF22880	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882		
	800	1	NSYSF221060P	NSYSF221060	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062		
	1000	600	1	NSYSF221060P	NSYSF221060	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062	
1200	600	2	NSYSF2212602DP	NSYSF2212602D	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262		
	800	2	NSYSF2212802DP	NSYSF2212802D	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282		

# Selection guide

## Steel floor-standing enclosures

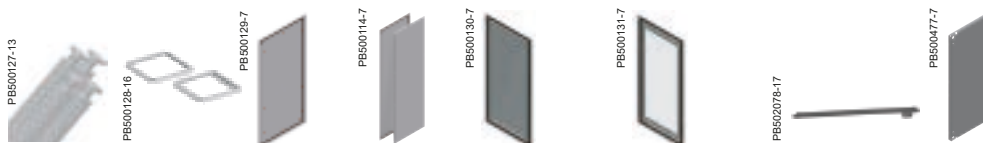


Nominal dimensions (mm)			Plinth				Mounting plate	Intermediate mounting plate	Vertical uprights		
Height (A)	Width (B)	Depth (C)	Height 100 mm		Height 200 mm				Standard	Technical	
			Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.					
1200	600	400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12	
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12	
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12	
	800	400	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12	
		600	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14	
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14	
1400	600	400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14	
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16	
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP168	NSYSIMP16	-	NSYTVR16	
	800	400	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16	
		600	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP168	NSYSIMP16	-	NSYTVR16	
		800	NSYSPPF8100	NSYSPPS8100	NSYSPPF8200	NSYSPPS8200	NSYMP168	NSYSIMP16	-	NSYTVR16	
1800	400	400	NSYSPPF4100	NSYSPPS4100	NSYSPPF4200	NSYSPPS4200	-	-	NSYVVR18	NSYTVR18	
		500	NSYSPPF4100	NSYSPPS5100	NSYSPPF4200	NSYSPPS5200	-	-	NSYVVR18	NSYTVR18	
		600	NSYSPPF4100	NSYSPPS6100	NSYSPPF4200	NSYSPPS6200	-	-	NSYVVR18	NSYTVR18	
		400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18	
		500	NSYSPPF6100	NSYSPPS5100	NSYSPPF6200	NSYSPPS5200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18	
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18	
	800	400	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18	
		500	NSYSPPF8100	NSYSPPS5100	NSYSPPF8200	NSYSPPS5200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18	
		600	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18	
		400	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
		400	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
		500	NSYSPPF10100	NSYSPPS5100	NSYSPPF10200	NSYSPPS5200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
	1000	400	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
		600	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
		400	NSYSPPF12100	NSYSPPS4100	NSYSPPF12200	NSYSPPS4200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18	
		500	NSYSPPF12100	NSYSPPS5100	NSYSPPF12200	NSYSPPS5200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18	
		600	NSYSPPF12100	NSYSPPS6100	NSYSPPF12200	NSYSPPS6200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18	
		600	NSYSPPF12100	NSYSPPS6100	NSYSPPF12200	NSYSPPS6200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18	
2000	300	500	NSYSPPF3100	NSYSPPS5100	NSYSPPF3200	NSYSPPS5200	-	-	NSYVVR20	NSYTVR20	
		600	NSYSPPF3100	NSYSPPS6100	NSYSPPF3200	NSYSPPS6200	-	-	NSYVVR20	NSYTVR20	
		800	NSYSPPF3100	NSYSPPS8100	NSYSPPF3200	NSYSPPS8200	-	-	NSYVVR20	NSYTVR20	
		400	NSYSPPF4100	NSYSPPS4100	NSYSPPF4200	NSYSPPS4200	-	-	NSYVVR20	NSYTVR20	
		500	NSYSPPF4100	NSYSPPS5100	NSYSPPF4200	NSYSPPS5200	-	-	NSYVVR20	NSYTVR20	
		600	NSYSPPF4100	NSYSPPS6100	NSYSPPF4200	NSYSPPS6200	-	-	NSYVVR20	NSYTVR20	
	400	400	NSYSPPF4100	NSYSPPS8100	NSYSPPF4200	NSYSPPS8200	-	-	NSYVVR20	NSYTVR20	
		500	NSYSPPF4100	NSYSPPS5100	NSYSPPF4200	NSYSPPS5200	-	-	NSYVVR20	NSYTVR20	
		600	NSYSPPF4100	NSYSPPS6100	NSYSPPF4200	NSYSPPS6200	-	-	NSYVVR20	NSYTVR20	
		400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP206	NSYSIMP20	NSYVVR20	NSYTVR20	
		500	NSYSPPF6100	NSYSPPS5100	NSYSPPF6200	NSYSPPS5200	NSYMP206	NSYSIMP20	NSYVVR20	NSYTVR20	
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP206	NSYSIMP20	NSYVVR20	NSYTVR20	
	800	400	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
		500	NSYSPPF8100	NSYSPPS5100	NSYSPPF8200	NSYSPPS5200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
		600	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
		400	NSYSPPF8100	NSYSPPS8100	NSYSPPF8200	NSYSPPS8200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
		600	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
		800	NSYSPPF8100	NSYSPPS8100	NSYSPPF8200	NSYSPPS8200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
	1000	400	400	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20
			500	NSYSPPF10100	NSYSPPS5100	NSYSPPF10200	NSYSPPS5200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20
			600	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20
			400	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20
			500	NSYSPPF10100	NSYSPPS5100	NSYSPPF10200	NSYSPPS5200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20
			600	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20
800		400	NSYSPPF10100	NSYSPPS8100	NSYSPPF10200	NSYSPPS8200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
		600	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
		800	NSYSPPF10100	NSYSPPS8100	NSYSPPF10200	NSYSPPS8200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
		400	NSYSPPF12100	NSYSPPS4100	NSYSPPF12200	NSYSPPS4200	NSYMP2012	NSYSIMP20	NSYVVR20	NSYTVR20	
		500	NSYSPPF12100	NSYSPPS5100	NSYSPPF12200	NSYSPPS5200	NSYMP2012	NSYSIMP20	NSYVVR20	NSYTVR20	
		600	NSYSPPF12100	NSYSPPS6100	NSYSPPF12200	NSYSPPS6200	NSYMP2012	NSYSIMP20	NSYVVR20	NSYTVR20	
1600	400	400	NSYSPPF16100	NSYSPPS4100	NSYSPPF16200	NSYSPPS4200	NSYMP2016	NSYSIMP20	NSYVVR20	NSYTVR20	
		500	NSYSPPF16100	NSYSPPS5100	NSYSPPF16200	NSYSPPS5200	NSYMP2016	NSYSIMP20	NSYVVR20	NSYTVR20	
		600	NSYSPPF16100	NSYSPPS6100	NSYSPPF16200	NSYSPPS6200	NSYMP2016	NSYSIMP20	NSYVVR20	NSYTVR20	
	600	400	NSYSPPF4100	NSYSPPS6100	NSYSPPF4200	NSYSPPS6200	-	-	NSYVVR22	NSYTVR22	
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP226	NSYSIMP22	NSYVVR22	NSYTVR22	
		800	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	NSYMP226	NSYSIMP22	NSYVVR22	NSYTVR22	
2200	800	600	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP228	NSYSIMP22	NSYVVR22	NSYTVR22	
		800	NSYSPPF8100	NSYSPPS8100	NSYSPPF8200	NSYSPPS8200	NSYMP228	NSYSIMP22	NSYVVR22	NSYTVR22	
		1000	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP2210	NSYSIMP22	NSYVVR22	NSYTVR22	
	1200	600	NSYSPPF12100	NSYSPPS6100	NSYSPPF12200	NSYSPPS6200	NSYMP2212	NSYSIMP22	NSYVVR22	NSYTVR22	
		800	NSYSPPF12100	NSYSPPS8100	NSYSPPF12200	NSYSPPS8200	NSYMP2212	NSYSIMP22	NSYVVR22	NSYTVR22	
		800	NSYSPPF12100	NSYSPPS8100	NSYSPPF12200	NSYSPPS8200	NSYMP2212	NSYSIMP22	NSYVVR22	NSYTVR22	

# Selection guide

## Steel floor-standing enclosures

SF kit

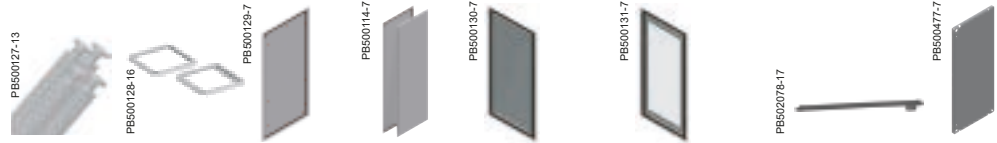


Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate	
Height (A)	Width (B)	Depth (C)										
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
	1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
800		400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		600	1	NSYSFV16	NSYSFC86	NSYBP168	NSY2SP166	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
	1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	NSYTRIM4SF	-
			500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	NSYTRIM4SF	-
			600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	NSYTRIM4SF	-
			800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	NSYTRIM4SF	-
600		400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
800		400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		600	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188	
		800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188	
		1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
			400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
500	1		NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
600	1		NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
1200	600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810		
	800	1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
	800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810		
	400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812		
500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812			
600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812			
800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812			

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

# Selection guide

## Steel floor-standing enclosures



Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate	
Height (A)	Width (B)	Depth (C)										
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	NSYTRIM3SF	-	
		600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	NSYTRIM3SF	-	
		800	1	NSYSFV20	NSYSFC38	NSYBP203	NSY2SP208	NSYSFD203	-	NSYTRIM3SF	-	
	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	NSYTRIM4SF	-	
		500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	NSYTRIM4SF	-	
		600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	NSYTRIM4SF	-	
		800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	NSYTRIM4SF	-	
	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206	
		500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206	
		600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206	
		800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206	
	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208	
		500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208	
		600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208	
		600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208	
	800	800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208	
		800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208	
		1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
			400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
	500		1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010	
	500		2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010	
	1000	600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010	
		600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010	
		800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010	
800		2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010		
1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012		
	500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012		
	600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012		
	800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012		
1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016		
	500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016		
	600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016		
2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	NSYTRIM4SF	-	
		500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	NSYTRIM4SF	-	
		600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	NSYTRIM4SF	-	
		800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	NSYTRIM4SF	-	
	600	400	1	NSYSFV22	NSYSFC64	NSYBP226	NSY2SP224	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226	
		500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226	
		600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226	
		800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226	
	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228	
		500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228	
		600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228	
		800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228	
	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210	
		500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210	
		600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210	
		800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210	
	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212	
		500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212	
		600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212	
		800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212	

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

# Selection guide

## Stainless-steel wall-mounting enclosures

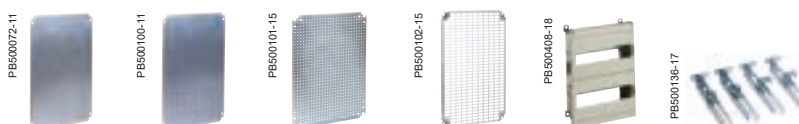


Dimensions (mm)			No. of locks	No. of doors	304L stainless-steel		316L stainless-steel	304L stainless-steel canopy	Plain mounting plate***
Height	Width	Depth			Plain door	Glazed door**	Plain door		
300	200	150	1	1	NSYS3X3215	-	NSYS3X3215H	NSYTX2015	NSYMM32
	250	150	1	1	NSYS3X302515	-	NSYS3X302515H	NSYTX2515	NSYMM3025
	300	150	1	1	NSYS3X3315	-	NSYS3X3315H	NSYTX3015	NSYMM33
400	300	150	1	1	NSYS3X4315	-	NSYS3X4315H	NSYTX3015	NSYMM43
		200	1	1	NSYS3X4320	NSYS3X4320T	NSYS3X4320H	NSYTX3020	NSYMM43
	400	200	1	1	NSYS3X4420	-	NSYS3X4420H	NSYTX4020	NSYMM44
	600	200	1	1	NSYS3X4620	-	NSYS3X4620H	NSYTX6020	NSYMM64
500	400	200	2	1	NSYS3X5420	NSYS3X5420T	NSYS3X5420H	NSYTX4020	NSYMM54
600	400	200	2	1	NSYS3X6420	NSYS3X6420T	NSYS3X6420H	NSYTX4020	NSYMM64
	600	250	2	1	NSYS3X6625	-	NSYS3X6625H	NSYTX6025	NSYMM66
	1000	300	*	2	NSYS3X601030	-	-	-	-
	1200	300	*	2	NSYS3X601230	-	-	NSYTX12030	-
700	500	250	2	1	NSYS3X7525	NSYS3X7525T	NSYS3X7525H	NSYTX5025	NSYMM75
800	600	250	2	1	NSYS3X8625	NSYS3X8625T	NSYS3X8625H	NSYTX6025	NSYMM86
	800	300	2	1	NSYS3X8830	-	NSYS3X8830H	NSYTX8030	NSYMM88
	1000	300	*	2	NSYS3X801030	-	-	-	-
	1200	300	*	2	NSYS3X801230	-	-	NSYTX12030	-
1000	800	300	2	1	NSYS3X10830	NSYS3X10830T	NSYS3X10830H	NSYTX8030	NSYMM108
	1000	300	*	2	NSYS3X101030	-	NSYS3X101030H	NSYTX10030	NSYMM1010
1200	800	300	2	1	NSYS3X12830	-	NSYS3X12830H	NSYTX8030	NSYMM128
	1000	300	*	2	NSYS3X121030	-	NSYS3X121030H	NSYTX10030	NSYMM1210

\* Three-point closure system.

\*\* The glazed door has no reinforcement.

\*\*\* See other mounting plates in common accessories.



External dimensions (mm)			No. of modules	References					Step slides
Height	Width	Depth		Mounting plate					
				Plain	Silkscreened	Microperforated	Telequick	Modular	
300	200	150	-	NSYMM32	-	NSYMF32	NSYMR32	-	-
	250	150	-	NSYMM3025	-	-	NSYMR3025	-	-
	300	150	-	NSYMM33	-	NSYMF33	NSYMR33	-	-
400	300	150	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	-
		200	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	NSYSDCR200
	400	200	-	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	NSYSDCR200
	600	200	-	NSYMM64	NSYMS64	NSYMF64	NSYMR46	-	NSYSDCR200
500	400	200	48	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDLM48	NSYSDCR200
600	400	200	48	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDLM48P	NSYSDCR200
	600	250	84	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYDLM84P	NSYSDCR250
	1000	300	-	NSYMM106	-	NSYMF106	NSYMR106	-	NSYSDCR300
	1200	300	-	NSYMM126	-	NSYMF126	-	-	NSYSDCR300
700	500	250	66	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDLM66	NSYSDCR250
800	600	250	84	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDLM84	NSYSDCR250
	800	300	-	NSYMM88	-	NSYMF88	NSYMR88	-	NSYSDCR300
	1000	300	-	NSYMM108	-	NSYMF108	NSYMR108	-	NSYSDCR300
	1200	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
1000	800	300	234	NSYMM108	-	NSYMF108	NSYMR108	NSYDLM240	NSYSDCR300
	1000	300	-	NSYMM1010	-	NSYMF1010	NSYMR1010	-	NSYSDCR300
1200	800	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
	1000	300	-	NSYMM1210	-	NSYMF1210	NSYMR1210	-	NSYSDCR300

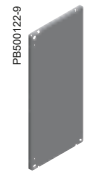
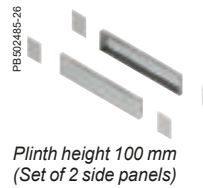
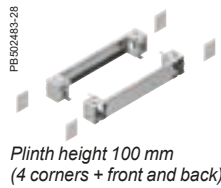


# Selection guide

## Stainless-steel floor-standing enclosures



### Stainless-steel floor-standing monobloc



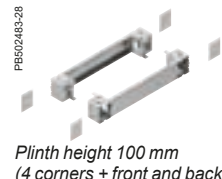
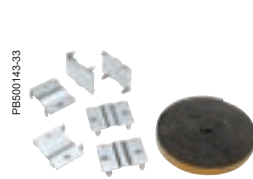
Dimensions (mm)			Number of front doors	Stainless-steel floor-standing enclosure 304L / 316L*	Brushed 304L / 316L* stainless-steel plinth height 100 mm**		Brushed 304L / 316L* stainless-steel plinth height 200 mm**		Plain mounting plate***
Height	Width	Depth			Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	
1400	1000	300	2	NSYSMX141030	NSYSPFX10100	NSYSPSX3100	NSYSPFX10200	NSYSPSX3200	NSYMP1410
1600	800	400	1	NSYSMX16840	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYMP168
1800	600	400	1	NSYSMX18640	-	NSYSPSX4100	-	NSYSPSX4200	NSYMP186
	800	400	1	NSYSMX18840*	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYMP188
	1200	400	2	NSYSMX181240*	NSYSPFX12100	NSYSPSX4100	NSYSPFX12200	NSYSPSX4200	NSYMP1812
	1600	400	2	NSYSMX181640*	NSYSPFX16100	NSYSPSX4100	NSYSPFX16200	NSYSPSX4200	NSYMP1816
2000	800	500	1	NSYSMX20850	NSYSPFX8100	NSYSPSX5100	NSYSPFX8200	NSYSPSX5200	NSYMP208
	1000	400	2	NSYSMX201040*	NSYSPFX10100	NSYSPSX4100	NSYSPFX10200	NSYSPSX4200	NSYMP2010
	1200	500	2	NSYSMX201250*	NSYSPFX12100	NSYSPSX5100	NSYSPFX12200	NSYSPSX5200	NSYMP2012
	1600	600	2	NSYSMX201660*	NSYSPFX16100	NSYSPSX6100	NSYSPFX16200	NSYSPSX6200	NSYMP2016

\* For version in AISI 316L stainless steel, add the lettre H to the end of the reference. Example NSYSMX18840H.

\*\* See section on stainless-steel composition accessories. - \*\*\* See other mounting plates in common accessories.



### Stainless-steel floor-standing suitable

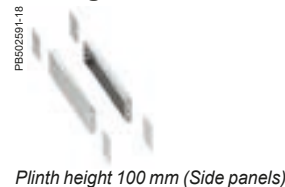
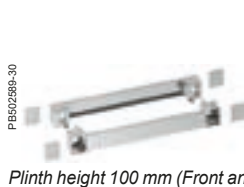


Dimensions (mm)			No. of front doors	References in 304L stainless steel (1)			Brushed 304L stainless-steel plinth height 100 mm (2)		Brushed 304L stainless-steel plinth height 200 mm (2)		Plain mounting plate (3)
H	W	D		Suitable enclosure	Set of 2 side panels	Coupling kit	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Side Set of 2 side panels (x2)	
1800	600	400	1	NSYSFX18640	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX6100	NSYSPSX4100SF	NSYSPFX6200	NSYSPSX4200SF	NSYMP186
	800	400	1	NSYSFX18840	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF	NSYMP188
	1200	400	2	NSYSFX181240	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX12100	NSYSPSX4100SF	NSYSPFX12200	NSYSPSX4200SF	NSYMP1812
2000	600	500	1	NSYSFX20650	NSY2SPX205	NSYSFBK19 + NSYSFXJG	NSYSPFX6100	NSYSPSX5100SF	NSYSPFX6200	NSYSPSX5200SF	NSYMP206
	800	400	1	NSYSFX20840	NSY2SPX204	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF	NSYMP208
	600	1	NSYSFX20860	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX6100SF	NSYSPFX8200	NSYSPSX6200SF	NSYMP208	
	1000	600	2	NSYSFX201060	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX10100	NSYSPSX6100SF	NSYSPFX10200	NSYSPSX6200SF	NSYMP2010
	1200	600	2	NSYSFX201260	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX12100	NSYSPSX6100SF	NSYSPFX12200	NSYSPSX6200SF	NSYMP2012

(1) 316L stainless-steel enclosures on request. - (2) See section on stainless-steel composition accessories. - (3) See other mounting plates in common accessories.



### Stainless-steel floor-standing suitable



Dimensions (mm)			References	Number of front doors	304L stainless-steel plinth, height 100 mm (1)		304L stainless-steel plinth, height 200 mm (1)		Plain mounting plate (2)
Height	Width	Depth			Front and rear	side panels	Front and rear	side panels	
1000	600	500	NSYSDX6	1	NSYSPFX6100	NSYSPSX5100	NSYSPFX6200	2 x NSYSPSX5100	NSYPMP8560
	800	500	NSYSDX8	1	NSYSPFX8100	NSYSPSX5100	NSYSPFX8200	2 x NSYSPSX5100	NSYPMP8580
	1000	500	NSYSDX10	2	NSYSPFX10100	NSYSPSX5100	NSYSPFX10200	2 x NSYSPSX5100	NSYPMP85100
	1200	500	NSYSDX12	2	NSYSPFX12100	NSYSPSX5100	NSYSPFX12200	2 x NSYSPSX5100	NSYPMP85120

(1) See section on stainless-steel composition accessories. - (2) See other mounting plates in common accessories.

**!** Stainless-steel plinths (standard plinths pages 128 and 129, ventilated plinths page 377) are compatible with steel offer using an earthing cable reference NSYEL226D13 (description page 278) to be ordered separately.

# Selection guide

## Polyester wall-mounting enclosures

### Polyester wall-mounting enclosures IP66



Dimensions (mm)			ABS/PC wall-mounting enclosures IP66		Polyester wall-mounting enclosures IP66			
Height	Width	Depth	Plain door	Transp. door	Plain door	Transp. door	Plain door 3-point closure	Transp. door 3-point closure
Page 159								
310	215	160	<b>NSYPLM32G</b>	<b>NSYPLM32TG</b>	-	-	-	-
308	255	160	-	-	<b>NSYPLM3025G</b>	<b>NSYPLM3025TG</b>	-	-
430	330	200	-	-	<b>NSYPLM43G</b>	<b>NSYPLM43TG</b>	<b>NSYPLM43VG</b>	<b>NSYPLM43TVG</b>
530	430	200	-	-	<b>NSYPLM54G</b>	<b>NSYPLM54TG</b>	<b>NSYPLM54VG</b>	<b>NSYPLM54TVG</b>
647	436	250	-	-	<b>NSYPLM64G</b>	<b>NSYPLM64TG</b>	<b>NSYPLM64VG</b>	<b>NSYPLM64TVG</b>
747	536	300	-	-	<b>NSYPLM75G</b>	<b>NSYPLM75TG</b>	<b>NSYPLM75VG</b>	<b>NSYPLM75TVG</b>
847	636	300	-	-	<b>NSYPLM86G</b>	<b>NSYPLM86TG</b>	<b>NSYPLM86VG</b>	<b>NSYPLM86TVG</b>
1056	852	350	-	-	<b>NSYPLM108G</b>	<b>NSYPLM108TG</b>	-	-

# Selection guide

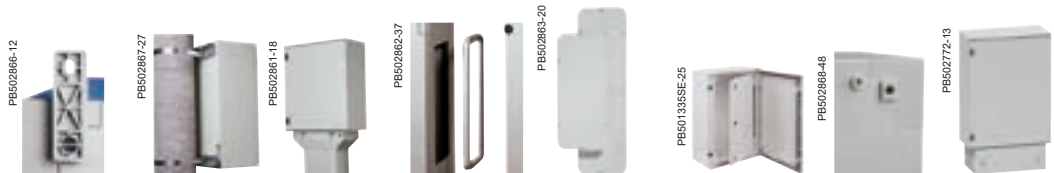
## Polyester wall-mounting enclosures

### Mounting accessories



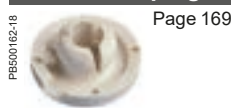
Dimensions (mm)			Metallic mounting plates				Insulating mounting plates		Modular distribution chassis	Step slides	Symmetrical DIN rail
Height	Width	Depth	Plain	Silkscreened	Microperforated	Telequick	Bakelite	Polyester			
			Page 206				Page 207		Page 170	Page 168	
310	215	160	NSYMM32	-	-	NSYMR32	NSYMB32	NSYMPP32	-	-	NSYCS200PLM
308	255	160	NSYMM3025	-	-	NSYMR3025	NSYMB3025	NSYMPP3025	NSYDLPLM18G	-	-
430	330	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMPP43	NSYDLA24G	NSYDPLM200	NSYCS300PLM
530	430	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMPP54	NSYDLA48G	NSYDPLM200	NSYCS400PLM
647	436	250	NSYMM64	NSYMS46	NSYMF64	NSYMR64	NSYMB64	NSYMPP64	NSYDLA48PG	NSYDPLM250	NSYCS400PLM
747	536	300	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMPP75	NSYDLA66G and NSYDLA88G	NSYDPLM300	NSYCS500PLM
847	636	300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMPP86	NSYDLA84G and NSYDLA112G	NSYDPLM300	NSYCS600PLM
1056	852	350	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMPP108	NSYDLA234G	NSYDPLM350	NSYCS800PLM

### Main accessories



Dimensions (mm)			Fixing lugs	Post-fixing device	Floor-mounting pillar	Coupling frame	Cable-gland plate	Internal door	Blanking plates	Plinth ZM RAL 7032
Height	Width	Depth	Page 164			Page 169		Page 165	Page 164	Page 163
310	215	160	NSYPFPLM32G	-	-	-	-	-	NSYCEPLMAG	-
308	255	160	NSYPFPLMG	-	-	-	-	NSYPA3025PLMG	-	-
430	330	200	NSYPFPLMG	NSYSFP300	-	-	-	NSYPAP43G	NSYCEPLMBG	-
530	430	200	NSYPFPLMG	NSYSFP400	NSYSFSPLMG	-	-	NSYPAP54G	NSYCEPLMBG	-
647	436	250	NSYPFPLMG	NSYSFP400	NSYSFSPLMG	-	-	NSYPAP64G	NSYCEPLMCG	-
747	536	300	NSYPFPLMG	NSYSFP500	-	NSYBUPLMG	NSYTLA4420G	NSYPAP75G	NSYCEPLMCG	NSYZM253G
847	636	300	NSYPFPLMG	NSYSFP600	-	NSYBUPLMG	NSYTLA4420G	NSYPAP86G	NSYCEPLMCG	NSYZM263G
1056	852	350	NSYPFPLMG	-	-	NSYBU108PLMG	NSYTLA6420G	NSYPAP108G	-	NSYZM283G

#### Water drain plug



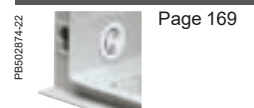
Page 169

#### Rail-fixing nuts



Page 168

#### Ventilation louvre



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# Selection guide

## Polyester floor-standing enclosures

PB50289F-22



PB50289B-23



PB50289B-21



Dimensions (mm)				Completely sealed enclosures, IP65		Enclosures with open bottom part, IP54
<b>References of enclosures with door</b>						
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Glazed <sup>(1)</sup>	Plain
500	500	320	1	NSYPLA553G	NSYPLA553TG	NSYPLAZ553G
		420	1	NSYPLA554G	NSYPLA554TG	NSYPLAZ554G
	750	320	1	NSYPLA573G	NSYPLA573TG	NSYPLAZ573G
		420	1	NSYPLA574G	NSYPLA574TG	NSYPLAZ574G
	1000	320	2	NSYPLA5103G	NSYPLA5103TG	NSYPLAZ5103G
		420	2	NSYPLA5104G	NSYPLA5104TG	NSYPLAZ5104G
	1250	320	2	NSYPLA5123G	NSYPLA5123TG	NSYPLAZ5123G
		420	2	NSYPLA5124G	NSYPLA5124TG	NSYPLAZ5124G
750	500	320	1	NSYPLA753G	NSYPLA753TG	NSYPLAZ753G
		420	1	NSYPLA754G	NSYPLA754TG	NSYPLAZ754G
	750	320	1	NSYPLA773G	NSYPLA773TG	NSYPLAZ773G
		420	1	NSYPLA774G	NSYPLA774TG	NSYPLAZ774G
	1000	620	1	NSYPLA776G	NSYPLA776TG	NSYPLAZ776G
		320	2	NSYPLA7103G	NSYPLA7103TG	NSYPLAZ7103G
	1250	420	2	NSYPLA7104G	NSYPLA7104TG	NSYPLAZ7104G
		320	2	NSYPLA7123G	NSYPLA7123TG	NSYPLAZ7123G
420	2	NSYPLA7124G	NSYPLA7124TG	NSYPLAZ7124G		
	1000	500	320	1	NSYPLA1053G	NSYPLA1053TG
420			1	NSYPLA1054G	NSYPLA1054TG	NSYPLAZ1054G
750		320	1	NSYPLA1073G	NSYPLA1073TG	NSYPLAZ1073G
		420	1	NSYPLA1074G	NSYPLA1074TG	NSYPLAZ1074G
1000		320	2	NSYPLA10103G	NSYPLA10103TG	NSYPLAZ10103G
		420	2	NSYPLA10104G	NSYPLA10104TG	NSYPLAZ10104G
1250		320	2	NSYPLA10123G	NSYPLA10123TG	NSYPLAZ10123G
		420	2	NSYPLA10124G	NSYPLA10124TG	NSYPLAZ10124G
1250	500	320	1	NSYPLA1253G	NSYPLA1253TG	NSYPLAZ1253G
		420	1	NSYPLA1254G	NSYPLA1254TG	NSYPLAZ1254G
	750	320	1	NSYPLA1273G	NSYPLA1273TG	NSYPLAZ1273G
		420	1	NSYPLA1274G	NSYPLA1274TG	NSYPLAZ1274G
	1000	620	1	NSYPLA1276G	NSYPLA1276TG	NSYPLAZ1276G
		320	2	NSYPLA12103G	NSYPLA12103TG	NSYPLAZ12103G
	1250	420	2	NSYPLA12104G	NSYPLA12104TG	NSYPLAZ12104G
		320	2	NSYPLA12123G	NSYPLA12123TG	NSYPLAZ12123G
420	2	NSYPLA12124G	NSYPLA12124TG	NSYPLAZ12124G		
620	2	NSYPLA12126G	NSYPLA12126TG	NSYPLAZ12126G		
	1500	500	320	1	NSYPLA1553G	NSYPLA1553TG
420			1	NSYPLA1554G	NSYPLA1554TG	NSYPLAZ1554G
750		320	1	NSYPLA1573G	NSYPLA1573TG	NSYPLAZ1573G
		420	1	NSYPLA1574G	NSYPLA1574TG	NSYPLAZ1574G
1000		620	1	NSYPLA1576G	NSYPLA1576TG	NSYPLAZ1576G
		320	2	NSYPLA15103G	NSYPLA15103TG	NSYPLAZ15103G
1250		420	2	NSYPLA15104G	NSYPLA15104TG	NSYPLAZ15104G
		320	2	NSYPLA15123G	NSYPLA15123TG	NSYPLAZ15123G
420	2	NSYPLA15124G	NSYPLA15124TG	NSYPLAZ15124G		
620	2	NSYPLA15126G	NSYPLA15126TG	NSYPLAZ15126G		
2000	750	420	2*	NSYPLA2074G	NSYPLA2074TG	NSYPLAZ2074G

\* Two doors in vertical.

<sup>(1)</sup> Recommended to protect against the direct sun radiation.

# Selection guide

## Polyester floor-standing enclosures

PB502900-21



PB502901-19



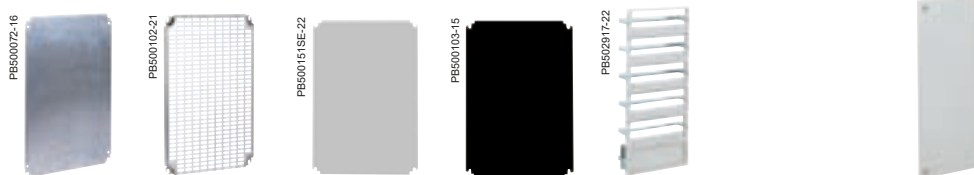
Dimensions (mm)				Enclosures with ventilated canopy, IP44	Enclosures with open bottom part and ventilated canopy, IP44	
<b>References of enclosures with door</b>						
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Plain	
500	500	320	1	NSYPLAT553G	NSYPLAZT553G	
		420	1	NSYPLAT554G	NSYPLAZT554G	
	750	320	1	NSYPLAT573G	NSYPLAZT573G	
		420	1	NSYPLAT574G	NSYPLAZT574G	
	1000	320	2	NSYPLAT5103G	NSYPLAZT5103G	
		420	2	NSYPLAT5104G	NSYPLAZT5104G	
	1250	320	2	NSYPLAT5123G	NSYPLAZT5123G	
		420	2	NSYPLAT5124G	NSYPLAZT5124G	
750	500	320	1	NSYPLAT753G	NSYPLAZT753G	
		420	1	NSYPLAT754G	NSYPLAZT754G	
	750	320	1	NSYPLAT773G	NSYPLAZT773G	
		420	1	NSYPLAT774G	NSYPLAZT774G	
		620	1	NSYPLAT776G	NSYPLAZT776G	
	1000	320	2	NSYPLAT7103G	NSYPLAZT7103G	
		420	2	NSYPLAT7104G	NSYPLAZT7104G	
	1250	320	2	NSYPLAT7123G	NSYPLAZT7123G	
		420	2	NSYPLAT7124G	NSYPLAZT7124G	
	1000	500	320	1	NSYPLAT1053G	NSYPLAZT1053G
			420	1	NSYPLAT1054G	NSYPLAZT1054G
		750	320	1	NSYPLAT1073G	NSYPLAZT1073G
420			1	NSYPLAT1074G	NSYPLAZT1074G	
1000		320	2	NSYPLAT10103G	NSYPLAZT10103G	
		420	2	NSYPLAT10104G	NSYPLAZT10104G	
1250		320	2	NSYPLAT10123G	NSYPLAZT10123G	
		420	2	NSYPLAT10124G	NSYPLAZT10124G	
1250		500	320	1	NSYPLAT1253G	NSYPLAZT1253G
			420	1	NSYPLAT1254G	NSYPLAZT1254G
	750	320	1	NSYPLAT1273G	NSYPLAZT1273G	
		420	1	NSYPLAT1274G	NSYPLAZT1274G	
		620	1	NSYPLAT1276G	NSYPLAZT1276G	
	1000	320	2	NSYPLAT12103G	NSYPLAZT12103G	
		420	2	NSYPLAT12104G	NSYPLAZT12104G	
	1250	320	2	NSYPLAT12123G	NSYPLAZT12123G	
		420	2	NSYPLAT12124G	NSYPLAZT12124G	
		620	2	NSYPLAT12126G	NSYPLAZT12126G	
	1500	500	320	1	NSYPLAT1553G	NSYPLAZT1553G
			420	1	NSYPLAT1554G	NSYPLAZT1554G
		750	320	1	NSYPLAT1573G	NSYPLAZT1573G
			420	1	NSYPLAT1574G	NSYPLAZT1574G
620			1	NSYPLAT1576G	NSYPLAZT1576G	
1000		320	2	NSYPLAT15103G	NSYPLAZT15103G	
		420	2	NSYPLAT15104G	NSYPLAZT15104G	
1250		320	2	NSYPLAT15123G	NSYPLAZT15123G	
		420	2	NSYPLAT15124G	NSYPLAZT15124G	
		620	2	NSYPLAT15126G	NSYPLAZT15126G	
2000		750	420	2*	NSYPLAT2074G	NSYPLAZT2074G

\* Two doors in vertical.

# Selection guide

## Polyester floor-standing enclosures

### Mounting accessories



Dimensions (mm)			Metallic mounting plates		Insulating mounting plates		Modular distribution chassis		Internal door
Height	Width	N° of doors	Plain	Telequick	Polyester	Bakelite			
			Page 190		Page 190		Page 192		Page 188
500	500	1	NSYPMM55	NSYPMR55	NSYPMA55	NSYPMB55	-	-	NSYPAPLA55G
	750	1	NSYPMM75	NSYPMR57	NSYPMA75	NSYPMB75	-	-	NSYPAPLA57G
	1000	2	NSYPMM510	2 x NSYPMR55	NSYPMA510	NSYPMB510	-	-	2 x NSYPAPLA55G
	1250	2	NSYPMM55 + NSYPMM75	NSYPMR55 + NSYPMR57	NSYPMA55 + NSYPMA75	NSYPMB55 + NSYPMB75	-	-	NSYPAPLA55G + NSYPAPLA57G
750	500	1	NSYPMM75	NSYPMR75	NSYPMA75	NSYPMB75	NSYDLP76G	NSYDLP57G	NSYPAPLA75G
	750	1	NSYPMM77	NSYPMR77	NSYPMA77	NSYPMB77	NSYDLP132G	NSYDLP99G	NSYPAPLA77G
	1000	2	NSYPMM710	2 x NSYPMR75	NSYPMA710	NSYPMB710	2 x NSYDLP76G	2 x NSYDLP57G	2 x NSYPAPLA75G
	1250	2	NSYPMM712	NSYPMR75 + NSYPMR77	NSYPMA712	NSYPMB712	NSYDLP76G + NSYDLP132G	NSYDLP57G + NSYDLP99G	NSYPAPLA75G + NSYPAPLA77G
1000	500	1	NSYPMM105	NSYPMR105	NSYPMA105	NSYPMB105	NSYDLP114G	NSYDLP95G	NSYPAPLA105G
	750	1	NSYPMM107	NSYPMR107	NSYPMA107	NSYPMB107	NSYDLP198G	NSYDLP165G	NSYPAPLA107G
	1000	2	NSYPMM1010	2 x NSYPMR105	NSYPMA1010	NSYPMB1010	2 x NSYDLP114G	2 x NSYDLP95G	2 x NSYPAPLA105G
	1250	2	NSYPMM1012	NSYPMR105 + NSYPMR107	NSYPMA1012	NSYPMB1012	NSYDLP114G + NSYDLP198G	NSYDLP95G + NSYDLP165G	NSYPAPLA105G + NSYPAPLA107G
1250	500	1	NSYPMM125	NSYPMR125	NSYPMA125	NSYPMB125	NSYDLP133G	NSYDLP114PG	NSYPAPLA125G
	750	1	NSYPMM127	NSYPMR127	NSYPMA127	NSYPMB127	NSYDLP231G	NSYDLP198PG	NSYPAPLA127G
	1000	2	NSYPMM1210	2 x NSYPMR125	NSYPMA1210	NSYPMB1210	2 x NSYDLP133G	2 x NSYDLP114PG	2 x NSYPAPLA125G
	1250	2	NSYPMM1212	NSYPMR125 + NSYPMR127	NSYPMA1212	NSYPMB1212	NSYDLP133G + NSYDLP231G	NSYDLP114PG + NSYDLP198PG	NSYPAPLA125G + NSYPAPLA127G
1500	500	1	NSYPMM155	NSYPMR155	-	NSYPMB155	NSYDLP171G	NSYDLP152G	NSYPAPLA155G
	750	1	NSYPMM157	NSYPMR157	-	NSYPMB157	NSYDLP297G	NSYDLP264G	NSYPAPLA157G
	1000	2	NSYPMM1510	2 x NSYPMR155	-	NSYPMB1510	2 x NSYDLP171G	2 x NSYDLP152G	2 x NSYPAPLA155G
	1250	2	NSYPMM1512	NSYPMR155 + NSYPMR157	-	NSYPMB1512	NSYDLP171G + NSYDLP297G	NSYDLP152G + NSYDLP264G	NSYPAPLA155G + NSYPAPLA157G
2000	750	2	NSYPMM207	2 x NSYPMR107	2 x NSYPMA107	2 x NSYPMB107	-	-	-

#### Step slides

PB500176-20



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#### Uprights and mounting rails

PB500177-40



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#### Door retainer

PB5002913-18

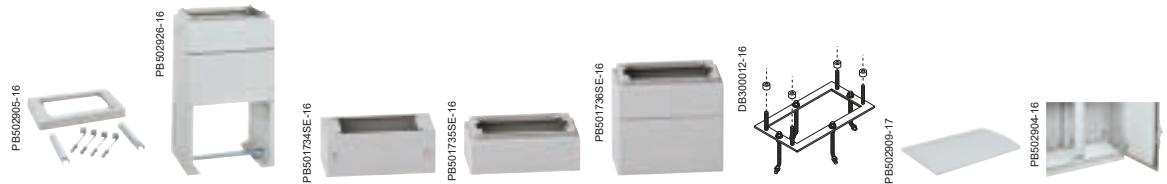


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# Selection guide

## Polyester floor-standing enclosures

### Composition accessories



Dimensions (mm)		N plinth	H plinth	ZA plinth	ZZ plinth		Floor-fixing frame	Canopy	Cable-entry plate
Width	Depth	Height 60 mm	Height 900 mm	Height 200 mm	Height 200 mm	Height 500 mm			
		Page 185	Page 187	Page 184	Page 186		Page 187	Page 183	Page 183
500	320	NSYZNPLA53G	NSYZHPLA53G	NSYZA253G	NSYZZ253G	NSYZZ553G	NSYMFPLAZ53	NSYTJPLA53G	NSYECPLAZ53G
	420	NSYZNPLA54G	NSYZHPLA54G	NSYZA254G	NSYZZ254G	NSYZZ554G	NSYMFPLAZ54	NSYTJPLA54G	NSYECPLAZ54G
750	320	NSYZNPLA73G	NSYZHPLA73G	NSYZA273G	NSYZZ273G	NSYZZ573G	NSYMFPLAZ73	NSYTJPLA73G	NSYECPLAZ73G
	420	NSYZNPLA74G	NSYZHPLA74G	NSYZA274G	NSYZZ274G	NSYZZ574G	NSYMFPLAZ74	NSYTJPLA74G	NSYECPLAZ74G
	620	-	-	NSYZA276G	NSYZZ276G	-	NSYMFPLAZ76	NSYTJPLA76G	NSYECPLAZ76G
1000	320	NSYZNPLA103G	NSYZHPLA103G	NSYZA2103G	NSYZZ2103G	NSYZZ5103G	NSYMFPLAZ103	NSYTJPLA103G	NSYECPLAZ103G
	420	NSYZNPLA104G	NSYZHPLA104G	NSYZA2104G	NSYZZ2104G	NSYZZ5104G	NSYMFPLAZ104	NSYTJPLA104G	NSYECPLAZ104G
1250	320	NSYZNPLA123G	NSYZHPLA123G	NSYZA2123G	NSYZZ2123G	NSYZZ5123G	NSYMFPLAZ123	NSYTJPLA123G	NSYECPLAZ123G
	420	NSYZNPLA124G	NSYZHPLA124G	NSYZA2124G	NSYZZ2124G	NSYZZ5124G	NSYMFPLAZ124	NSYTJPLA124G	NSYECPLAZ124G
	620	-	-	NSYZA2126G	NSYZZ2126G	-	NSYMFPLAZ126	NSYTJPLA126G	NSYECPLAZ126G

### VDI accessories



Dimensions (mm)		19" fixed chassis		19" swing chassis	
Height	Width	References	Number of U	References	Number of U
		Page 197		Page 197	
500	750	NSYBRF8PLAG	8	NSYBRP7PLAG	7
750	750	NSYBRF12PLAG + NSYSPLA75	12	NSYBRP11PLAG + NSYSPLA75	11
1000	750	NSYBRF17PLAG + NSYSPLA100	17	NSYBRP16PLAG + NSYSPLA100	16
1250	750	NSYBRF21PLAG + NSYSPLA125	21	NSYBRP20PLAG + NSYSPLA125	20
1500	750	NSYBRF26PLAG + NSYSPLA150*	26	NSYBRP25PLAG + NSYSPLA150*	25
2000	750	2 x NSYBRF17PLAG + 2 x NSYSPLA100 + NSYPTZ4	2 x 17	2 x NSYBRP16PLAG + 2 x NSYSPLA100	2 x 16

\* not compatible with NSYCAAPVHD.

**Door switch**  
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**Insert**  
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**Document pocket**  
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**VDI accessories and fixings**  
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**Coupling Kit**  
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**Anti-graffiti paint**  
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# Steel industrial boxes



# Steel industrial boxes

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PB500198-13



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PB503351-20



### **Spacial SBM Steel industrial boxes** **36**

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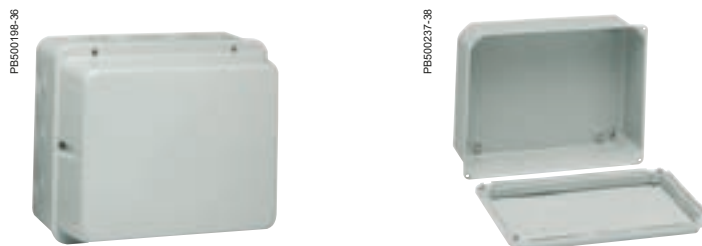
Common accessories overview 41

Mounting accessories 42

Fixing accessories 44

# Metallic junction boxes

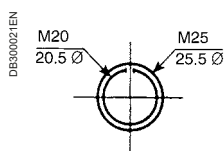
## Characteristics



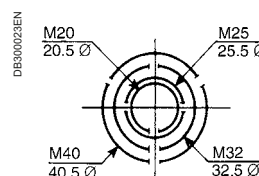
Characteristics	Metallic junction boxes
	<ul style="list-style-type: none"> <li>■ PVC sealing gasket on sizes up to 20/15 and a rubber gasket for &gt; 25/20.</li> <li>■ Back ready for threaded drill holes for fixing equipment. From size 15/10 and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate.</li> <li>■ With low cover.</li> <li>■ The SDB series consists of 2 basic models:               <ul style="list-style-type: none"> <li>□ without knock-outs: <b>NSYDB●●●</b></li> <li>□ with knock-outs: <b>NSYDB●●●M</b> with low cover.</li> </ul> </li> </ul>
Material	Sheet steel
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK07 according to IEC 62262
Installation	Indoor installation: direct wall-mounting by means of drill holes fitted with plastic plugs to ensure sealing Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion).

## Dimensions

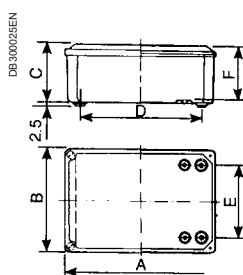
Models	External dimensions (mm)			Models without knock-outs	Models with knock-outs, no. of drill holes, knock-outs and group	Dimensions (mm)			Weight (kg)		
	Height (A)	Width (B)	Depth (C)			References	References	Height (A)		Width (B)	D
Low cover	85	85	49	<b>NSYDBN88</b>	<b>NSYDB88M</b>	1 n° 1	1 n° 1	58	58	-	0.18
	105	105	49	<b>NSYDBN1010</b>	<b>NSYDB1010M</b>	2 n° 1	1 n° 1	76	76	-	0.25
	155	105	61	<b>NSYDBN1510</b>	<b>NSYDB1510M</b>	3 n° 1	1 n° 1	124	74	56	0.38
	206	156	83	<b>NSYDBN2015</b>	<b>NSYDB2015M</b>	3 n° 2	2 n° 2	172	122	78	1
	256	206	93	<b>NSYDBN2520</b>	-	-	-	220	170	88	1.5
	307	257	116	<b>NSYDBN3025</b>	-	-	-	268	218	110	3.3



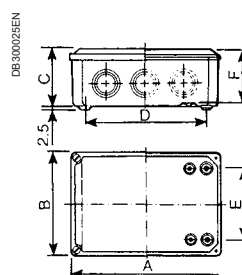
Group n° 1



Group n° 2



NSYDBN●●●








NSYDB●●●M

# Metallic junction boxes

## Characteristics

### Conversions of standard lock into normalised solutions

Type and size		Operated with a key		References
 Square insert	□ 6 mm	LC-7	 DE300027-9	NSYTC6CRN
	□ 7 mm	LC-7		NSYTC7CRN
	□ 8 mm	LC-8		NSYTC8CRN
 Triangular insert	▲ 6 mm	LT-8	 DE300028-10	NSYTT6CRN
	▲ 7 mm	LT-8		NSYTT7CRN
	▲ 8 mm	LT-8		NSYTT8CRN
405 key-type lock			 DE300029-6	NSYCL405CRN

### Plain mounting plate

Boxes SDB		Plain mounting plate		
Dimensions (mm)		References	Dimensions (mm)	
H	W		H	W
155	105	NSYPMD1510	136	88
206	156	NSYPMD2015	184	136
256	206	NSYPMD2520	234	184
307	257	NSYPMD3025	232	282

# Steel industrial boxes

## Introduction

> Simplicity, ergonomics and versatility, it's all in the box.

PB503350-61



PB503349-17



### Selection

- 1 version: flat box (SBM).
- 80 mm and 120 mm depth.
- FL21 cable entries available according to the version.

PB503350-30



### Modularity

- 28 sizes available.

PB303963-21



### Ergonomics

- Cover opening and accessory mounting with just a screwdriver.

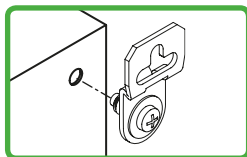
PB503351-20



### Sturdy and good ingress protection

- Mechanical protection rating up to IK10.
- Ingress protection rating up to IP66.

DB300080



### Easy installation

- Direct mounting through the rear.
- Mounting with versatile external lugs.

PB503351-20



### Added value to your work

- Quality and aesthetics.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

# Steel industrial boxes

## Characteristics



Characteristics	Spacial SBM Flat box
	<p>Box with plain faces.</p> <p><b>Box body</b> Single-piece body (cross-shaped structure). Front design incorporating folded gutters. Flat rear. 2 (or 3*) drilled profiles for installing mounting plates and DIN rails, with mounting centres of 12.5 mm. 2 or more FL21 cable gland plates (1) for easy drilling and to maximum access area, delivered with the enclosure.</p> <p><b>Box cover</b> Equipped with 2, 3, 4 or 6 half-turn thread screws, according to the version (2) to ensure maximum watertightness. Bus boxes equipped with cover hinges for a comfortable 180° door opening. Polyurethane sealing gasket.</p> <p><b>Protection of personnel</b> Ground connection mandatory for all boxes: Spacial SBM steel boxes are equipped with a M6 x 16 ground stud welded in the cover, to be linked with the body for equipotential connection. Grounding strap to be ordered separately (Ø 6.4 mm terminal).</p>
Material	Sheet steel
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	<ul style="list-style-type: none"> <li>■ IP66 according to IEC 60529</li> <li>■ Type 4, 4X according to UL 50, 50E</li> </ul>
Mechanical protection rating	IK10 according to IEC 62262
Standard	Compliance with enclosure standard IEC 62208 and the RoHS directive
Certifications (see page 574)	<ul style="list-style-type: none"> <li>■ UL, BV, DNV, LR, GL</li> <li>■ Fire class: M0 (EN 13501-1)</li> </ul>
Installation	<p><b>Indoor installation</b> Direct wall-mounting (4 x Ø 10 mm holes) or with the help of mounting lugs installed from the outside (to be ordered separately, see the specific accessory pages).</p> <p><b>Outdoor installation</b> Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is mandatory to place the box under shelter to avoid water accumulation on the upper part of the enclosure</p>
Maximum load	Loading capacity on the body: 50 kg/m <sup>2</sup>
Other characteristics	<p><b>Vibration constraints</b> Specific construction of the Spacial SBM - Single-piece body (rectangular structure). The rear is flat without added parts - this ensures compliance with certain vibration constraints.</p> <p><b>Seismic constraint</b> The seismic behavior of the industrial boxes Spacial SBM have been qualified according to MRI spectra "big material" specified in the standard IEC 60068-2-6 and IEC 60068-2-57 (see page 386 for more details). Tested enclosure configuration:</p> <ul style="list-style-type: none"> <li>■ Plain door,</li> <li>■ Plain mounting plate with a load of 200 kg/m<sup>2</sup> uniformly distributed on the mounting plate,</li> <li>■ Fixing to the wall with M8 screws (tightening torque: 12 Nm ± 1 Nm).</li> </ul> <p>Level of the seismic behavior obtained:</p> <ul style="list-style-type: none"> <li>■ 1G for boxes with the following dimensions: <ul style="list-style-type: none"> <li>□ height = 400 mm and width ≥ 500 mm</li> <li>□ height = 300 mm and width ≥ 600 mm</li> <li>□ height = 200 mm and width ≥ 800 mm</li> </ul> </li> <li>■ 3G for other dimension</li> </ul>

\* 3 profiles for width 800 mm.

(1) Only on Entry boxes and Bus boxes.

(2) 2 for Bus box (3 screws for width greater than 400 mm), 4 for Flat and Entry boxes (6 screws for width greater than 400 mm).

# Steel industrial boxes

## Technical characteristics

Box			SBM	Power dissipation*	Sheet thickness
Height (mm)	Width (mm)	Depth (mm)		(W)	(mm)
150	150	80	NSYSBM15158	13.5	10/10 <sup>e</sup>
		120	NSYSBM151512	17.2	10/10 <sup>e</sup>
	200	80	NSYSBM15208	16.6	10/10 <sup>e</sup>
		120	NSYSBM152012	20.8	10/10 <sup>e</sup>
	300	80	NSYSBM15308	22.8	10/10 <sup>e</sup>
		120	NSYSBM153012	28.1	10/10 <sup>e</sup>
	400	80	NSYSBM15408	29.0	10/10 <sup>e</sup>
		120	NSYSBM154012	35.3	10/10 <sup>e</sup>
200	200	80	NSYSBM20208	20.6	10/10 <sup>e</sup>
		120	NSYSBM202012	25.6	10/10 <sup>e</sup>
	300	80	NSYSBM20308	28.2	10/10 <sup>e</sup>
		120	NSYSBM203012	34.2	10/10 <sup>e</sup>
	400	80	NSYSBM20408	35.7	10/10 <sup>e</sup>
		120	NSYSBM204012	42.8	10/10 <sup>e</sup>
	500	80	NSYSBM20508	43.3	12/10 <sup>e</sup>
		120	NSYSBM205012	51.4	12/10 <sup>e</sup>
	600	80	NSYSBM20608	50.8	12/10 <sup>e</sup>
		120	NSYSBM206012	60.1	12/10 <sup>e</sup>
	800	120	NSYSBM208012	77.3	12/10 <sup>e</sup>
	300	300	120	NSYSBM303012	46.4
400		120	NSYSBM304012	57.8	10/10 <sup>e</sup>
500		120	NSYSBM305012	69.1	12/10 <sup>e</sup>
600		120	NSYSBM306012	80.4	12/10 <sup>e</sup>
800		120	NSYSBM308012	103.0	12/10 <sup>e</sup>
400	400	120	NSYSBM404012	72.7	10/10 <sup>e</sup>
	500	120	NSYSBM405012	86.7	12/10 <sup>e</sup>
	600	120	NSYSBM406012	100.7	12/10 <sup>e</sup>
	800	120	NSYSBM408012	128.7	12/10 <sup>e</sup>

\* Power dissipation calculated for a box mounted on a wall, at external temperature 25°C and maximum internal temperature 55°C.

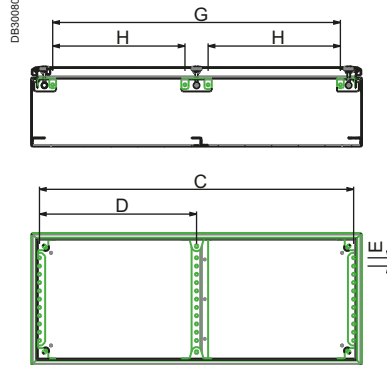
# Steel industrial boxes

## Dimensions

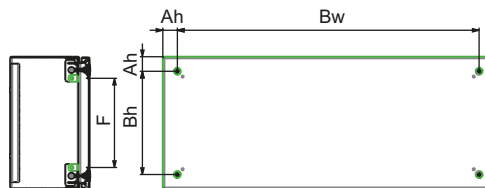
### External mounting of the box and mounting accessories

Box		Mounting								
Height (mm)	Width (mm)	Ah (mm)	Bh (mm)	Bw (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
150	150	20.5	109	109	125	-	12.5	85	85	-
	200	20.5	109	159	175	-	12.5	85	135	-
	300	20.5	109	259	275	-	12.5	85	235	-
	400	20.5	109	359	375	-	12.5	85	335	-
200	200	20.5	159	159	175	-	12.5	135	135	-
	300	20.5	159	259	275	-	12.5	135	235	-
	400	20.5	159	359	375	-	12.5	135	335	-
	500	20.5	159	459	475	-	12.5	135	435	200
	600	20.5	159	559	575	-	12.5	135	535	250
	800	20.5	159	759	775	387.5	12.5	135	735	350
300	300	20.5	259	259	275	-	12.5	235	235	-
	400	20.5	259	359	375	-	12.5	235	335	-
	500	20.5	259	459	475	-	12.5	235	435	200
	600	20.5	259	559	575	-	12.5	235	535	250
400	400	20.5	359	359	375	-	12.5	335	335	-
	500	20.5	359	459	475	-	12.5	335	435	200
	600	20.5	359	559	575	-	12.5	335	535	250
	800	20.5	359	759	775	387.5	12.5	335	735	350

Section A-A



Section B-B



# Steel industrial boxes

## Specific accessories overview

### Mounting accessories

#### Mounting plate



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#### DIN rail



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#### Post mounting



Page 43

#### Coupling kit



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### Fixing accessories

#### Mounting lugs



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#### Self-tapping screws



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#### Hinges



Page 45

#### Double-bar shaped head screw



Page 45

#### Triangle shaped head screw



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#### Sealing kit



Page 45



# Steel industrial boxes

## Common accessories overview

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### Cable management

#### Cable entries



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# Steel industrial boxes

## Mounting accessories



Characteristics				Flat box
Material				
Colour				
Ingress protection rating				
Installation				
Maximum load				
Supply				1 unit
Dimensions (mm)			Cover screws (1)	References
Height	Width	Depth	Qty	SBM
150	150	80	4	NSYSBM15158
		120	4	NSYSBM151512
	200	80	4	NSYSBM15208
		120	4	NSYSBM152012
	300	80	4	NSYSBM15308
		120	4	NSYSBM153012
	400	80	4	NSYSBM15408
		120	4	NSYSBM154012
200	200	80	4	NSYSBM20208
		120	4	NSYSBM202012
	300	80	4	NSYSBM20308
		120	4	NSYSBM203012
	400	80	4	NSYSBM20408
		120	4	NSYSBM204012
	500	80	6	NSYSBM20508
		120	6	NSYSBM205012
	600	80	6	NSYSBM20608
		120	6	NSYSBM206012
	800	120	6	NSYSBM208012
300	300	120	4	NSYSBM303012
	400	120	4	NSYSBM304012
	500	120	6	NSYSBM305012
	600	120	6	NSYSBM306012
	800	120	6	NSYSBM308012
400	400	120	4	NSYSBM404012
	500	120	6	NSYSBM405012
	600	120	6	NSYSBM406012
	800	120	6	NSYSBM408012

(1) For Bus box, divide by 2.

# Steel industrial boxes

## Mounting accessories

PB502100-20



PB502101-20



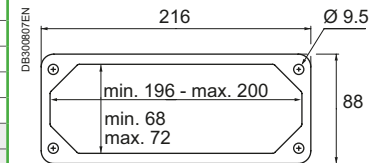
PB502099-16



PB502097-20



Mounting plate		DIN rail (2)	Post mounting	Coupling kit
-		Symmetrical DIN rails 35 x 7.5 mm.	Rail mounted externally to the rear of the box with 8 mm screws for installation on posts with diameters between 150 mm and 215 mm. For steel boxes with widths of 150, 200, 300, 400, 500, 600 and 800 mm.	Once FL21 cable openings as depicted below are made, SBM boxes can be coupled together in any combination.
Galvanised steel		Galvanised steel	Galvanised steel	-
-		-	-	-
-		-	-	IP55 according to IEC 60529
Mounting by means of 2* or 4 x Ø 5 mm self-tapping screws, Pozidriv head, ref. <b>NSYAMFSB</b> (3). Attachment points compatible with many other brands of accessories		Mounting by means of 2 x Ø 5 mm self-tapping screws, Pozidriv head, ref. <b>NSYAMFSB</b> (3)	-	For boxes bigger than 500 mm, order the same amount of units as the cable gland plate openings on the face of the box to be coupled, see table on page 38
-		-	100 kg	-
1 unit, supplied without screws		10 rails, supplied without screws	1 unit	1 gasket and necessary fixing hardware
Dimensions (mm)		References	References	References
H	W			
125	135	<b>NSYMM11SB</b>	<b>NSYAMRD15357SB</b>	<b>NSYSFPSC15</b>
125	135	<b>NSYMM11SB</b>	<b>NSYAMRD15357SB</b>	<b>NSYSFPSC15</b>
125	185	<b>NSYMM12SB</b>	<b>NSYAMRD20357SB</b>	<b>NSYSFPSC20</b>
125	185	<b>NSYMM12SB</b>	<b>NSYAMRD20357SB</b>	<b>NSYSFPSC20</b>
125	285	<b>NSYMM13SB</b>	<b>NSYAMRD30357SB</b>	<b>NSYSFPSC30</b>
125	285	<b>NSYMM13SB</b>	<b>NSYAMRD30357SB</b>	<b>NSYSFPSC30</b>
125	385	<b>NSYMM14SB</b>	<b>NSYAMRD40357SB</b>	<b>NSYSFPSC40</b>
125	385	<b>NSYMM14SB</b>	<b>NSYAMRD40357SB</b>	<b>NSYSFPSC40</b>
175	185	<b>NSYMM22SB</b>	<b>NSYAMRD20357SB</b>	<b>NSYSFPSC20</b>
175	185	<b>NSYMM22SB</b>	<b>NSYAMRD20357SB</b>	<b>NSYSFPSC20</b>
175	285	<b>NSYMM23SB</b>	<b>NSYAMRD30357SB</b>	<b>NSYSFPSC30</b>
175	285	<b>NSYMM23SB</b>	<b>NSYAMRD30357SB</b>	<b>NSYSFPSC30</b>
175	385	<b>NSYMM24SB</b>	<b>NSYAMRD40357SB</b>	<b>NSYSFPSC40</b>
175	385	<b>NSYMM24SB</b>	<b>NSYAMRD40357SB</b>	<b>NSYSFPSC40</b>
175	485	<b>NSYMM25SB</b>	<b>NSYAMRD50357SB</b>	<b>NSYSFPSC50</b>
175	485	<b>NSYMM25SB</b>	<b>NSYAMRD50357SB</b>	<b>NSYSFPSC50</b>
175	585	<b>NSYMM26SB</b>	<b>NSYAMRD60357SB</b>	<b>NSYSFPSC60</b>
175	585	<b>NSYMM26SB</b>	<b>NSYAMRD60357SB</b>	<b>NSYSFPSC60</b>
175	785	<b>NSYMM28SB</b>	<b>NSYAMRD80357SB</b>	<b>NSYSFPSC80</b>
275	285	<b>NSYMM33SB</b>	<b>NSYAMRD30357SB</b>	<b>NSYSFPSC30</b>
275	385	<b>NSYMM34SB</b>	<b>NSYAMRD40357SB</b>	<b>NSYSFPSC40</b>
275	485	<b>NSYMM35SB</b>	<b>NSYAMRD50357SB</b>	<b>NSYSFPSC50</b>
275	585	<b>NSYMM36SB</b>	<b>NSYAMRD60357SB</b>	<b>NSYSFPSC60</b>
275	785	<b>NSYMM38SB</b>	<b>NSYAMRD80357SB</b>	<b>NSYSFPSC80</b>
375	385	<b>NSYMM44SB</b>	<b>NSYAMRD40357SB</b>	<b>NSYSFPSC40</b>
375	485	<b>NSYMM45SB</b>	<b>NSYAMRD50357SB</b>	<b>NSYSFPSC50</b>
375	585	<b>NSYMM46SB</b>	<b>NSYAMRD60357SB</b>	<b>NSYSFPSC60</b>
375	785	<b>NSYMM48SB</b>	<b>NSYAMRD80357SB</b>	<b>NSYSFPSC80</b>



(2) Standard equipped in Bus box.

(3) All boxes are delivered with 5 x Ø 5 mm self-tapping screws.

\* Only 2 screws for mounting plates with height 150 mm.

\*\* Same reference for all dimensions. Only compatible with FL21 entry box and Bus box.

# Steel industrial boxes

## Fixing accessories



Characteristics				Flat box	
Colour					
Ingress protection rating					
Installation					
Maximum load					
Supply				1 unit	
Dimensions (mm)			Cover screws (1)	References	
Height	Width	Depth	Qty	SBM	
150	150	80	4	NSYSBM15158	
		120	4	NSYSBM151512	
	200	80	4	NSYSBM15208	
		120	4	NSYSBM152012	
	300	80	4	NSYSBM15308	
		120	4	NSYSBM153012	
	400	80	4	NSYSBM15408	
			4	NSYSBM154012	
120		4	NSYSBM20208		
		4	NSYSBM202012		
200	200	80	4	NSYSBM20308	
		120	4	NSYSBM203012	
	300	80	4	NSYSBM20408	
		120	4	NSYSBM204012	
	400	80	6	NSYSBM20508	
		120	6	NSYSBM205012	
	600	80	6	NSYSBM20608	
			6	NSYSBM206012	
		120	6	NSYSBM208012	
			6	NSYSBM303012	
	300	300	120	4	NSYSBM304012
		400	120	4	NSYSBM305012
500		120	6	NSYSBM306012	
600		120	6	NSYSBM308012	
800		120	6	NSYSBM404012	
400	400	120	4	NSYSBM405012	
	500	120	6	NSYSBM406012	
	600	120	6	NSYSBM408012	
	800	120	6	NSYSBM408012	

(1) For Bus box, divide by 2.



# Steel wall-mounting enclosures

# Steel wall-mounting enclosures

## Contents

PB500369-31



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PB500066-54



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# Steel wall-mounting enclosures

## Introduction

➤ You need an enclosure for indoor non-clean industrial environment.

### CRN

PB500369-68



PB500377-48



#### Time Lasting

- Industrial welding process.
- Epoxy-polyester painting.

- Foamed-in polyurethane gasket.

All of the above guarantees quality, water and dust tightness.

Front folded gutter prevents the entry of water, oil or liquids, ensuring IP66 protection.

PB500379-44



#### Safety

##### For people:

- Two welded M6 x 15 earth studs welded to the back and one M6 x 15 stud on the door.

##### For your installation:

- Water and dust tightness IP66.
- Ruggedness IK10 to protect your component from external impact.
- Hidden hinges to prevent the removal of the door.

PB500376-64



#### Smart

Welded door reinforcement profile allowing the fixing of equipment in models from 500 mm high.

### CRNG

PB500373-70



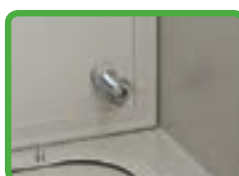
PB500110-35



#### Sealed

Glazed tempered glass door that allow to maintain the IP66 and IK08 protection.

PB500366-187



#### Practical

4 welded M8 x 15 back studs shouldered 10 mm for direct installation of mounting plate.

PB500378



#### Convenient

- Large embedded cable-entry plate with a neoprene seal, flush with the back of the enclosure.
- Direct fixing or using the brackets fixed from outside.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)



# Steel wall-mounting enclosures

## Characteristics



Characteristics	Spacial CRN	Spacial CRNG
	39 dimensions for this metal monobloc. Back piece joined to the sides using a special profile forming a protected sealed area.	<ul style="list-style-type: none"> <li>■ 17 dimensions with three-point locking system for this metal construction suite of enclosures.</li> <li>■ All Spacial CRNG models include a three-point locking system.</li> </ul>
Material	Steel	
Finish	Structured finish, epoxy-polyester powder	
Colour	RAL 7035 grey	
Ingress protection rating	<ul style="list-style-type: none"> <li>■ IP66 for one-door enclosures</li> <li>■ IP55 for two-door enclosures according to IEC 60529</li> </ul>	
Mechanical protection rating	IK10 for plain door & IK08 for glazed door according to IEC 62262	
Standards	IEC 62208	
Certifications (see page 574)	<ul style="list-style-type: none"> <li>■ UL, CUL</li> <li>■ NEMA 4 for single-door enclosure according to NEMA 250</li> <li>■ NEMA 12, 12K and 13 for double-door enclosure according to NEMA 250</li> <li>■ RoHS compliance</li> </ul>	
Installation	<ul style="list-style-type: none"> <li>■ Given their strength, metal enclosures are particularly well suited to indoor areas where they may experience impacts</li> <li>■ Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure</li> </ul>	
Supply	<p><b>Body</b></p> <ul style="list-style-type: none"> <li>■ 4 holes for direct fixing</li> <li>■ Wall-fixing drill holes sealed with plastic plugs to ensure the degree of protection (supplied as standard)</li> <li>■ Wall-fixing bracket fixed from outside (brackets to be ordered separately)</li> <li>■ Direct cable entry</li> <li>■ Built-in cable-entry plate, flush with the back of the enclosure (without foamed-in gasket to facilitate machining)</li> <li>■ Insulated cable entries with knock-outs, available as an accessory</li> <li>■ Easy to equip with 4 welded back studs shouldered 10 mm</li> </ul> <p><b>Door</b></p> <ul style="list-style-type: none"> <li>■ 3-mm standard double-bar lock as standard. See page 64 (Wide choice of inserts as accessories)</li> <li>■ Foamed-in polyurethane gasket on the doors to guarantee water and dust tightness</li> <li>■ Easily reversible door, fixed with two or three invisible metal hinges allowing the door to open to 120°</li> <li>■ Reinforcement on plain doors with welded perforated door profiles for equipment fixing from models NSYCRN54150</li> <li>■ Welded earth studs on door and body</li> <li>■ Delivered with a reusable packaging and technical instructions</li> </ul>	<p><b>Body</b></p> <ul style="list-style-type: none"> <li>■ 4 holes for direct fixing</li> <li>■ Wall-fixing drill holes sealed with plastic plugs to ensure water and dust tightness (supplied as standard)</li> <li>■ Wall-fixing bracket fixed from outside, specific for large dimensions (to be ordered separately). See on page 58</li> <li>■ Built-in cable-entry plate, flush with the back of the enclosure (without foamed-in gasket to facilitate machining)</li> <li>■ Easy to equip with 4 welded back studs shouldered 10 mm (6 for widths of 1000 mm and 1200 mm)</li> </ul> <p><b>Door</b></p> <ul style="list-style-type: none"> <li>■ Three-point locking system for one and two doors. Standard 5-mm double-bar lock</li> <li>■ Door-centring piece on two-door enclosures to ensure proper door alignment</li> <li>■ Foamed-in polyurethane gasket on the doors to guarantee water and dust tightness</li> <li>■ Reinforcement on plain doors with welded perforated door profiles for equipment fixing</li> <li>■ Delivered with a reusable packaging and technical instructions</li> <li>■ Easily reversible door, fixed with two or three invisible metal hinges allowing the door to open to 120°</li> <li>■ Welded earth studs on door and body</li> </ul>

# Steel wall-mounting enclosures

## Selection guide

**CRN** **CRNG**

PB500109-15



PB500110-12



PB500072-10



PB500100-10



PB500101-13



Dimensions (mm)			No. of doors	IP	Weight (1)	Door			Plain	Silkscreened	Microperforated	
Height (A)	Width (B)	Depth (C)				Plain with mounting plate	Plain without mounting plate	Glazed without mounting plate				
<b>CRN steel wall-mounting enclosures</b>												
200	200	150	1	66	2.5	-	NSYCRN22150 (2)	-	NSYMM22	-	-	
	300	150	1	66	3.9	-	NSYCRN23150 (2)	-	NSYMM32	-	NSYMF32	
250	200	150	1	66	3.2	-	NSYCRN252150P	NSYCRN252150	NSYMM2520	-	-	
300	250	150	1	66	4.2	-	NSYCRN325150P	NSYCRN325150	NSYCRN325150T	NSYMM3025	-	-
		200	1	66	4.9	-	NSYCRN325200P	NSYCRN325200	NSYCRN325200T	NSYMM3025	-	-
	300	150	1	66	5.0	-	NSYCRN33150P	NSYCRN33150	NSYCRN33150T	NSYMM33	-	NSYMF33
		200	1	66	6.0	-	NSYCRN33200P	NSYCRN33200	NSYCRN33200T	NSYMM33	-	NSYMF33
	400	200	1	66	6.4	-	NSYCRN34200	NSYCRN34200	NSYMM43	NSYMS43	NSYMF43	
	450	150	1	66	6.7	-	NSYCRN345150 (2)	-	NSYMM3045	-	-	
400	300	150	1	66	6.0	-	NSYCRN43150P	NSYCRN43150	NSYCRN43150T	NSYMM43	NSYMS43	NSYMF43
		200	1	66	6.8	-	NSYCRN43200P	NSYCRN43200	NSYCRN43200T	NSYMM43	NSYMS43	NSYMF43
	400	200	1	66	8.0	-	NSYCRN44200P	NSYCRN44200	NSYCRN44200T	NSYMM44	NSYMS44	NSYMF44
	600	250	1	66	10.0	-	NSYCRN46250P	NSYCRN46250	NSYCRN46250T	NSYMM64	NSYMS64	NSYMF64
	300	1	66	11.2	-	-	NSYCRN46300	NSYCRN46300	NSYMM64	NSYMS64	NSYMF64	
500	400	150	1	66	8.7	-	NSYCRN54150P	NSYCRN54150	NSYCRN54150T	NSYMM54	NSYMS54	NSYMF54
		200	1	66	9.8	-	NSYCRN54200P	NSYCRN54200	NSYCRN54200T	NSYMM54	NSYMS54	NSYMF54
	250	1	66	11.0	-	NSYCRN54250P	NSYCRN54250	NSYCRN54250T	NSYMM54	NSYMS54	NSYMF54	
	500	250	1	66	12.8	-	NSYCRN55250P	NSYCRN55250	NSYCRN55250T	NSYMM55	NSYMS55	NSYMF55
600	400	150	1	66	9.3	-	NSYCRN64150P	NSYCRN64150	NSYCRN64150T	NSYMM64	NSYMS64	NSYMF64
		200	1	66	10.8	-	NSYCRN64200P	NSYCRN64200	NSYCRN64200T	NSYMM64	NSYMS64	NSYMF64
	250	1	66	12.3	-	NSYCRN64250P	NSYCRN64250	NSYCRN64250T	NSYMM64	NSYMS64	NSYMF64	
	500	150	1	66	11.3	-	NSYCRN65150P	NSYCRN65150	NSYCRN65150T	NSYMM65	-	NSYMF65
		200	1	66	14.3	-	NSYCRN65200P	NSYCRN65200	NSYCRN65200T	NSYMM65	-	NSYMF65
	250	1	66	16.2	-	NSYCRN65250P	NSYCRN65250	NSYCRN65250T	NSYMM65	-	NSYMF65	
	600	200	1	66	16.3	-	NSYCRN66200P	NSYCRN66200	NSYCRN66200T	NSYMM66	NSYMS66	NSYMF66
		250	1	66	18.2	-	NSYCRN66250P	NSYCRN66250	NSYCRN66250T	NSYMM66	NSYMS66	NSYMF66
	300	1	66	19.8	-	NSYCRN66300P	NSYCRN66300	NSYCRN66300T	NSYMM66	NSYMS66	NSYMF66	
	800	300	1	66	26.0	-	NSYCRN68300	NSYCRN68300	NSYMM86	NSYMS86	NSYMF86	
700	500	200	1	66	17.3	-	NSYCRN75200P	NSYCRN75200	NSYCRN75200T	NSYMM75	NSYMS75	NSYMF75
		250	1	66	19.3	-	NSYCRN75250P	NSYCRN75250	NSYCRN75250T	NSYMM75	NSYMS75	NSYMF75
800	600	200	1	66	21.8	-	NSYCRN86200P	NSYCRN86200	NSYCRN86200T	NSYMM86	NSYMS86	NSYMF86
		250	1	66	24.8	-	NSYCRN86250P	NSYCRN86250	NSYCRN86250T	NSYMM86	NSYMS86	NSYMF86
	300	1	66	26.3	-	NSYCRN86300P	NSYCRN86300	NSYCRN86300T	NSYMM86	NSYMS86	NSYMF86	
	800	200	1	66	29.5	-	NSYCRN88200P	NSYCRN88200	NSYCRN88200T	NSYMM88	-	NSYMF88
		300	1	66	32.5	-	NSYCRN88300P	NSYCRN88300	NSYCRN88300T	NSYMM88	-	NSYMF88
1000	600	250	1	66	28.4	-	NSYCRN106250P	NSYCRN106250	NSYCRN106250T	NSYMM106	-	NSYMF106
		300	1	66	30.6	-	NSYCRN106300P	NSYCRN106300	NSYCRN106300T	NSYMM106	-	NSYMF106
	800	250	1	66	34.5	-	NSYCRN108250P	NSYCRN108250	NSYCRN108250T	NSYMM108	-	NSYMF108
		300	1	66	37.4	-	NSYCRN108300P	NSYCRN108300	NSYCRN108300T	NSYMM108	-	NSYMF108
<b>CRNG Wall-mounting steel enclosures with three-point locking system</b>												
800	600	400	1	66	30.0	-	NSYCRNG86400	NSYCRNG86400T	NSYMM86	NSYMS86	NSYMF86	
	1000	300	2	55	40.0	-	NSYCRNG810300D	-	NSYMM108	-	NSYMF108	
	1200	300	2	55	46.0	-	NSYCRNG812300D	-	NSYMM128	-	NSYMF128	
1000	600	400	1	66	36.0	-	NSYCRNG106400	NSYCRNG106400T	NSYMM106	-	NSYMF106	
		800	1	66	43.0	-	NSYCRNG108400	NSYCRNG108400T	NSYMM108	-	NSYMF108	
	1000	300	2 (3)	55	47.0	-	NSYCRNG1010300D	NSYCRNG1010300T	NSYMM1010	-	NSYMF1010	
	1200	300	2	55	55.0	-	NSYCRNG1012300D	-	NSYMM1210	-	NSYMF1210	
		400	2	55	60.0	-	NSYCRNG1012400D	-	NSYMM1210	-	NSYMF1210	
1200	600	300	1	66	37.0	-	NSYCRNG126300	NSYCRNG126300T	NSYMM126	-	NSYMF126	
		400	1	66	42.0	-	NSYCRNG126400	NSYCRNG126400T	NSYMM126	-	NSYMF126	
	800	300	1	66	45.0	-	NSYCRNG128300	NSYCRNG128300T	NSYMM128	-	NSYMF128	
		400	1	66	50.0	-	NSYCRNG128400	NSYCRNG128400T	NSYMM128	-	NSYMF128	
	1000	300	2	55	56.0	-	NSYCRNG1210300D	-	NSYMM1210	-	NSYMF1210	
		400	2	55	61.0	-	NSYCRNG1210400D	-	NSYMM1210	-	NSYMF1210	
	1200	300	2	55	64.0	-	NSYCRNG1212300D	-	NSYMM1212	-	2 x NSYMF126*	
		400	2	55	90.0	-	NSYCRNG1212400D	-	NSYMM1212	-	2 x NSYMF126*	
1400	1000	300	2	55	80.0	-	NSYCRNG1410300D	-	NSYMM1410	-	-	

(1) Enclosure without mounting plate.

(2) Two cable gland plates, one on the top, one on the bottom.

(3) Except glazed door in single door.

(4) With two holes.

(5) For flange openings type E, two NSYTSACRNC are required.

(6) Ref. NSYEMR mandatory.

# Steel wall-mounting enclosures

## Selection guide



Telequick		Bakelite		DIN rails chassis		Aluminum upright (7)		Step slides		Cable entry					
										Fig.	Type of cable entry	Cable-gland plate standard	Cable-gland plate insulated	Cable-gland plate with FL cut-out	FlexiCable
-	-	-	-	-	-	-	-	-	1	0	NSYTLCRNO	-	-	-	
-	NSYMB32	-	-	-	-	-	-	-	1	B	NSYTLCRNB	-	-	-	
-	-	-	-	-	-	-	-	-	1	0	NSYTLCRNO	-	-	-	
NSYMR3025	NSYMB3025	-	NSYMD33	NSYMDVR3	-	-	-	-	1	A	NSYTLCRNA	NSYTSACRNA	-	-	
NSYMR3025	NSYMB3025	-	NSYMD33	NSYMDVR3	NSYSDCR200	-	-	-	1	A	NSYTLCRNA	NSYTSACRNA	NSYFL13CRNA	-	
NSYMR33	NSYMB33	NSYMD33	NSYMD33	NSYMDVR3	-	-	-	-	1	B	NSYTLCRNB	NSYTSACRNB	NSYFL13CRNB	-	
NSYMR33	NSYMB33	NSYMD33	NSYMD33	NSYMDVR3	NSYSDCR200	-	-	-	1	B	NSYTLCRNB	NSYTSACRNB	NSYFL13CRNB	-	
NSYMR34	NSYMB43	-	NSYMD33	NSYMDVR3	NSYSDCR200	-	-	-	1	C	NSYTLCRNC	NSYTSACRNC	NSYFL21CRNC	-	
-	NSYMB43	-	NSYMD33	NSYMDVR3	-	-	-	-	1	B	NSYTLCRNB	NSYTSACRNB	NSYFL13CRNB	-	
NSYMR43	NSYMB43	NSYMD43	NSYMD43	NSYMDVR4	-	-	-	-	1	B	NSYTLCRNB	NSYTSACRNB	NSYFL13CRNB	-	
NSYMR43	NSYMB43	NSYMD43	NSYMD43	NSYMDVR4	NSYSDCR200	-	-	-	1	B	NSYTLCRNB	NSYTSACRNB	NSYFL13CRNB	-	
NSYMR44	-	-	NSYMD43	NSYMDVR4	NSYSDCR200	-	-	-	1	C	NSYTLCRNC	NSYTSACRNC	NSYFL21CRNC	-	
NSYMR46	NSYMB64	-	NSYMD43	NSYMDVR4	NSYSDCR250	-	-	-	1	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR46	NSYMB64	-	NSYMD43	NSYMDVR4	NSYSDCR300	-	-	-	1	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR54	NSYMB54	NSYMD54	NSYMD54	NSYMDVR5	-	-	-	-	2	B	NSYTLCRNB	NSYTSACRNB	NSYFL13CRNB	-	
NSYMR54	NSYMB54	NSYMD54	NSYMD54	NSYMDVR5	NSYSDCR200	-	-	-	2	C	NSYTLCRNC	NSYTSACRNC	NSYFL21CRNC	-	
NSYMR54	NSYMB54	NSYMD54	NSYMD54	NSYMDVR5	NSYSDCR250	-	-	-	2	C	NSYTLCRNC	NSYTSACRNC	NSYFL21CRNC	-	
NSYMR55	-	-	NSYMD54	NSYMDVR5	NSYSDCR250	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR64	NSYMB64	NSYMD64	NSYMD64	NSYMDVR6	-	-	-	-	2	B	NSYTLCRNB	NSYTSACRNB	NSYFL13CRNB	-	
NSYMR64	NSYMB64	NSYMD64	NSYMD64	NSYMDVR6	NSYSDCR200	-	-	-	2	C	NSYTLCRNC	NSYTSACRNC	NSYFL21CRNC	-	
NSYMR64	NSYMB64	NSYMD64	NSYMD64	NSYMDVR6	NSYSDCR250	-	-	-	2	C	NSYTLCRNC	NSYTSACRNC	NSYFL21CRNC	-	
NSYMR65	NSYMB65	-	NSYMD64	NSYMDVR6	-	-	-	-	2	B	NSYTLCRNB	NSYTSACRNB	NSYFL13CRNB	-	
NSYMR65	NSYMB65	-	NSYMD64	NSYMDVR6	NSYSDCR200	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR65	NSYMB65	-	NSYMD64	NSYMDVR6	NSYSDCR250	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR66	-	NSYMD66	NSYMD66	NSYMDVR6	NSYSDCR200	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR66	-	NSYMD66	NSYMD66	NSYMDVR6	NSYSDCR250	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR66	-	NSYMD66	NSYMD66	NSYMDVR6	NSYSDCR300	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR68	-	-	NSYMD66	NSYMDVR6	NSYSDCR300	-	-	-	2	E	NSYTLCRNC (4)	NSYTSACRNC	NSYFL21CRNC	-	
NSYMR75	NSYMB75	NSYMD75	NSYMD75	NSYMDVR7	NSYSDCR200	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR75	NSYMB75	NSYMD75	NSYMD75	NSYMDVR7	NSYSDCR250	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR86	NSYMB86	NSYMD86	NSYMD86	NSYMDVR8	NSYSDCR200	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR86	NSYMB86	NSYMD86	NSYMD86	NSYMDVR8	NSYSDCR250	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR86	NSYMB86	NSYMD86	NSYMD86	NSYMDVR8	NSYSDCR300	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR88	-	-	NSYMD86	NSYMDVR8	NSYSDCR200	-	-	-	2	E	NSYTLCRNC (4)	NSYTSACRNC (5)	NSYFL21CRNC	-	
NSYMR88	-	-	NSYMD86	NSYMDVR8	NSYSDCR300	-	-	-	2	E	NSYTLCRNC (4)	NSYTSACRNC (5)	NSYFL21CRNC	-	
NSYMR106	NSYMB106	-	NSYMD86	NSYMDVR10	NSYSDCR250	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR106	NSYMB106	-	NSYMD86	NSYMDVR10	NSYSDCR300	-	-	-	2	D	NSYTLCRND	NSYTSACRND	NSYFL21CRND	-	
NSYMR108	NSYMB108	NSYMD108	NSYMD108	NSYMDVR10	NSYSDCR250	-	-	-	2	E	NSYTLCRNC (4)	NSYTSACRNC (5)	NSYFL21CRNC	-	
NSYMR108	NSYMB108	NSYMD108	NSYMD108	NSYMDVR10	NSYSDCR300	-	-	-	2	E	NSYTLCRNC (4)	NSYTSACRNC (5)	NSYFL21CRNC	-	
NSYMR86	NSYMB86	NSYMD86	NSYMD86	NSYMDVR8	NSYSDCR400	-	-	-	3	G	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR810	-	-	NSYMD86	NSYMDVR8	NSYSDCR300	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
2 x NSYMR86*	-	-	NSYMD86	NSYMDVR8	NSYSDCR300**	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR106	NSYMB106	-	NSYMD86	NSYMDVR10	NSYSDCR400	-	-	-	3	G	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR108	NSYMB108	NSYMD108	NSYMD108	NSYMDVR10	NSYSDCR400	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR1010 (6)	NSYMB1210	-	NSYMD108	NSYMDVR10	NSYSDCR300	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR1012 (6)	NSYMB1210	-	NSYMD108	NSYMDVR10	NSYSDCR300**	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR1012 (6)	-	-	NSYMD108	NSYMDVR10	NSYSDCR400**	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR126	-	-	NSYMD108	NSYMDVR12	NSYSDCR300	-	-	-	3	G	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR126	-	-	NSYMD108	NSYMDVR12	NSYSDCR400	-	-	-	3	G	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR128	-	NSYMD128	NSYMD128	NSYMDVR12	NSYSDCR300	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR128	-	NSYMD128	NSYMD128	NSYMDVR12	NSYSDCR400	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR1210 (6)	NSYMB1210	-	NSYMD128	NSYMDVR12	NSYSDCR300	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR1210 (6)	NSYMB1210	-	NSYMD128	NSYMDVR12	NSYSDCR400	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
2 x NSYMR126*	-	-	NSYMD128	NSYMDVR12	NSYSDCR300**	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
2 x NSYMR126*	-	-	NSYMD128	NSYMDVR12	NSYSDCR400**	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	
NSYMR1410 (6)	-	-	-	-	NSYSDCR300	-	-	-	4	H	NSYTLG	-	NSYTLG2FL	NSYTLGME	

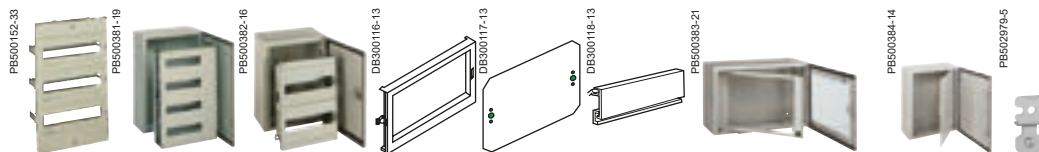
(7) Order NSYAMCSF, NSYMDVR12 in steel.

\* Order NSYCRNGSDR to mount double mounting plate.

\*\* Except for double mounting plate, order in addition ref. NSYSRSDCR300 (D300) or NSYSRSDCR400 (D400).

# Steel wall-mounting enclosures

## Selection guide



Nominal dimensions (mm)			No. of doors	Electric distribution						Electronic and network		Installation system		
Height (A)	Width (B)	Depth (C)		DLA insulated distribution chassis	DL fixed metal distribution chassis	DLM adjustable metal distribution chassis	Plain cover plate for DLM	Mounting plate for DLM	Blanking plate	Fixed 19" rack	Swing 19" rack	Inner door	Wall-fixing lugs	
<b>CRN steel wall-mounting enclosures</b>														
200	200	150	1	-	-	-	-	-	-	-	-	-	NSYPFCR	
	300	150	1	-	-	-	-	-	-	-	-	-	NSYPFCR	
250	200	150	1	-	-	-	-	-	-	-	-	-	NSYPFCR	
300	250	150	1	-	NSYDLCR18	-	-	-	-	-	-	-	NSYPFCR	
		200	1	-	NSYDLCR18	-	-	-	-	-	-	-	NSYPFCR	
	300	150	1	-	-	-	-	-	-	-	-	-	NSYPFCR	
		200	1	-	-	-	-	-	-	-	-	-	-	NSYPFCR
400	400	200	1	-	-	-	-	-	-	-	-	-	NSYPFCR	
		150	1	-	-	-	-	-	-	-	-	-	NSYPFCR	
	300	150	1	NSYDLA24G	NSYDLCR24	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G	-	-	NSYPIN43	NSYPFCR	
		200	1	NSYDLA24G	NSYDLCR36	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G	-	-	NSYPIN43	NSYPFCR	
500	400	200	1	-	-	-	-	-	-	-	-	-	NSYPFCR	
		150	1	-	-	-	-	-	-	-	-	-	NSYPFCR	
	500	250	1	NSYDLA48G	NSYDLCR48	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	NSYVDM8UF	NSYVDM7UP	-	NSYPFCR	
		200	1	NSYDLA48G	NSYDLCR48	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	NSYVDM8UF	NSYVDM7UP	-	NSYPFCR	
600	400	150	1	NSYDLA48PG	-	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	NSYPIN64	NSYPFCR	
		200	1	NSYDLA48PG	-	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	NSYPIN64	NSYPFCR	
		250	1	NSYDLA48PG	NSYDLCR64	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G	-	-	NSYPIN64	NSYPFCR	
		150	1	-	NSYDLCR64	-	-	-	-	-	-	-	NSYPFCR	
	500	200	1	-	-	-	-	-	-	-	-	-	NSYPFCR	
			1	-	-	-	-	-	-	-	-	-	NSYPFCR	
		250	1	-	NSYDLCR88	-	-	-	-	-	-	-	NSYPFCR	
			1	-	NSYDLCR88	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM12UF	NSYVDM11UP	-	NSYPFCR	
	600	250	1	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM12UF	NSYVDM11UP	-	NSYPFCR	
			1	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM12UF	NSYVDM11UP	-	NSYPFCR	
		300	1	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM12UF	NSYVDM11UP	-	NSYPFCR	
			1	-	-	-	-	-	-	-	-	-	-	NSYPFCR
700	500	200	1	NSYDLA66G/ NSYDLA88G	-	NSYDLM66/ NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G	-	-	NSYPIN75	NSYPFCR	
		250	1	NSYDLA66G/ NSYDLA88G	-	NSYDLM66/ NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G	-	-	NSYPIN75	NSYPFCR	
	600	200	1	NSYDLA84G/ NSYDLA112G	NSYDLCR110	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	-	NSYPIN86	NSYPFCR	
		250	1	NSYDLA84G/ NSYDLA112G	-	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	NSYVDM16UP	NSYPIN86	NSYPFCR	
800	300	1	NSYDLA84G/ NSYDLA112G	NSYDLCR135	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	NSYVDM16UP	NSYPIN86	NSYPFCR		
		1	-	-	-	-	-	-	-	-	-	NSYPFCR		
	1000	600	250	1	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM21UF	NSYVDM20UP	NSYPIN106	NSYPFCR
			300	1	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM21UF	NSYVDM20UP	NSYPIN106	NSYPFCR
1000	800	250	1	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G	-	NSYVDM20U8P	NSYPIN108	NSYPFCR	
		300	1	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G	-	NSYVDM20U8P	NSYPIN108	NSYPFCR	
	<b>CRNG Wall-mounting steel enclosures with three-point locking system</b>													
	800	600	400	1	NSYDLA84G/ NSYDLA112G	-	NSYDLM84/ NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM17UF	NSYVDM16UP	NSYPIN86	NSYAEFPFSC
2				-	-	-	-	-	-	-	-	-	NSYAEFPFSC	
1000		300	2	1	-	-	-	-	-	-	-	-	NSYAEFPFSC	
				2	-	-	-	-	-	-	-	-	-	NSYAEFPFSC
1000	600	400	1	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G	NSYVDM21UF	NSYVDM20UP	NSYPIN106	NSYAEFPFSC	
			1	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G	-	NSYVDM20U8P	NSYPIN108	NSYAEFPFSC	
	1000	300	2	1	-	-	-	-	-	-	-	NSYAEFPFSC		
				2	-	-	-	-	-	-	-	-	NSYAEFPFSC	
	1200	600	300	1	-	-	-	-	-	-	-	-	NSYAEFPFSC	
				2	-	-	-	-	-	-	-	-	NSYAEFPFSC	
		800	400	1	1	-	-	-	-	-	-	-	NSYAEFPFSC	
					2	-	-	-	-	-	-	NSYVDM25U8P	NSYPIN128	NSYAEFPFSC
1000	300	2	1	-	-	-	-	-	-	-	-	NSYAEFPFSC		
			2	-	-	-	-	-	-	-	-	NSYAEFPFSC		
	400	2	1	-	-	-	-	-	-	-	-	NSYAEFPFSC		
			2	-	-	-	-	-	-	-	-	NSYAEFPFSC		
1400	1000	300	2	1	-	-	-	-	-	-	-	NSYAEFPFSC		
				2	-	-	-	-	-	-	-	-	NSYAEFPFSC	

(1) To be coupled in 200 mm depth enclosure, the lifting bracket ref. NSYEX608 must be ordered separately.  
 (2) 2 coupling plates and supporting poles are required.

# Steel wall-mounting enclosures

## Selection guide



	Kit for heavy loads*	Post-fixing device	Single plinths side plate**		Single plinths front plate**		Supporting pole	Coupling plates	Canopies	Floor stand kit for WM		Support bracket for enclosure with anti-tilt kit and reinforcement
			100 mm	200 mm	100 mm	200 mm				300 mm	400 mm	
-	-	-	-	-	-	-	-	-	-	-	-	NSYCOCONS1400
-	-	-	-	-	-	-	-	-	-	-	-	NSYCOCONS1400
-	-	-	-	-	-	-	-	-	NSYJ2015	-	-	NSYCOCONS1400
-	-	-	-	-	-	-	-	NSYCHCOA	NSYTJ2515	-	-	NSYCOCONS1400
-	-	-	-	-	-	-	NSYCOCN80	NSYCHCOA	NSYTJ2520	-	-	NSYCOCONS1400
-	NSYFPPSC30	-	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3015	-	-	NSYCOCONS1400
-	NSYFPPSC30	-	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3020	-	-	NSYCOCONS1400
-	NSYFPPSC40	-	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4020	-	-	NSYCOCONS1400
-	-	-	-	-	-	-	-	-	-	-	-	NSYCOCONS1400
-	NSYFPPSC30	-	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3015	-	-	NSYCOCONS1400
-	NSYFPPSC30	-	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ3020	-	-	NSYCOCONS1400
-	NSYFPPSC40	-	-	-	-	-	NSYCOCN80	NSYCHCOB	NSYTJ4020	-	-	NSYCOCONS1400
-	NSYFPPSC60	-	-	-	-	-	-	NSYCHCOD	NSYTJ6025	-	-	NSYCOCONS1400
-	NSYFPPSC60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	NSYCHCOB	NSYTJ6030	-	-	NSYCOCONS1400
-	NSYFPPSC40	-	-	-	-	-	-	NSYCHCOB	NSYTJ4015	-	-	NSYCOCONS1400
-	NSYFPPSC40	-	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4020	-	-	NSYCOCONS1400
-	NSYFPPSC40	-	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4025	-	-	NSYCOCONS1400
-	NSYFPPSC50	-	-	-	-	-	-	NSYCHCOD	NSYTJ5025	-	-	NSYCOCONS1400
-	NSYFPPSC40	-	-	-	-	-	-	NSYCHCOB	NSYTJ4015	-	-	NSYCOCONS1400
-	NSYFPPSC40	-	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4020	-	-	NSYCOCONS1400
-	NSYFPPSC40	-	-	-	-	-	NSYCOCN80	NSYCHCOC	NSYTJ4025	-	-	NSYCOCONS1400
-	NSYFPPSC50	-	-	-	-	-	-	NSYCHCOD	NSYTJ5025	-	-	NSYCOCONS1400
-	NSYFPPSC50	-	-	-	-	-	-	NSYCHCOB	NSYTJ5015	-	-	NSYCOCONS1400
-	NSYFPPSC50	-	-	-	-	-	-	NSYCHCOD	NSYTJ5020	-	-	NSYCOCONS1400
-	NSYFPPSC50	-	-	-	-	-	-	NSYCHCOD	NSYTJ5025	-	-	NSYCOCONS1400
-	NSYFPPSC60	-	-	-	-	-	-	NSYCHCOD	NSYTJ6020	-	-	NSYCOCONS1400
-	NSYFPPSC60	-	-	-	-	-	-	NSYCHCOD	NSYTJ6025	-	-	NSYCOCONS1400
-	NSYFPPSC60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	NSYCHCOB	NSYTJ6030	-	-	NSYCOCONS1400
-	NSYFPPSC80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	NSYCHCOC (2)	NSYTJ8030	-	-	NSYCOCONS1400
-	NSYFPPSC50	-	-	-	-	-	-	NSYCHCOD	NSYTJ5020	-	-	NSYCOCONS1400
-	NSYFPPSC50	-	-	-	-	-	-	NSYCHCOD	NSYTJ5025	-	-	NSYCOCONS1400
-	NSYFPPSC60	-	-	-	-	-	-	NSYCHCOD	NSYTJ6020	-	-	NSYCOCONS1400
-	NSYFPPSC60	-	-	-	-	-	-	NSYCHCOD	NSYTJ6025	-	-	NSYCOCONS1400
-	NSYFPPSC60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	-	NSYTJ6030	-	-	NSYCOCONS1400
-	NSYFPPSC80	-	-	-	-	-	-	NSYCHCOC (2)	NSYTJ8020	-	-	NSYCOCONS1400
-	NSYFPPSC80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	NSYCHCOC (2)	NSYTJ8030	-	-	NSYCOCONS1400
-	-	-	-	-	-	-	-	NSYCHCOD	NSYTJ6025	-	-	NSYCOCONS1400
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	-	NSYTJ6030	-	-	NSYCOCONS1400
-	-	-	-	-	-	-	-	NSYCHCOC (2)	NSYTJ8025	-	-	NSYCOCONS1400
-	-	-	-	-	-	-	-	NSYCHCOC (2)	NSYTJ8030	-	-	NSYCOCONS1400
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	NSYCHCOC (2)	NSYTJ8030	-	-	NSYCOCONS1400
NSYAEFAHLBSC	NSYFPPSC60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	-	NSYTJ6040	-	-	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	-	NSYTJ10030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	-	NSYTJ12030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	-	NSYTJ6040	-	-	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	-	-	-	NSYTJ8040	NSYWMK43	NSYWMK44	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	-	NSYTJ10030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	-	NSYTJ12030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	-	-	NSYTJ12040	NSYWMK43	NSYWMK44	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	-	NSYTJ6030	-	-	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	-	NSYTJ6040	-	-	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	-	NSYTJ8030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	-	-	-	NSYTJ8040	NSYWMK43	NSYWMK44	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	-	NSYTJ10030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF10100	NSYSPF10200	-	-	-	NSYTJ10040	NSYWMK43	NSYWMK44	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	-	NSYTJ12030	NSYWMK33	NSYWMK34	-
NSYAEFAHLBSC	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	-	-	NSYTJ12040	NSYWMK43	NSYWMK44	-
NSYAEFAHLBSC	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	-	NSYTJ10030	NSYWMK33	NSYWMK34	-

\* Order the **NSYAEFPFSC** wall-fixing brackets separately.  
 \*\* To install the plinth to a wall-mounting enclosure, order ref. **NSYAPFWM**.  
 \*\*\* Available in version 1800 mm: ref. **NSYCOCONS1800**.

# Steel wall-mounting enclosures

## Dimensions

**CRN**

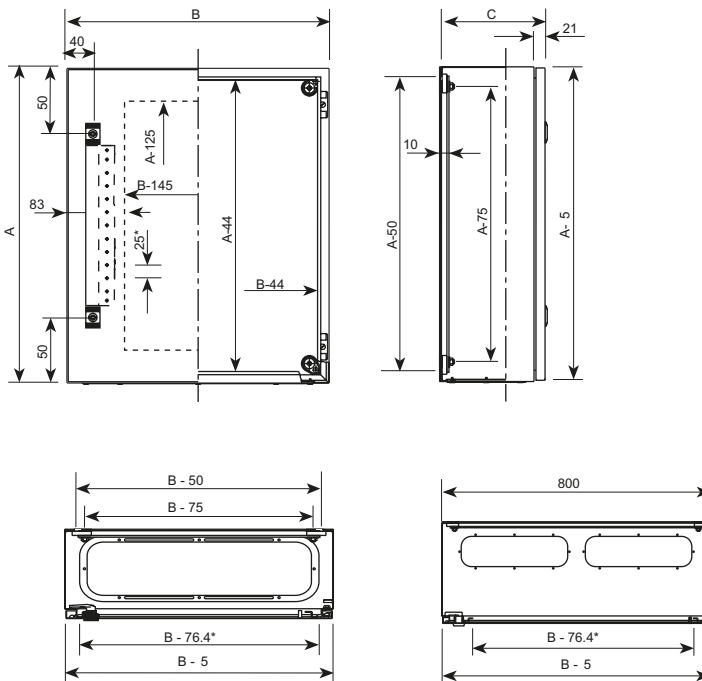
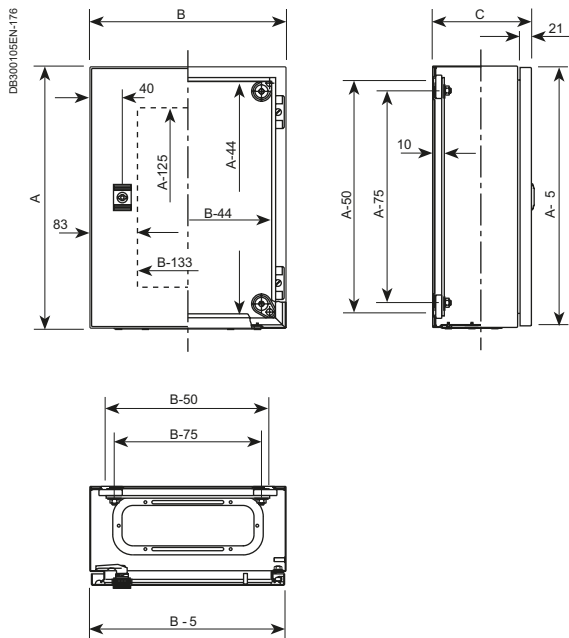
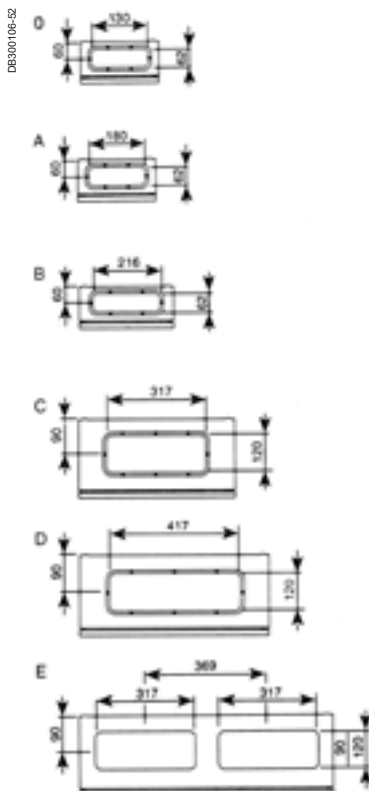


Fig. 1

Fig. 2

A: Enclosure height  
 B: Enclosure width  
 C: Enclosure depth

### Spacial CRN cable entry dimensions and type



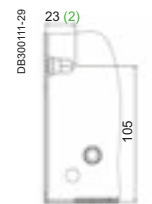
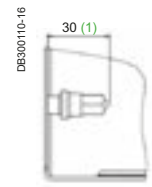
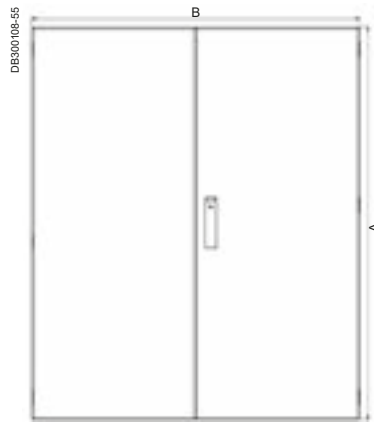
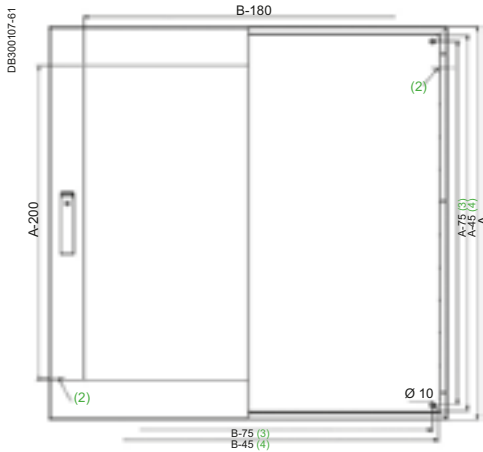
None of the T glazed-door enclosures have door reinforcement profiles.

Our DXF diagrams and technical instruction sheets can be downloaded from our website.

# Steel wall-mounting enclosures

## Dimensions

### CRNG

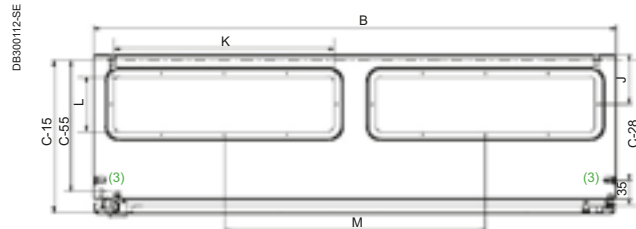


Detail (1)  
Detail (2)

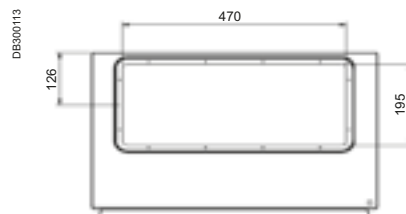
Dimensions of enclosure (mm)					
Width (B)	Depth (C)	J	K	L	M
600	300-400	126	470	195	-
800	300-400	95	320	105	400
1000 (5)	300	125	420	105	500
1000	300-400	95	420	105	500
1200	300	95	420	105	500
	400	125	420	105	600

- (1) Four M8 x 25 back studs.
- (2) Two M6 x 17.5 earth studs.
- (3) Spacing between the studs.
- (4) Spacing between the perforations for direct fixing.
- (5) Only models 1400 x 1000 x 300.

A: Enclosure height  
B: Enclosure width  
C: Enclosure depth



Cable entry type H: enclosure width ≥ 800 mm.



Cable entry type G: enclosure width 600 mm.

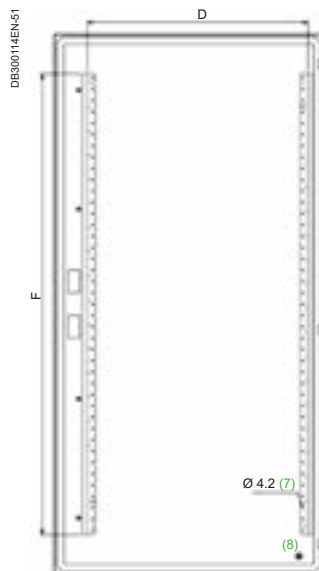
### Dimensions of the door-reinforcement profiles (6)

1-door enclosure		Reinforcement profile	
Height (A)	Width (B)	F	D
800	600	620	487
1000	600	820	487
	800	820	687
1200	600	1020	480
	800	1020	687

2-door enclosure		Reinforcement profile			
Height (A)	Width (B)	Rt. Door		Lft. Door	
		F	D	F	D
800	1000	620	387	620	437
	1200	620	487	620	537
1000	1000	820	387	820	437
	1200	820	487	820	537
1200	1000	1020	387	1020	437
	1200	1020	487	1020	537
1400	1000	1020	387	1020	437

- (6) The T doors only include vertical profiles.
  - (7) 25-mm passage.
  - (8) 1 M6 x 17.5 earth stud.
- Download our DXF diagrams from our website.



PB500371-74



### Composition accessories

#### Fixing



Page 58

#### Floor



Page 61

#### Coupling



Page 62

#### Hoisting



Page 63

#### Protection



Page 63

#### Locking systems



Page 64

#### Cable-gland plates



Page 66

#### Door



Page 68

#### Mounting accessories



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#### Modular chassis



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PB502439-65



### Cable management

#### Cable holding

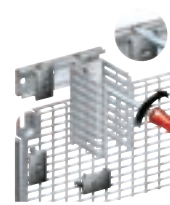
PB500986-40



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#### Cable ducting

PB500959-22



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### Thermal management

#### Heaters

PB502050-29



Page 556

#### Ventilation

PB501044-26



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#### Cooling units

PB502614-15



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### Others

#### Earthing

PB500217-29



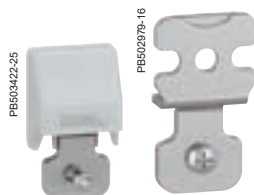
Page 277

### Fixing

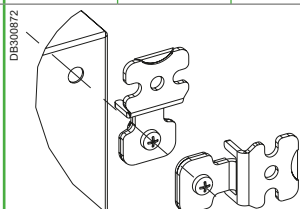
**CRN**



**CRNG**

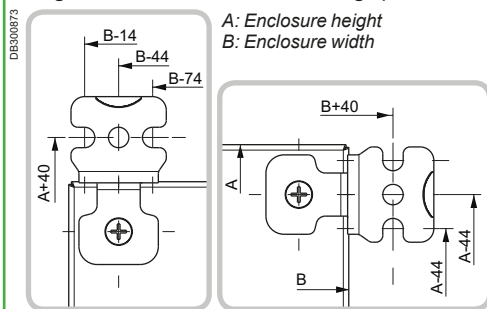


Characteristics	Wall-fixing lugs for Spacial CRN enclosures				Wall-fixing lugs for Spacial CRNG enclosures			Kit for heavy loads
	Set of 4 wall-fixing lugs. Mounted directly on the rear of the enclosure, either in horizontal or vertical position. Wall-enclosure separation of 10 mm. Do not use for dynamic loads.						Covers.	Kit made up of 2 reinforcement pieces. To be mounted before installing the mounting plate in top position with the standard lugs (to be ordered separately).
Material	Passivated zinc-coated steel	Stainless-steel 304L	Stainless-steel 316L	Passivated zinc-coated steel + PA	Passivated zinc-coated steel	Stainless-steel 304L	PA	Passivated zinc-coated steel
Maximum load	250 kg						-	400 kg
Supply	Supplied with fixing screws and pre-mounted sealing gaskets			4 fixing brackets + covers	Supplied with fixing screws and pre-mounted sealing gaskets		Kit of 4 covers	-
References								
					For indoor enclosure	For outdoor enclosure		
	<b>NSYPFCR</b>	<b>NSYPFCX</b>	<b>NSYPFC2X</b>	<b>NSYPFCR2</b>	<b>NSYAEFPFSC</b>	<b>NSYAEFPFXSC</b>	<b>NSYCAEFPF</b>	<b>NSYAEFAHLBSC</b>



Installation from the outside.

**Fixing centre-to-centre distance with lugs (M6/M8 screw)**



Vertical position.

Horizontal position.

You will find the weights of the Spacial CRN - CRNG enclosures without mounting plate in the selection guide on page 50.

### Fixing



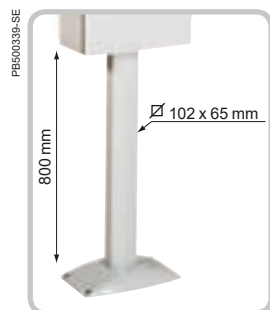
Characteristics	Post-fixing device for Spacial steel enclosure	
	For indoor installations on posts with a maximum circumference of 675 mm (minimum diameter 150 mm and maximum diameter 215 mm). Rail fixed to the inserts in the rear of the enclosure with 8-mm screws. They allow the mounting of protection canopies.	
Material	Galvanised steel	
Maximum load	100 kg	
<b>Width (mm)</b>	<b>A (mm)</b>	<b>References</b>
300	295	<b>NSYSFPSC30</b>
400	395	<b>NSYSFPSC40</b>
500	495	<b>NSYSFPSC50</b>
600	595	<b>NSYSFPSC60</b>
800	795	<b>NSYSFPSC80</b>

DB30008EN-60

DB30008EN-53

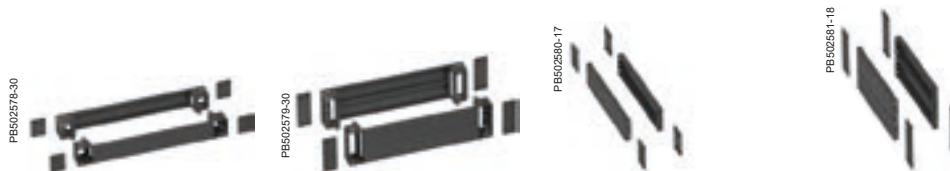
### Fixing



Characteristics	Support pillar	Support bracket for enclosure with anti-tilt kit and reinforcement	Floor Stand Kit for wall-mounting enclosure																								
	The support pillar is fixed directly to the bottom face of the Spacial steel enclosure by means of an adapter plate. The latter, to be ordered in addition to the pillar, replaces the cable-gland plate. Overall height of the support foot: 800 mm. Mounting possible on all enclosures with dimensions up to 600 x 400 x 250 mm (except 200 x 200 x 150 and 250 x 200 x 150 enclosures).	The support bracket is used when the enclosure cannot be hung from a wall or a post. Suitable for outdoor use. Maximum enclosure dimensions: 1000 x 800 x 300 mm. Floor attachment by standard M12 fastenings.	Set of 2 feet, elevating wall-mounting enclosures. Cut-outs needed on enclosure – drilling template provided with the kit.																								
Material	Extruded aluminium	Steel	Steel																								
Finish	Epoxy-polyester paint	Epoxy-polyester paint	Epoxy-polyester paint																								
Colour	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey																								
Thickness	-	-	■ Sides: 2.5 mm ■ Base: 3 mm																								
Maximum load	-	120 kg	250 kg																								
Supply	-	-	2 platform feet (right and left) and fixing elements																								
Height (mm)	Reference	References	Enclosure depth   Foot height   References																								
			mm   Inches   mm   Inches																								
800	<b>NSYCOCN80</b>	-	-   -   -   -   -																								
1400	-	<b>NSYCOCN1400</b>	-   -   -   -   -																								
1800	-	<b>NSYCOCN1800</b>	-   -   -   -   -																								
-	-	-	300*   12   300   12   <b>NSYWWMK33</b>																								
-	-	-	400**   16   300   12   <b>NSYWWMK43</b>																								
-	-	-	300*   12   450   18   <b>NSYWWMK34</b>																								
-	-	-	400**   16   450   18   <b>NSYWWMK44</b>																								
			<p>* When enclosures are equipped with a cable gland plate, it only fits with enclosures of width 800, 1000 &amp; 1200 mm, except model H 600 x W 800 x D 300 mm.</p> <p>** When enclosures are equipped with a cable gland plate, it does not fit with enclosures of width 600 mm.</p> <p>Compatible with Spacial S3D, S3DC &amp; CRNG enclosures.</p>																								
	<b>Support pillar adaptation plate</b> <p><b>Description:</b> plate for fixing the support pillar on the enclosure. This plate replaces the cable-gland plate delivered with the enclosure.  <b>Material:</b> steel  <b>Finish:</b> polyester powder  <b>Colour:</b> RAL 7035 grey</p>																										
	<table border="1"> <thead> <tr> <th colspan="2">For enclosure (mm)</th> <th>To be coupled with cable entry*</th> <th>References</th> </tr> <tr> <th>Width</th> <th>Depth</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>250</td> <td>150-200</td> <td>A</td> <td><b>NSYCHCOA</b></td> </tr> <tr> <td>300-400-450-500</td> <td>150-200</td> <td>B</td> <td><b>NSYCHCOB</b></td> </tr> <tr> <td>400</td> <td>200-250</td> <td>C</td> <td><b>NSYCHCOC</b></td> </tr> <tr> <td>500-600</td> <td>200-250-300</td> <td>D</td> <td><b>NSYCHCOD</b></td> </tr> </tbody> </table> <p>* See type of entry in drawings on page 54.</p>	For enclosure (mm)		To be coupled with cable entry*	References	Width	Depth			250	150-200	A	<b>NSYCHCOA</b>	300-400-450-500	150-200	B	<b>NSYCHCOB</b>	400	200-250	C	<b>NSYCHCOC</b>	500-600	200-250-300	D	<b>NSYCHCOD</b>		
For enclosure (mm)		To be coupled with cable entry*	References																								
Width	Depth																										
250	150-200	A	<b>NSYCHCOA</b>																								
300-400-450-500	150-200	B	<b>NSYCHCOB</b>																								
400	200-250	C	<b>NSYCHCOC</b>																								
500-600	200-250-300	D	<b>NSYCHCOD</b>																								

### Floor

For more information, see page 92.



Characteristics	Front and rear plinth	Plinth side panels
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.
Material	Folded sheet steel, corner with a thickness of 2.5 mm	Folded sheet steel
Finish	Epoxy-polyester paint	Epoxy-polyester paint
Colour	RAL 7022 grey	RAL 7022 grey
Ingress protection rating	IP 30 according to IEC 60529	IP 30 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262
Installation	It is necessary to order separately the plinth fixing kit (ref. <b>NSYAPFWM</b> ) composed by fixing hardware and drilling jig	
Supply	<ul style="list-style-type: none"> <li>■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements</li> <li>■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements</li> </ul>	<ul style="list-style-type: none"> <li>■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements</li> <li>■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements</li> </ul>

References		100 mm	200 mm	100 mm	200 mm
Width (mm)	Depth (mm)				
600	-	<b>NSYSPPF6100</b>	<b>NSYSPPF6200</b>	-	-
800	-	<b>NSYSPPF8100</b>	<b>NSYSPPF8200</b>	-	-
1000	-	<b>NSYSPPF10100</b>	<b>NSYSPPF10200</b>	-	-
1200	-	<b>NSYSPPF12100</b>	<b>NSYSPPF12200</b>	-	-
-	300	-	-	<b>NSYSPPS3100SD</b>	<b>NSYSPPS3200SD</b>
-	400	-	-	<b>NSYSPPS4100SD</b>	<b>NSYSPPS4200SD</b>

**[!]** Stainless-steel plinths (standard plinths page 128, ventilated plinths page 377) are compatible with steel wall-mounting S3D enclosures using an earthing cable reference NSYEL226D13 (description page 278) to be ordered separately.

Plinth height 100 mm (4 corners + front and back panels)

Plinth height 100 mm (Set of 2 side panels)

Plinth height 200 mm (4 corners + front and back panels)

Plinth height 200 mm (Set of 2 side panels)

Characteristics		Stainless-steel plinths									
Material	Stainless-steel, AISI 304L					Stainless-steel, AISI 316L					
Finish	Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion										
Installation	It is necessary to order separately the plinth fixing kit (ref. <b>NSYAPFXWM</b> ) composed by fixing hardware and drilling jig										
External dimensions (mm)			Plinth height 100 mm		Plinth height 200 mm		Plinth height 100 mm		Plinth height 200 mm		
Height (A)	Width (B)	Depth (C)	Kit (4 corners + front and back panels)	Set of 2 side panels	Kit (4 corners + front and back panels)	Set of 2 side panels (x2)	Kit (4 corners + front and back panels)	Set of 2 side panels	Kit (4 corners + front and back panels)	Set of 2 side panels (x2)	
800	800	300	<b>NSYSPPFX8100</b>	<b>NSYSPPSX3100</b>	<b>NSYSPPFX8200</b>	<b>NSYSPPSX3200</b>	<b>NSYSPPFX8100H</b>	<b>NSYSPPSX3100H</b>	<b>NSYSPPFX8200H</b>	<b>NSYSPPSX3200H</b>	
1000	800	300	<b>NSYSPPFX8100</b>	<b>NSYSPPSX3100</b>	<b>NSYSPPFX8200</b>	<b>NSYSPPSX3200</b>	<b>NSYSPPFX8100H</b>	<b>NSYSPPSX3100H</b>	<b>NSYSPPFX8200H</b>	<b>NSYSPPSX3200H</b>	
	1000	300	<b>NSYSPPFX10100</b>	<b>NSYSPPSX3100</b>	<b>NSYSPPFX10200</b>	<b>NSYSPPSX3200</b>	<b>NSYSPPFX10100H</b>	<b>NSYSPPSX3100H</b>	<b>NSYSPPFX10200H</b>	<b>NSYSPPSX3200H</b>	
1200	800	300	<b>NSYSPPFX8100</b>	<b>NSYSPPSX3100</b>	<b>NSYSPPFX8200</b>	<b>NSYSPPSX3200</b>	<b>NSYSPPFX8100H</b>	<b>NSYSPPSX3100H</b>	<b>NSYSPPFX8200H</b>	<b>NSYSPPSX3200H</b>	
	1000	300	<b>NSYSPPFX10100</b>	<b>NSYSPPSX3100</b>	<b>NSYSPPFX10200</b>	<b>NSYSPPSX3200</b>	<b>NSYSPPFX10100H</b>	<b>NSYSPPSX3100H</b>	<b>NSYSPPFX10200H</b>	<b>NSYSPPSX3200H</b>	

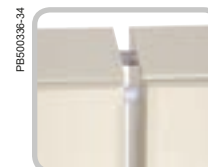
# Steel wall-mounting enclosures

## Accessories

### Coupling



Installation example.

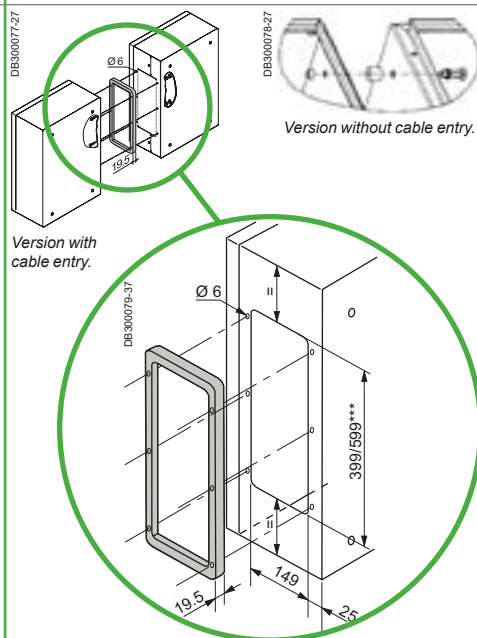


Version without cable entry.



Version with cable entry.

Characteristics	Coupling of S3D steel enclosures
	Available in 2 versions: <ul style="list-style-type: none"> <li>■ Coupling version without cable entry.</li> <li>■ Version with coupling frame allowing the entry of cables.</li> <li>■ Separation of 17 mm between 2 coupled enclosures, allowing full opening of the doors.</li> </ul> Allows lateral coupling of 2 enclosures. These frames allow the door to open to 120°.
Material	Polyester reinforced with fiberglass
Ingress protection rating	IP66 according to IEC 60529
Supply	<ul style="list-style-type: none"> <li>■ Kit made up of 4 spacers and their fixings (NSYAEUBUSC)</li> <li>■ Mounting by screws, included</li> </ul>
References	
Batch of 4 coupling spacers	<b>NSYAEUBUSC</b>
Coupling frame, 435 x 185 mm	<b>NSYAEUBU41SC</b>
Coupling frame, 635 x 185 mm	<b>NSYAEUBU61SC</b>



### Hoisting



Characteristics		Eyebolts
		Set of two M8 eyebolts. They are fixed directly to the body of the floor-standing enclosure. Cannot be installed with the canopy in place.
Material	Zinc-coated moulded steel	
Maximum load	200 kg per enclosure when slinging at 60°	
Options	Have your cut-outs made by our configured service, page 7. Paint touch-up pen, page 278	
Supply	Reinforcing brackets attached to the rings (these brackets also act as a drilling template)	
<b>Reference</b>		
Batch of 2 M8 eyebolts	<b>NSYAELYTCR8</b>	

### Protection



Characteristics		Protection canopy			
		Direct fixing to the body of the enclosure by 4 M6 screws. To be used for all outdoor installations.			
Material	Galvanised steel				
Finish	Epoxy-polyester paint				
Colour	RAL 7035 grey				
Supply	Delivered with the fixings required for installation				
Depth (mm)	Width (mm)	F (mm)	G (mm)	H (mm)	References
150	200	36	75	23	<b>NSYTJ2015</b>
	250	36	75	23	<b>NSYTJ2515</b>
	300	36	75	23	<b>NSYTJ3015</b>
	400	36	75	23	<b>NSYTJ4015</b>
	500	36	75	23	<b>NSYTJ5015</b>
200	500	36	130	23	<b>NSYTJ5020</b>
	600	36	130	23	<b>NSYTJ6020</b>
	250	36	130	23	<b>NSYTJ2520</b>
	300	36	130	23	<b>NSYTJ3020</b>
	400	36	130	23	<b>NSYTJ4020</b>
	800	36	130	23	<b>NSYTJ8020</b>
250	400	42	150	48	<b>NSYTJ4025</b>
	500	42	150	48	<b>NSYTJ5025</b>
	600	42	150	48	<b>NSYTJ6025</b>
	800	42	150	48	<b>NSYTJ8025</b>
300	600	42	200	48	<b>NSYTJ6030</b>
	800	42	200	48	<b>NSYTJ8030</b>
	1000	42	200	48	<b>NSYTJ10030</b>
	1200	42	200	48	<b>NSYTJ12030</b>
400	600	42	300	48	<b>NSYTJ6040</b>
	800	42	300	48	<b>NSYTJ8040</b>
	1000	42	300	48	<b>NSYTJ10040</b>
	1200	42	300	48	<b>NSYTJ12040</b>

CRN

### Locking systems

PB550389-42















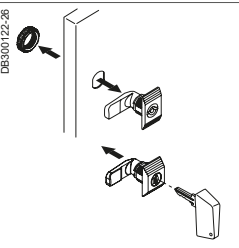
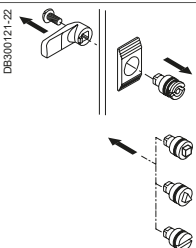
#### Lock for Spacial CRN enclosure

**NSYCDB3** 3 mm Ø standard double-bar lock.

By fixing the wing nut to the lock, the double-bar lock becomes a handle lock.

■ Operation using:

- wing key ref.: **NSYDBP** 
- key **NSYLD5** (according to DIN 43668) 

Type of lock	Insert references	Key references
 3 mm double bar	<b>NSYTDBCRN*</b>	 <b>NSYLD5</b>
□ 6 mm	<b>NSYTC6CRN</b>	 <b>NSYLC7</b>
□ 7 mm	<b>NSYTC7CRN</b>	 <b>NSYLC7</b>
□ 8 mm	<b>NSYTC8CRN</b>	 <b>NSYLC8</b>
△ 6.5 mm	<b>NSYTT6CRN</b>	 <b>NSYLT8</b>
△ 7 mm	<b>NSYTT7CRN</b>	 <b>NSYLT8</b>
△ 8 mm	<b>NSYTT8CRN</b>	 <b>NSYLT8</b>
 Screw driver lock	<b>NSYAEDLSD</b>	-
Complete manual handle lock, operated with key 405	<b>NSYCL405CRN</b>	
Complete manual handle lock, operated with key 220	<b>NSYCL220CRN</b>	
Complete metal lock, operated with key 405E	<b>NSYCLL405CRN</b>	
TJIS lock	<b>NSYTJIS</b>	-
TCRE1 lock	<b>NSYTCRE1</b>	-
TCRE12 lock	<b>NSYTCRE12</b>	-
 <b>DB300122-26</b>	 <b>DB300121-22</b>	
Lock change.	Insert change.	

\* Delivered with 1 metal key.

PB550391-32



PB550390-65



#### Padlock

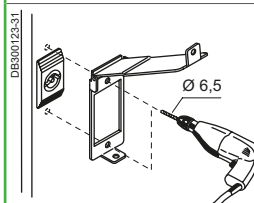
Ø 8 mm. Stainless-steel.

Ø 7.5 mm / Ø 10 mm.

#### References

 **NSYKPLM**

 **NSYCBCCRN**



**NSYKPLM** padlock assembly





### Locking systems

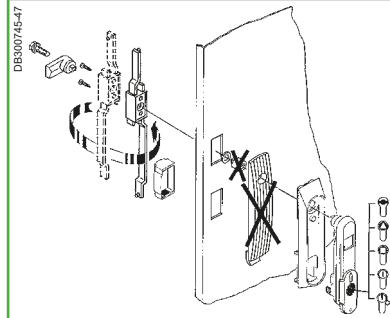
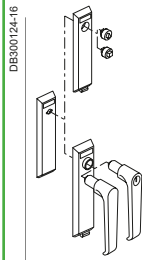


#### Lock for Spacial CRNG enclosure (three-point lock)

**Transformation of the standard lock to standardised variations in enclosures with three-point locks**      **Transformation of the standard lock to a retractable three-point lock with various types of inserts**

- Standard 5 mm double-bar lock for CRNG models.
- Operation using: key **NSYLDB5** (according to DIN 43668)

Type of insert	Insert references	Key references*	Type of insert	Locking systems references	Key references*
□ 6 mm square	NSYTC6ML	NSYLC7	Key operated bar lock	NSYTEDB5ML	NSYLDB5
□ 7 mm square	NSYTC7ML	NSYLC7	□ 7 mm square lock	NSYTEC7ML	NSYLC7
□ 8 mm square	NSYTC8ML	NSYLC8	□ 8 mm square lock	NSYTEC8ML	NSYLC8
△ 7 mm side triangle	NSYTT7ML	NSYLT8	△ 7 mm side triangle lock	NSYTET7ML	NSYLT8
△ 8 mm side triangle	NSYTT8ML	NSYLT8	△ 8 mm side triangle lock	NSYTET8ML	NSYLT8
Handle lock	NSYTSML		Lock operated with key type 405	NSYTEL405ML	
Handle lock operated using key 405 (included)	NSYTL405SML		Lock operated with reinforced key	NSYTERML	
TDB5PL lock	NSYTDB5PL	-	CRGE1 lock	NSYTCRGE1	-
			TJISML lock	NSYTJISML	-



\* Insert without keys (unless indicated).

#### Padlocking accessories

Padlocking system, positioned around the long rectangular escutcheon of the enclosures, to block access to the lock, for a Ø 9 mm padlock.

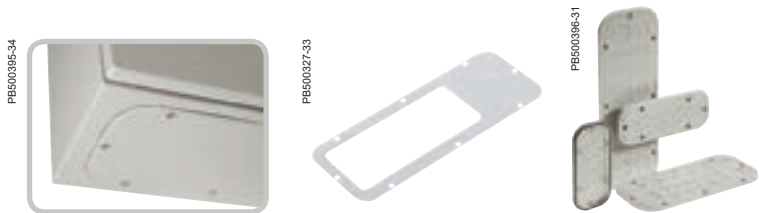
Padlocking system, to block access to the retractable handle, for a Ø 9 mm padlock.

#### References

NSYBCPL	NSYBCME
DB300617-27	DB300618-13

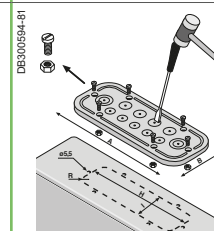
**CRN**

### Cable-gland plates



Characteristics	Standard	With FL cut-outs	Insulated
	The cable-gland plate for Spacial CRN guarantees water and dust tightness.	Cable-gland plate.	<ul style="list-style-type: none"> <li>With a polyurethane sealing gasket.</li> <li>Excellent thermal resistance.</li> <li>Pre-marked holes for cable entry plates.</li> </ul>
Material	Steel	Steel	Self-extinguishing ABS with 30 % fibreglass
Colour	RAL 7035	RAL 7035	RAL 7035
Ingress protection rating	IP66 according to IEC 60529	-	-
Installation	<ul style="list-style-type: none"> <li>Fixing with screws</li> <li>It is flattened with the body</li> </ul>	Fixing with screws	Pre-marked holes with diameter Pg for coupling of cable glands, membrane glands, tubes, etc
Supply	<ul style="list-style-type: none"> <li>Included as a standard with the Spacial CRN enclosure</li> <li>It is delivered with a separate seal: it allows easy cut-outs with no risk of damaging the seal and can be easily repainted</li> </ul>	Includes cut-outs for FL13 and FL21 according to the dimension	-

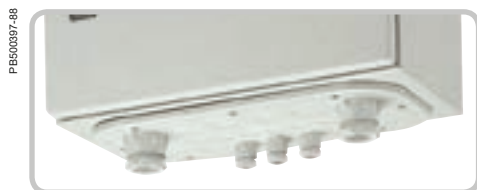
Width (mm)	Depth (mm)	To be coupled with entry	Fig. (only insulated)	References
200	150	0	-	NSYTLCRNO
250	150/200	A	1	NSYTLCRNA
300	150/200	B	2	NSYTLCRNB
400/500	150	B	3	NSYTLCRNB
400	200/250	C	3	NSYTLCRNC
500/600	200/250/300	D	4	NSYTLCRND
800	200/250/300	E*	-	NSYTLCRNC
	200/250/300	E**	3	-



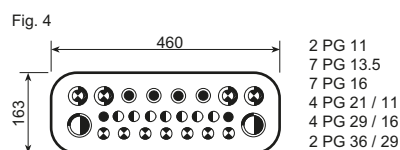
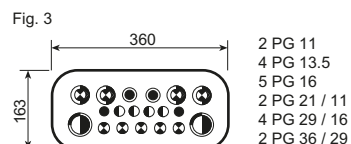
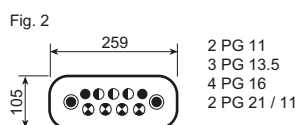
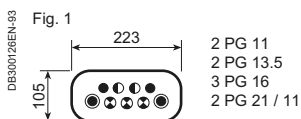
See cable entry on page 242.

\* Enclosure with 2 entries.

\*\* For type E cable entry, use two NSYTSACRNC.



Example of use (insulated).



- PG 11 (18.6 mm)
- PG 21 / 11 (28.3 / 18.6 mm)
- PG 13.5 (20.4 mm)
- PG 29 / 16 (37 / 22.5 mm)
- PG 16 (22.5 mm)
- PG 36 / 29 (47 / 37 mm)

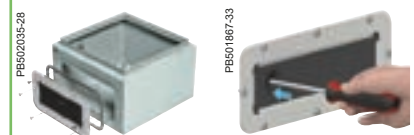
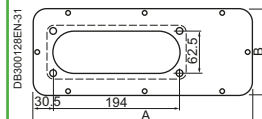
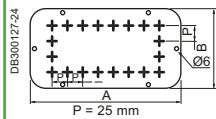
**CRNG**

### Cable-gland plates



Characteristics	Standard	For membrane glands	FlexiCable
	Cable entries.	Cable entries.	FlexiCable is an innovative cable-gland plate for simple and fast cable entrance. There is no need to drill holes: the creation of the cable entrances takes a few seconds. ■ <b>Cable diameter:</b> up to 26 mm.
Material	Steel	Steel	-
Colour	RAL 7035	RAL 7035	-
Ingress protection rating	IP66 according to IEC 60529	■ The membranes are built to accommodate water and dust tight cable entries in insulated material (flame classification V0), guaranteeing IP65 (to be ordered separately) ■ IP 65 according to IEC 60529	IP55 according to IEC 60529
Installation	■ Surface with a grid pattern in 25 mm intervals to facilitate perforation ■ Fixing with screws	Fixing with screws	<b>Installation possibilities:</b> replaces cable-gland plate (S3D or CRN-G) or directly on enclosure
Other characteristics	-	-	■ Exists in 5 sizes matching 46 sizes (132 models) of Spacial S3D steel wall-mounting enclosures ■ Fire resistant 650°C following IEC 60695-2-11 ■ Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1
Supply	Standard supply with the Spacial CRNG enclosures	-	■ 1 metallic frame with pre-mounted membrane ■ 1 gasket ■ Fixing hardware

Width (mm)	Depth (mm)	To be coupled with entry	Dimensions A x B (mm)	References	Effective cable entrance dimensions (mm)	References
600	300-400	-	495 x 220	-	428 x 153	<b>NSYTLGME</b>
	400	G		<b>NSYTLG</b>	<b>NSYTLG2FL**</b>	-
800	300-400	H*	345 x 130	<b>NSYTLG</b>	-	-
		-		<b>NSYTLD</b>	<b>NSYTLDFL**</b>	-
1000-1200	300-400	H*	445 x 130	-	-	2 x <b>NSYTLGME</b>
		-		<b>NSYTLE</b>	<b>NSYTLEFL**</b>	-
				-	-	2 x <b>NSYTLEME</b>



Mount FlexiCable on your CRNG enclosure. Create a hole with a screw driver.



Push the cable through FlexiCable and finish-off your installation.

**FlexiCable repair kit**

To fill-in unused holes. Tube of 90 ml.

**Reference**  
**NSYTLREP**

\* 2 entries.  
\*\* FL21 cut-outs.

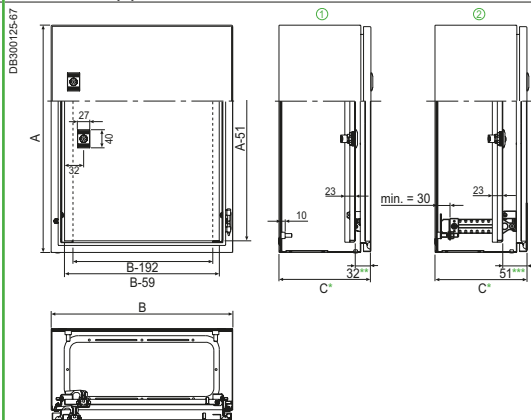
### Door



PB500884-54

#### Internal door

		<ul style="list-style-type: none"> <li>■ 3-mm double-bar lock.</li> <li>■ Not compatible with mounting with door stop and door contact. Consult us.</li> </ul>
Material		Steel
Colour		RAL 7035 grey
Installation		<ul style="list-style-type: none"> <li>■ The internal door can be mounted either on the front face of the enclosure or on step slides (not supplied as standard)</li> <li>■ To mount an inner door and a mounting plate at the same time on the step slides, is possible as standard</li> </ul>
Maximum load		30 kg/m <sup>2</sup>
Dimensions (mm)		References
Height (A)	Width (B)	
400	300	NSYPIN43
500	400	NSYPIN54
600	400	NSYPIN64
700	500	NSYPIN75
800	600	NSYPIN86 (1)
1000	600	NSYPIN106 (1)
	800	NSYPIN108 (1)
1200	600	NSYPIN126
	800	NSYPIN128 (1)



- ① NSYPIN... internal door fixed directly to the enclosure.  
 ② NSYPIN... internal door fixed to the adjustable NSYSDCR support. In this case, both the internal door and the mounting plate may be depth adjustable.

(1) Equipped with welded vertical profiles in order to facilitate cable management.

\* Dimension C according to general table on page 50. / \*\* Except H 1200 x W 600: 38.3. / \*\*\* Except H 1200 x W 600: 59 and H 1200 x W 800: 50.

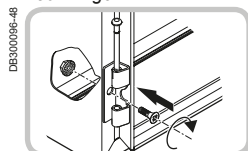
### Door accessories for CRNG



180° hinge.



120° hinge.



Characteristics	Door hinges
Material	Captive pin, indexed by a spring. Zamak body for ref. <b>NSYAEDH180S3D</b> , treated sheet-steel body for ref. <b>NSYAEDH120S3D</b> , aluminium pin
Maximum load	<ul style="list-style-type: none"> <li>■ For the 180° hinge, the maximum admissible load on the door is 20 kg/m<sup>2</sup></li> <li>■ For the 120° hinge, the maximum admissible load on the door is 50 kg/m<sup>2</sup></li> </ul>
Supply	Batch of 1 hinge, delivered with fixings
Models	References
180° hinge for CRNG enclosure	<b>NSYAEDH180S3D</b>
Standard 120° hinge for CRNG	<b>NSYAEDH120S3D</b>

# Steel wall-mounting enclosures

## Accessories

### Mounting rail



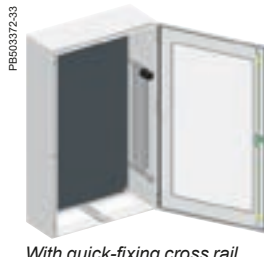
Ease of installation



With light cross rails and cage nut



Door switch mounting possibility



With quick-fixing cross rail



With DIN rail



Characteristics	Mounting rail
Material	Galvanised steel
Maximum load	<ul style="list-style-type: none"> <li>Static load: 6 kg (sides) and 1,5 kg (top)</li> <li>Dynamic load (transport horizontally): 2 kg according to ASTM D-4169-16</li> </ul>
Installation	In order to ensure the electrical continuity in all cases we recommend using an earthing cable NSYEL●●●D6 or NSYEL●●●D8, see page 278
Supply	Set of 2 cross rails
Cubicle depth (mm)	References
200	NSYSUCR200WM
250	NSYSUCR250WM
300	NSYSUCR300WM
400	NSYSUCR400WM



### Modular chassis

See page 288 for more informations about modular chassis.

#### Number of modules per chassis\*\* (every 18 mm)

Chassis reference	NSYDLM24	NSYDLM48*	NSYDLM48P*	NSYDLM84P*	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n° of modules	24	48	48	84	66	88	84	112	168	234

\* References NSYDLM48, NSYDLM48P and NSYDLM84P, the central row cannot receive modules at the height of the lock (check our technical instructions) when installed at the front of the enclosure. In this case, 1 module is sealed up.

\*\* DLM modular chassis.

The provided dimensions are with the modular chassis, which is the most commonly used accessory with this enclosure.

# Steel floor-standing enclosures

# Steel floor-standing enclosures

## Contents

PB500067-39



### Spacial SM-SF Steel floor-standing enclosures **72**

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### Associated applicative offers

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# Steel floor-standing enclosures

## Introduction

SM

> Multi-purpose **IP55 compact steel enclosure** for fast and simple solutions.



PB502402-28



### Robust

- Body made as a single piece with welded rear panel.
- Front part forming a rigid frame with welded corners.

PB502403-38



PB502404-30



### Practical

- Door rails, which can be height-adjustable and used for fixing cables.
- Can be installed adaptation profile in the front and rear of the enclosure and the universal 40-mm cross rail (1 row) in the rear provide the same fixing points as the modular enclosure.

PB500469-32



### Protection

- IP guaranteed by the rigidity of the enclosure, the expanded-polyurethane sealing gasket of the enclosure and the subsequent welding.
- Double-door enclosures with inner lock on the left door.

PB502405-8



### Comfort

- Handle with sturdy design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key.
- Easily interchangeable insert with one click.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)



# Steel floor-standing enclosures

## Introduction

➤ Multi-purpose IP55 modular steel enclosure.

**SF**

Adapts to all your needs.  
Assembled delivery for a ready-to-use solution.



PB502412-55

**SF kit**

Adapts to customer needs.  
Delivered as kit, with up to 600 different possible configurations.



PB502428-50

PB502440-50

Volume of packaging in kit supply

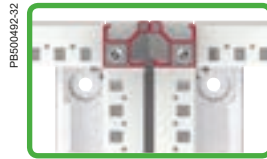
Assembled supply



PB502414-50

### Robust

- Structure formed from a single 15/10°-mm galvanised-steel section, with a high rigidity.
- Vertical uprights screwed together with connections of full steel. Placement and screwing of the 4 vertical uprights at the corners of the top and bottom frames. Fixing by 8 screws, one at each corner of the enclosure.
- Capable of withstanding 1000 kg distributed in its volume.



PB500492-32

### Reliable

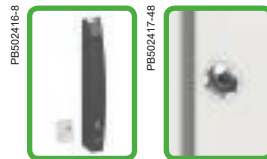
- The design of the profile creates a double protective barrier against the entry of water and dust when coupling two enclosures.
- The first barrier is the metal connection of the sections, and the second barrier is the EPDM gasket that guarantees the sealing.



PB503272-56

### Aesthetics

The built-in panels and handle with new design give the enclosure a new appearance.



PB502416-8

PB502417-48

### Comfort

- Handle with robust design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key.
- Panels with captive screws for easier assembly and dismantling.



PB502426-15

### Practical

Suspension of the rear panel using a self-centring piece to facilitate screwing.



PB502418-20

### Simple

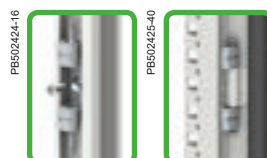
The new design allows enclosures to be coupled in any direction, adapting to all installation surfaces.



PB502419-12

### Accessible

The symmetric design of the profile allows doors to be installed on any side of the enclosure, opening to right or left, providing full accessibility to the enclosure.



PB502424-16

PB502425-40

### Fast

- The double system of cut-outs on the structure allows most accessories to be installed using self-tapping TORX T30 M6 screws or nuts.
- Clip-on quick-fixing cross rails, fixed with self-tapping screws.
- Door installation inserting the captive pins of the hinge in their housing in the door.

# Steel floor-standing enclosures

## Characteristics

SM

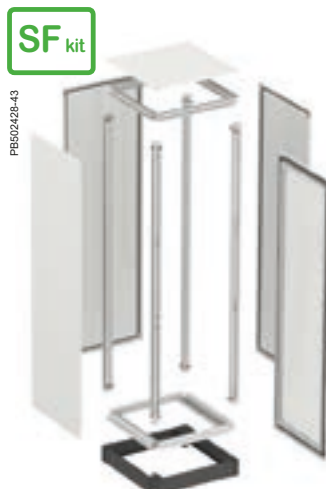
PB502401-32



Characteristics	Compact enclosures Spacial SM
	<p>Compact body with a front rigid frame with welded corners and rear panel 4 supports installed in depth to adjust and fix the equipment with a pitch of 25 mm</p> <p><b>Basic composition</b></p> <ul style="list-style-type: none"> <li>■ Front door with a reinforcement frame (horizontal rails height-adjustable)</li> <li>■ The double doors are overlapping, with system for fixing the left door</li> <li>■ Door reversible, 120° opening</li> <li>■ Welded rear panel</li> <li>■ 4 locking points system with handle 5 mm double-bar insert</li> <li>■ Cable-gland plate 1 entry</li> <li>■ Mounting plate support brackets</li> </ul> <p><b>Versions / Configurations</b></p> <ul style="list-style-type: none"> <li>■ Compact enclosure with plain door and mounting plate</li> <li>■ Compact enclosure with plain door and without mounting plate</li> <li>■ Compact enclosure with transparent Securit® glass door and without mounting plate</li> </ul> <p><b>Protection of personnel</b> Earthing accessories needed to ensure the grounding continuity, see page 277</p>
Material	Steel
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK10 for plain door and IK08 for transparent door according to IEC 62262
Standards	Compliance with enclosure standard IEC 62208 and the RoHS and REACH directive
Certifications (see page 574)	BV, DNV, UL * and cUL * 1 door: 1, 2, 3R, 4, 5 and 13 * 2 doors: 1, 12
Installation	Indoor / Outdoor* installation * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page 102
Maximum load	500 kg
Options	<ul style="list-style-type: none"> <li>■ Plinths, heights 100 mm and 200 mm, see page 96</li> <li>■ Lifting eyebolts, reference <b>NSYSMEB</b></li> <li>■ Internal door, see page 105</li> <li>■ Door accessories, see page 107</li> <li>■ Other locking options, see page 110</li> <li>■ Mounting plates and Telequick system, see page 212</li> </ul>

# Steel floor-standing enclosures

## Characteristics



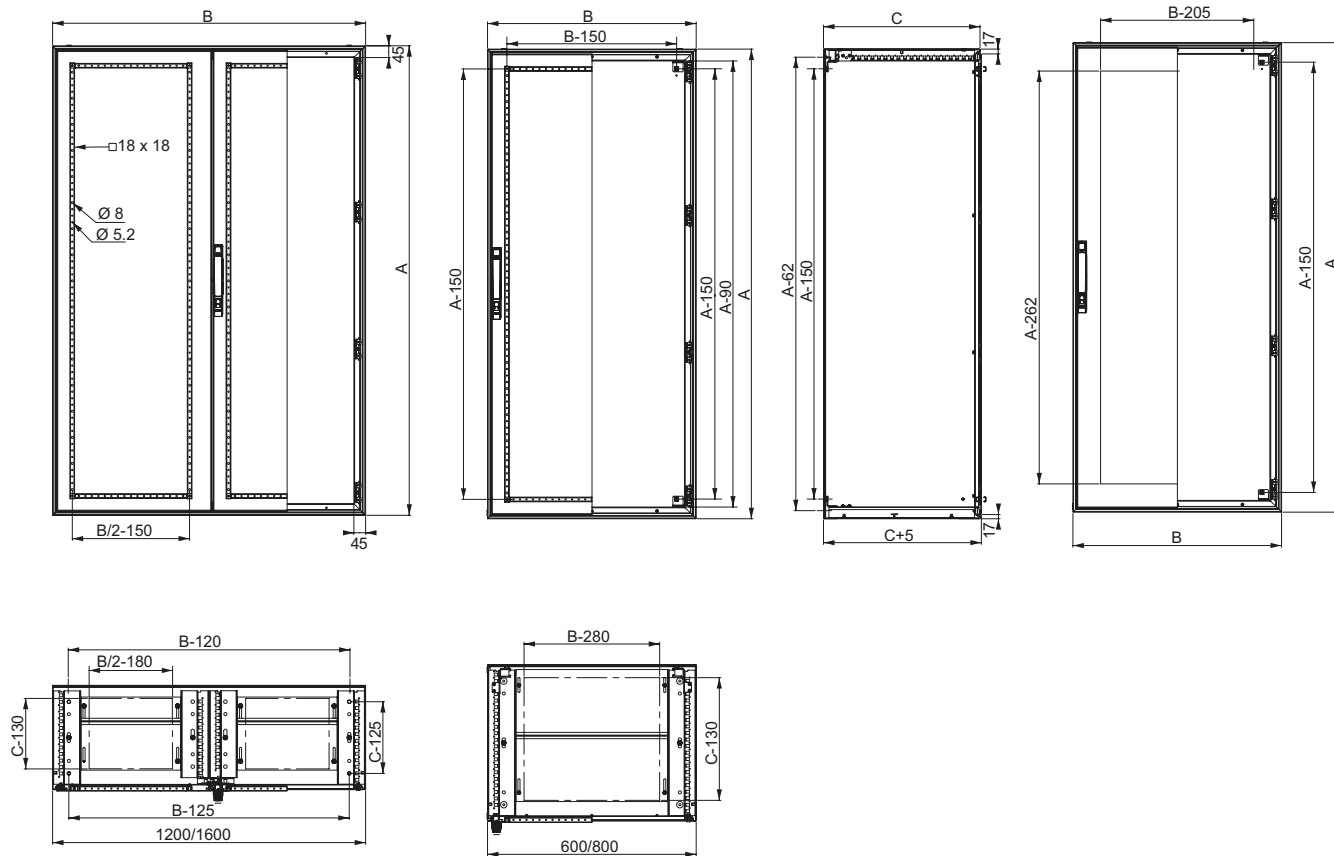
Suitable enclosures Spacial SF - Assembled supply	Suitable enclosures Spacial SF - Supplied as a kit
<p>Structure made up of vertical uprights joined with top and bottom frames Panels and doors built into the structure Formed from a single section and perforated structure with a pitch of 25 mm</p> <p><b>Basic composition</b></p> <ul style="list-style-type: none"> <li>■ Front door with a reinforcement frame (horizontal rails height-adjustable) and a trim plate</li> <li>■ The double doors are overlapping, with system for fixing the left door</li> <li>■ Door reversible, 120° opening</li> <li>■ Rear panel screwed on with captive screws</li> <li>■ Removable roof</li> <li>■ 4 locking points system with handle 5 mm double-bar insert</li> <li>■ Mounting plate support brackets</li> <li>■ Mounting plate sliding rails</li> <li>■ 2 quick fixing cross rails</li> </ul> <p><b>Versions / Configurations</b></p> <ul style="list-style-type: none"> <li>■ Modular enclosure with plain door and mounting plate</li> <li>■ Modular enclosure with plain door and without mounting plate</li> <li>■ Modular enclosure with transparent Securit® glass door and without mounting plate</li> </ul> <p><b>Protection of personnel</b> Earthing accessories needed to ensure the grounding continuity, see page 277</p>	<p>Structure made up of vertical uprights joined with top and bottom frames Panels and doors built into the structure Formed from a single section and perforated structure with a pitch of 25 mm</p> <p><b>Basic composition</b></p> <ul style="list-style-type: none"> <li>■ Front door with a reinforcement frame (horizontal rails height-adjustable)</li> <li>■ The double doors are overlapping, with system for fixing the left door</li> <li>■ Door reversible, 120° opening</li> <li>■ Rear panel to be screwed on with captive screws</li> <li>■ Removable roof delivered with top frame</li> <li>■ 4 locking points system with handle 5 mm double-bar insert</li> <li>■ Mounting plate support brackets delivered with top &amp; bottom frames kit</li> <li>■ Mounting plate sliding rails delivered with top &amp; bottom frames kit</li> <li>■ 2 quick fixing cross rails delivered with top &amp; bottom frames kit</li> </ul> <p><b>Versions / Configurations</b></p> <ul style="list-style-type: none"> <li>■ Uprights kit</li> <li>■ Top and bottom frames kit</li> <li>■ Rear panel kit</li> <li>■ Door kit (plain or transparent)</li> </ul> <p><b>Protection of personnel</b> Earthing accessories needed to ensure the grounding continuity, see page 277</p>
Steel	
Structured finish, epoxy-polyester powder	
RAL 7035 grey	
IP55 according to IEC 60529	IP55 according to IEC 60529
IK10 for plain door and IK08 for transparent door according to IEC 62262	IK10 for plain door and IK08 for transparent door according to IEC 62262
Compliance with enclosure standard IEC 62208 and the RoHS and REACH directive	
<p>BV, DNV, UL and cUL*</p> <p>*1 door: 1, 3R, 12</p> <p>*2 doors: 1, 3R, 12</p>	<p>BV, DNV, UL and cUL*</p> <p>*1 door: 1, 3R, 12</p> <p>*2 doors: 1, 3R, 12</p>
<p>Indoor / Outdoor* installation</p> <p>* Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion)</p> <p>Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page 102</p>	<p>Indoor / Outdoor* installation</p> <p>* Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion)</p> <p>Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page 102</p>
1000 kg	1000 kg
<ul style="list-style-type: none"> <li>■ Side panels options, see page 89</li> <li>■ Enclosure suites options, see page 90</li> <li>■ Plinths, heights 100 mm and 200 mm, see page 92</li> <li>■ Cable-gland plates, see page 98</li> <li>■ Lifting systems, see page 100</li> <li>■ Roof options, see page 102</li> <li>■ Door accessories, see page 107</li> <li>■ Other locking options, see page 110</li> <li>■ Mounting plates and Telequick system, see page 212</li> </ul>	<ul style="list-style-type: none"> <li>■ Door trim plates, see page 108</li> <li>■ Side panels options, see page 89</li> <li>■ Enclosure suites options, see page 90</li> <li>■ Plinths, heights 100 mm and 200 mm, see page 96</li> <li>■ Cable-gland plates, see page 98</li> <li>■ Lifting systems, see page 100</li> <li>■ Roof options, see page 102</li> <li>■ Other locking options, see page 110</li> <li>■ Mounting plates and Telequick system, see page 212</li> </ul>

# Steel floor-standing enclosures

## Dimensions

SM

DB300190EN-176



Models with a width of 1200 mm without top/bottom adjustment rails

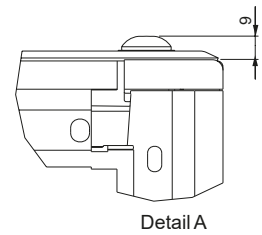
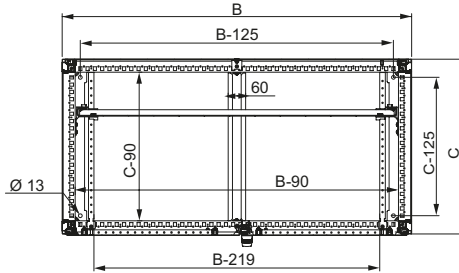
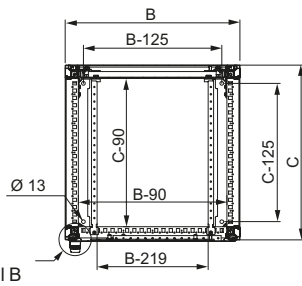
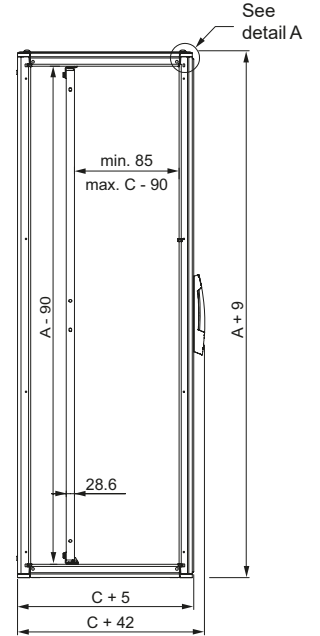
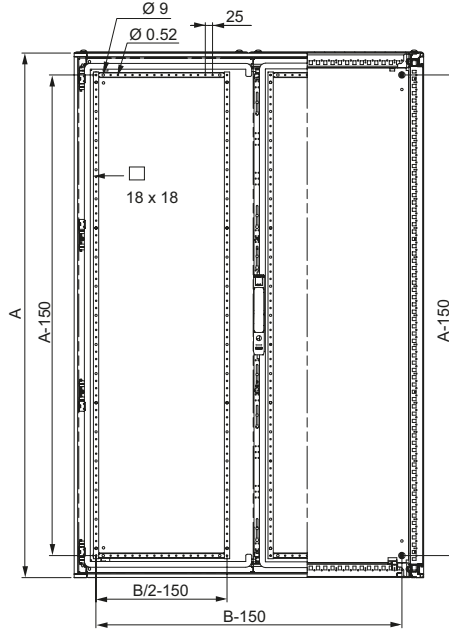
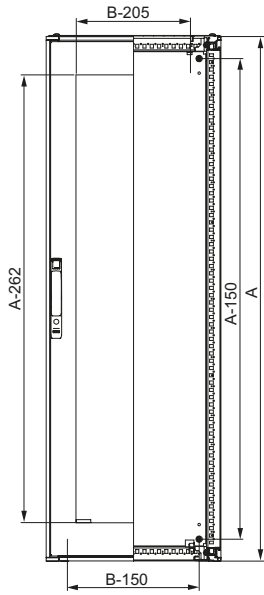
# Steel floor-standing enclosures

## Dimensions

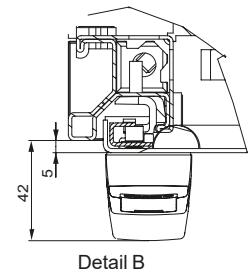
SF

SF kit

DB30085ZEN



See detail B



# Steel floor-standing enclosures

## Selection guide

SM

PE500480-12



PE500119-14



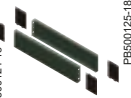
PE500481-12



PB500123-18



PB500124-18



PB500125-18



PB500126-13



Characteristics			Door			Plinth					
Dimensions (mm)			No. of doors	Plain		Transparent	Height 100 mm		Height 200 mm		
H (A)	W (B)	D (C)		Without mounting plate	With mounting plate	Without mounting plate	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.	
1200	800	300	1	NSYSM12830	NSYSM12830P	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
	1000	300	2	NSYSM1210302D	NSYSM1210302DP	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200	
	1200	400	2	NSYSM1212402D	NSYSM1212402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
1400	600	300	1	NSYSM14630	NSYSM14630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200	
		400	1	NSYSM14640	NSYSM14640P	-	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	
	800	300	1	NSYSM14830	NSYSM14830P	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
		400	1	NSYSM14840	NSYSM14840P	NSYSM14840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
		1000	400	2	NSYSM1410402D	NSYSM1410402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		1200	400	2	NSYSM1412402D	NSYSM1412402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1600	600	300	1	NSYSM16630	NSYSM16630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200	
		400	1	NSYSM16640	NSYSM16640P	NSYSM16640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	
	800	300	1	NSYSM16830	NSYSM16830P	NSYSM16830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
		400	1	NSYSM16840	NSYSM16840P	NSYSM16840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
	1000	300	2	NSYSM1610302D	NSYSM1610302DP	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200	
		400	2	NSYSM1610402D	NSYSM1610402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
	1200	300	2	NSYSM1612302D	NSYSM1612302DP	-	NSYSPF12100	NSYSPS3100	NSYSPF12200	NSYSPS3200	
		400	2	NSYSM1612402D	NSYSM1612402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
	1800	600	300	1	NSYSM18630	NSYSM18630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
			400	1	NSYSM18640	NSYSM18640P	NSYSM18640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
			500	1	NSYSM18650	NSYSM18650P	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
		800	300	1	NSYSM18830	NSYSM18830P	NSYSM18830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
400			1	NSYSM18840	NSYSM18840P	NSYSM18840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
500			1	NSYSM18850	NSYSM18850P	NSYSM18850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	
600		600	1	NSYSM18860	NSYSM18860P	-	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	
		1000	400	1	NSYSM181040	NSYSM181040P	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
			400	2	NSYSM1810402D	NSYSM1810402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
500		2	NSYSM1810502D	NSYSM1810502DP	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200		
		1200	400	2	NSYSM1812402D	NSYSM1812402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
			500	2	NSYSM1812502D	NSYSM1812502DP	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200
1600		400	2	NSYSM1816402D	NSYSM1816402DP	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	
		500	2	NSYSM1816502D	NSYSM1816502DP	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	
2000		600	300	1	NSYSM20630	NSYSM20630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
			400	1	NSYSM20640	NSYSM20640P	NSYSM20640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
			500	1	NSYSM20650	NSYSM20650P	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
		800	300	1	NSYSM20830	NSYSM20830P	NSYSM20830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
	400		1	NSYSM20840	NSYSM20840P	NSYSM20840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
	500		1	NSYSM20850	NSYSM20850P	NSYSM20850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	
	600		1	NSYSM20860	NSYSM20860P	NSYSM20860T	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	
	1000	400	2	NSYSM2010402D	NSYSM2010402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
		500	2	NSYSM2010502D	NSYSM2010502DP	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	
	1200	400	2	NSYSM2012402D	NSYSM2012402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
		500	2	NSYSM2012502D	NSYSM2012502DP	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	
		600	2	NSYSM2012602D	NSYSM2012602DP	-	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	
	1600	400	2	NSYSM2016402D	NSYSM2016402DP	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	
		500	2	NSYSM2016502D	NSYSM2016502DP	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	
		600	2	NSYSM2016602D	NSYSM2016602DP	-	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200	

# Steel floor-standing enclosures

## Selection guide

**SM**

PB500475-12



PB500477-7



PB500482-10



PB500483-13



PB500473-12

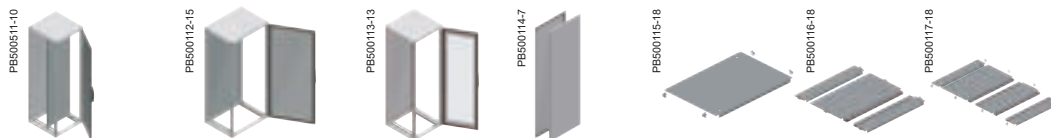


Characteristics			Inner door	Mounting plate	Vertical uprights		Off-centre 19" swing rack	Centred 19" swing rack		
Dimensions (mm)					No. of doors	Standard			Technical	
H (A)	W (B)	D (C)								
1200	800	300	1	-	NSYMP128	-	NSYTVR12	-	-	
	1000	300	2	-	NSYMP1210	-	NSYTVR12	-	-	
	1200	400	2	-	NSYMP1212	-	NSYTVR12	-	-	
1400	600	300	1	-	NSYMP146	-	NSYTVR14	-	-	
		400	1	-	NSYMP146	-	NSYTVR14	-	-	
	800	300	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27	
		400	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27	
	1000	400	2	-	NSYMP1410	-	NSYTVR14	-	-	
	1200	400	2	-	NSYMP1412	-	NSYTVR14	-	-	
1600	600	300	1	NSYID166	NSYMP166	-	NSYTVR16	-	-	
		400	1	NSYID166	NSYMP166	-	NSYTVR16	-	-	
	800	300	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31	
		400	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31	
	1000	300	2	-	NSYMP1610	-	NSYTVR16	-	-	
		400	2	-	NSYMP1610	-	NSYTVR16	-	-	
	1200	300	2	-	NSYMP1612	-	NSYTVR16	-	-	
		400	2	-	NSYMP1612	-	NSYTVR16	-	-	
	1800	600	300	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
			400	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
500			1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-	
800		300	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
		400	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
		500	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
		600	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
1000		400	1	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
		400	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
		500	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
1200		400	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-	
		500	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-	
1600		400	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-	
		500	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-	
2000		600	300	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
			400	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
	500		1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-	
	800	300	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
		400	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
		500	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
		600	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
	1000	400	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-	
		500	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-	
	1200	400	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
		500	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
		600	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
	1600	400	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	
		500	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	
		600	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	

# Steel floor-standing enclosures

## Selection guide

SF



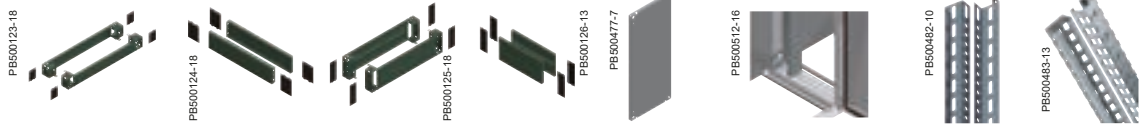
Nominal dimensions (mm)			No. of doors	Door			Side panels	Cable-entry plate			
Height (A)	Width (B)	Depth (C)		Without mounting plate	With mounting plate	Transparent Without mounting plate		Plain	1 entry	2 entries	
1200	600	400	1	NSYSF12640	NSYSF12640P	-	NSY2SP124	NSYEC64	NSYEC641	-	
		600	1	NSYSF12660	NSYSF12660P	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662	
	800	400	1	NSYSF12840	NSYSF12840P	-	NSY2SP124	NSYEC84	NSYEC841	-	
1400	600	600	1	NSYSF12860	NSYSF12860P	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862	
		400	1	NSYSF14640	NSYSF14640P	-	NSY2SP144	NSYEC64	NSYEC641	-	
	800	400	1	NSYSF14840	NSYSF14840P	-	NSY2SP144	NSYEC84	NSYEC841	-	
1600	600	600	1	NSYSF16660	NSYSF16660P	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662	
		800	1	NSYSF16680	NSYSF16680P	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682	
	800	600	1	NSYSF16860	NSYSF16860P	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862	
1800	400	400	1	NSYSF16880	NSYSF16880P	-	NSY2SP168	NSYEC88	NSYEC881	NSYEC882	
		500	1	NSYSF18440	-	-	NSY2SP184	NSYEC44	NSYEC441	-	
		600	1	NSYSF18450	-	-	NSY2SP185	NSYEC45	NSYEC451	-	
	600	400	1	NSYSF18460	-	-	NSY2SP186	-	NSYEC461	-	
		500	1	NSYSF18640	NSYSF18640P	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-	
		600	1	NSYSF18650	NSYSF18650P	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-	
	800	400	1	NSYSF18660	NSYSF18660P	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662	
		500	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682	
		600	1	NSYSF18840	NSYSF18840P	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-	
	1000	400	500	1	NSYSF18850	NSYSF18850P	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-
			600	1	NSYSF18860	NSYSF18860P	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
			600	2	NSYSF188602D	NSYSF188602DP	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
600		400	1	NSYSF181040	NSYSF181040P	-	NSY2SP184	NSYEC104	NSYEC1041	-	
		500	1	NSYSF1810402D	NSYSF1810402DP	-	NSY2SP184	NSYEC104	NSYEC1041	-	
		500	2	NSYSF181050	NSYSF181050P	-	NSY2SP185	NSYEC105	NSYEC1051	-	
1200	600	400	1	NSYSF181060	NSYSF181060P	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062	
		500	2	NSYSF1810602D	NSYSF1810602DP	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062	
		600	2	NSYSF1812402D	NSYSF1812402DP	-	NSY2SP184	NSYEC124	NSYEC1241	-	
	500	400	2	NSYSF1812502D	NSYSF1812502DP	-	NSY2SP185	NSYEC125	NSYEC1251	-	
		600	2	NSYSF1812602D	NSYSF1812602DP	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262	
		600	2	NSYSF1812602D	NSYSF1812602DP	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262	
2000	300	500	1	NSYSF20350	-	-	NSY2SP205	NSYEC35	NSYEC351	-	
		600	1	NSYSF20360	-	-	NSY2SP206	NSYEC36	NSYEC361	-	
		800	1	NSYSF20380	-	-	NSY2SP208	-	NSYEC381	-	
	400	400	1	NSYSF20440	-	-	NSY2SP204	NSYEC44	NSYEC441	-	
		500	1	NSYSF20450	-	-	NSY2SP205	NSYEC45	NSYEC451	-	
		600	1	NSYSF20460	-	-	NSY2SP206	NSYEC46	NSYEC461	-	
	600	400	800	1	NSYSF20480	-	-	NSY2SP208	NSYEC84	NSYEC481	-
			500	1	NSYSF20640	NSYSF20640P	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
			600	1	NSYSF20650	NSYSF20650P	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-
		800	600	1	NSYSF20660	NSYSF20660P	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662
			800	1	NSYSF20680	NSYSF20680P	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682
			400	1	NSYSF20840	NSYSF20840P	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-
	800	500	500	1	NSYSF20850	NSYSF20850P	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-
			600	1	NSYSF20860	NSYSF20860P	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
			600	2	NSYSF208602D	NSYSF208602DP	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
		800	600	1	NSYSF20880	NSYSF20880P	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882
			400	1	NSYSF201040	NSYSF201040P	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-
			400	2	NSYSF2010402D	NSYSF2010402DP	-	NSY2SP204	NSYEC104	NSYEC1041	-
	1000	500	500	1	NSYSF201050	NSYSF201050P	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-
			600	2	NSYSF2010502D	NSYSF2010502DP	-	NSY2SP205	NSYEC105	NSYEC1051	-
			600	1	NSYSF201060	NSYSF201060P	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
		600	600	2	NSYSF2010602D	NSYSF2010602DP	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
			800	1	NSYSF201080	NSYSF201080P	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082
			400	2	NSYSF2012402D	NSYSF2012402DP	-	NSY2SP204	NSYEC124	NSYEC1241	-
1200	500	500	2	NSYSF2012502D	NSYSF2012502DP	-	NSY2SP205	NSYEC125	NSYEC1251	-	
		600	2	NSYSF2012602D	NSYSF2012602DP	-	NSY2SP206	NSYEC126	NSYEC1261	NSYEC1262	
		800	2	NSYSF2012802D	NSYSF2012802DP	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282	
	1600	400	2	NSYSF2016402D	NSYSF2016402DP	-	NSY2SP204	NSYEC164	NSYEC1641	-	
		500	2	NSYSF2016502D	NSYSF2016502DP	-	NSY2SP205	NSYEC165	NSYEC1651	-	
		600	2	NSYSF2016602D	NSYSF2016602DP	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662	
2200	400	600	1	NSYSF22460	-	-	NSY2SP226	-	NSYEC461	-	
		600	1	NSYSF22660	NSYSF22660P	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662	
		800	1	NSYSF22680	NSYSF22680P	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682	
	800	600	600	1	NSYSF22860	NSYSF22860P	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862
			800	1	NSYSF22880	NSYSF22880P	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882
		1000	600	1	NSYSF221060	NSYSF221060P	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062
	1200	600	2	NSYSF2212602D	NSYSF2212602DP	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262	
		800	2	NSYSF2212802D	NSYSF2212802DP	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282	



# Steel floor-standing enclosures

## Selection guide

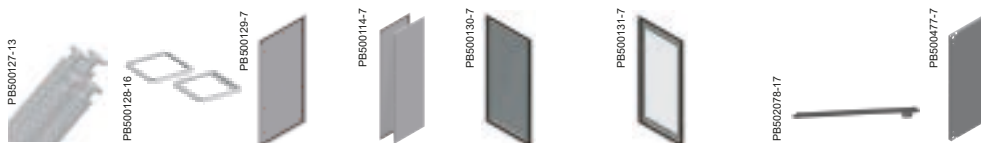
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Nominal dimensions (mm)			Plinth				Mounting plate	Intermediate mounting plate	Vertical uprights	
Height (A)	Width (B)	Depth (C)	Height 100 mm		Height 200 mm				Standard	Technical
			Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.				
1200	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12
1400	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14
1600	600	600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP166	NSYSIMP16	-	NSYTVR16
	800	600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP168	NSYSIMP16	-	NSYTVR16
		800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP168	NSYSIMP16	-	NSYTVR16
1800	400	400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR18	NSYTVR18
		500	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	-	-	NSYVR18	NSYTVR18
		600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR18	NSYTVR18
		600	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
	600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
	800	400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		500	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
		600	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18	
	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18	
	500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18	
	600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18	
1200	400	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18	
	500	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18	
	600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18	
	600	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18	
2000	300	500	NSYSPF3100	NSYSPS5100	NSYSPF3200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
		600	NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
		800	NSYSPF3100	NSYSPS8100	NSYSPF3200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
		400	NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	-	-	NSYVR20	NSYTVR20
	400	500	NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
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		800	NSYSPF4100	NSYSPS8100	NSYSPF4200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
		600	400	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP206	NSYSIMP20	NSYVR20
	600	500	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
		400	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
500		NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20	
600		NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20	
800		NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20	
1000		400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
1000	400	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	
	500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	
	500	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	
	600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	
	600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	
	800	NSYSPF10100	NSYSPS8100	NSYSPF10200	NSYSPS8200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20	
	1200	400	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
	500	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20	
1600	600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20	
	800	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20	
	400	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20	
	500	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20	
2200	400	600	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	-	-	NSYVR22	NSYTVR22
		600	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
	600	800	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
		800	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
	800	800	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
		1000	600	NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2210	NSYSIMP22	NSYVR22
	1200	600	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22
		800	NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22

# Steel floor-standing enclosures

## Selection guide

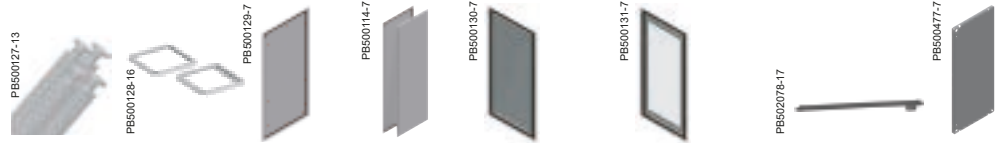


Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate	
Height (A)	Width (B)	Depth (C)										
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
	1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
800		400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		600	1	NSYSFV16	NSYSFC86	NSYBP168	NSY2SP166	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
	1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	NSYTRIM4SF	-
			500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	NSYTRIM4SF	-
			600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	NSYTRIM4SF	-
			800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	NSYTRIM4SF	-
600		400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
800		400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		800	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188	
1000		800	800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
			800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188
		1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
			400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
1200	500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
		1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
	600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810		
		1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
	800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810		
		400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812	
	500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812		
		600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812	
800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812			

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

# Steel floor-standing enclosures

## Selection guide



Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate	
Height (A)	Width (B)	Depth (C)										
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	NSYTRIM3SF	-	
		600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	NSYTRIM3SF	-	
		800	1	NSYSFV20	NSYSFC38	NSYBP203	NSY2SP208	NSYSFD203	-	NSYTRIM3SF	-	
	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	NSYTRIM4SF	-	
		500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	NSYTRIM4SF	-	
		600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	NSYTRIM4SF	-	
		800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	NSYTRIM4SF	-	
	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYSFD206T	NSYTRIM6SF	NSYMP206
		500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYSFD206T	NSYTRIM6SF	NSYMP206
		600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYSFD206T	NSYTRIM6SF	NSYMP206
		800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYSFD206T	NSYTRIM6SF	NSYMP206
	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYSFD208T	NSYTRIM8SF	NSYMP208
		500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYSFD208T	NSYTRIM8SF	NSYMP208
		600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYSFD208T	NSYTRIM8SF2D	NSYMP208
		800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYSFD208T	NSYTRIM8SF	NSYMP208
	800	800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYSFD208T	NSYTRIM8SF2D	NSYMP208
		800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYSFD208T	NSYTRIM8SF2D	NSYMP208
	1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYSFD2010T	NSYTRIM10SF2D	NSYMP2010
		500	1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		500	2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYSFD2010T	NSYTRIM10SF2D	NSYMP2010
		600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYSFD2010T	NSYTRIM10SF2D	NSYMP2010
		800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
800		2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYSFD2010T	NSYTRIM10SF2D	NSYMP2010	
1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012	
	500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012	
	600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012	
	800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012	
1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYSFD20162D	NSYTRIM16SF2D	NSYMP2016	
	500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYSFD20162D	NSYTRIM16SF2D	NSYMP2016	
	600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYSFD20162D	NSYTRIM16SF2D	NSYMP2016	
2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	NSYTRIM4SF	-	
		500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	NSYTRIM4SF	-	
		600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	NSYTRIM4SF	-	
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	600	400	1	NSYSFV22	NSYSFC64	NSYBP226	NSY2SP224	NSYSFD226	NSYSFD226T	NSYSFD226T	NSYTRIM6SF	NSYMP226
		500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYSFD226T	NSYTRIM6SF	NSYMP226
		600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYSFD226T	NSYTRIM6SF	NSYMP226
		800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYSFD226T	NSYTRIM6SF	NSYMP226
	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYSFD228T	NSYTRIM8SF	NSYMP228
		500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYSFD228T	NSYTRIM8SF	NSYMP228
		600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYSFD228T	NSYTRIM8SF	NSYMP228
		800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYSFD228T	NSYTRIM8SF	NSYMP228
	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

# Steel floor-standing enclosures

## Specific accessories overview

PB502427-57



### Composition accessories

#### Panels



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#### Coupling accessories



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#### Roofs



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#### Wall-mounting



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#### Floor



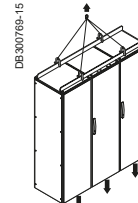
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#### Cable entry



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#### Lifting systems



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#### Doors



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#### Locking systems



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# Steel floor-standing enclosures

## Specific accessories overview

### Installation accessories

PB502434-30



#### Mounting acc.

PB502435-31



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#### Telequick system

PB502436-27



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### Power distribution

DB404943-35



#### Busbar supports

DB404943-40



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# Steel floor-standing enclosures

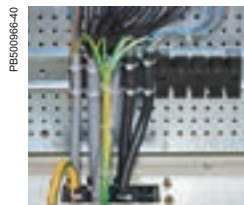
## Common accessories overview

PB502439-55



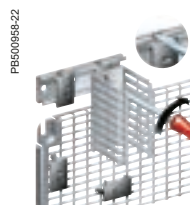
### Cable management

#### Cable holding



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#### Cable ducting



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### Thermal management

#### Heaters



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#### Ventilation



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#### Cooling units



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### Others

#### Door accessories



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#### Lighting



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#### Earthing



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# Steel floor-standing enclosures

## Accessories

### Panels

SF



SF



SF



Characteristics	Side door	External fixing	Internal fixing	
	Door for the side of the enclosure, replaces the side panel. Installation directly on the structure of the enclosure, opening 120°. Lock with handle and 5-mm double-bar insert. 4 locking points. Reinforcement frame, cut-out with a pitch of 25 mm. Opening to right or left.	Set of 2 side panels fixed from the outside of the enclosure.	Set of 2 side panels fixed from the enclosure, preventing access by unauthorized persons. Very useful in public spaces.	
Material	Steel	Steel	Steel	
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	
Colour	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP55 according to IEC 60529	
Supply	One side door, four hinges, four catches and handle lock	2 side panels, with sealing gasket and bag of accessories	2 side panels, with sealing gasket and bag of accessories	
Height (mm)	Depth (mm)	References		
1200	400	-	NSY2SP124	-
	500	-	NSY2SP125	-
	600	NSYSFD126	NSY2SP126	NSY2SPI126
	800	NSYSFD128	NSY2SP128	-
1400	400	-	NSY2SP144	-
	500	-	NSY2SP145	-
	600	NSYSFD146	NSY2SP146	-
	800	NSYSFD148	NSY2SP148	-
1600	400	-	NSY2SP164	-
	500	-	NSY2SP165	-
	600	NSYSFD166	NSY2SP166	-
	800	NSYSFD168	NSY2SP168	-
1800	400	NSYSFD184	NSY2SP184	-
	500	NSYSFD185	NSY2SP185	NSY2SPI185
	600	NSYSFD186	NSY2SP186	NSY2SPI186
	800	NSYSFD188	NSY2SP188	NSY2SPI188
	1000	-	-	-
2000	400	NSYSFD204	NSY2SP204	NSY2SPI204
	500	NSYSFD205	NSY2SP205	NSY2SPI205
	600	NSYSFD206	NSY2SP206	NSY2SPI206
	800	NSYSFD208	NSY2SP208	NSY2SPI208
	1000	-	-	-
	1200	-	-	-
2200	400	NSYSFD224	NSY2SP224	-
	500	NSYSFD225	NSY2SP225	-
	600	NSYSFD226	NSY2SP226	NSY2SPI226
	800	NSYSFD228	NSY2SP228	NSY2SPI228
	1000	-	-	-



# Steel floor-standing enclosures

## Accessories

### Panels



Quick-fixing side panels	Internal fixing rear panel	Partition panel
Set of 2 side panels fixed to the outside of the enclosure by clipping locks. No sealing gasket.	Rear panel fixed from the inside of the enclosure, preventing unauthorized personnel from accessing and removing it. Normally used in public spaces.	Partition panel for direct fixing to the structure, guarantees a water/dustproof protection of IP10 between enclosure suites.
Steel	Steel	Galvanised steel
Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	-
RAL 7035 grey	RAL 7035 grey	-
IP40 according to IEC 60529	IP55 according to IEC 60529	IP10 according to IEC 60529
2 side panels and fixing elements	1 rear panel and fixing elements	1 partition panel, sealing gasket and fixing elements
-	-	-
-	-	-
<b>NSY2SPQ126</b>	-	-
<b>NSY2SPQ128</b>	-	-
-	-	-
-	-	-
<b>NSY2SPQ146</b>	-	-
<b>NSY2SPQ148</b>	-	-
-	-	-
-	-	-
<b>NSY2SPQ166</b>	-	<b>NSYPPS166</b>
<b>NSY2SPQ168</b>	<b>NSYBPI168</b>	<b>NSYPPS168</b>
-	-	<b>NSYPPS184</b>
-	-	<b>NSYPPS185</b>
<b>NSY2SPQ186</b>	-	<b>NSYPPS186</b>
<b>NSY2SPQ188</b>	-	-
-	<b>NSYBPI1810</b>	-
-	<b>NSYBPI204</b>	<b>NSYPPS204</b>
-	-	<b>NSYPPS205</b>
<b>NSY2SPQ206</b>	<b>NSYBPI206</b>	<b>NSYPPS206</b>
<b>NSY2SPQ208</b>	<b>NSYBPI208</b>	<b>NSYPPS208</b>
-	<b>NSYBPI2010</b>	-
-	<b>NSYBPI2012</b>	-
-	-	-
-	-	-
<b>NSY2SPQ226</b>	<b>NSYBPI226</b>	<b>NSYPPS226</b>
<b>NSY2SPQ228</b>	<b>NSYBPI228</b>	<b>NSYPPS228</b>
-	<b>NSYBPI2210</b>	-

### Trim cap

Trim cap for external fixing panels, both sides and rear.

Polyamide 6

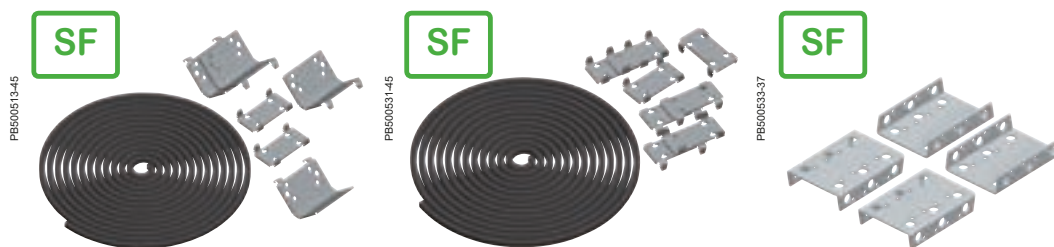
-  
RAL 7035 grey  
50 units

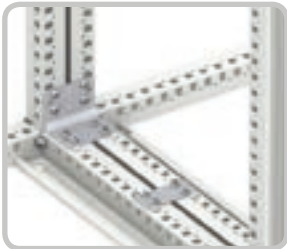
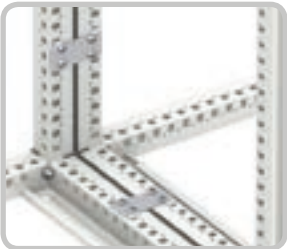
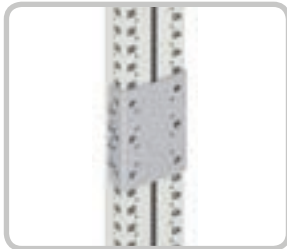
**Reference**  
**NSYCSP**

# Steel floor-standing enclosures

## Accessories

### Coupling accessories

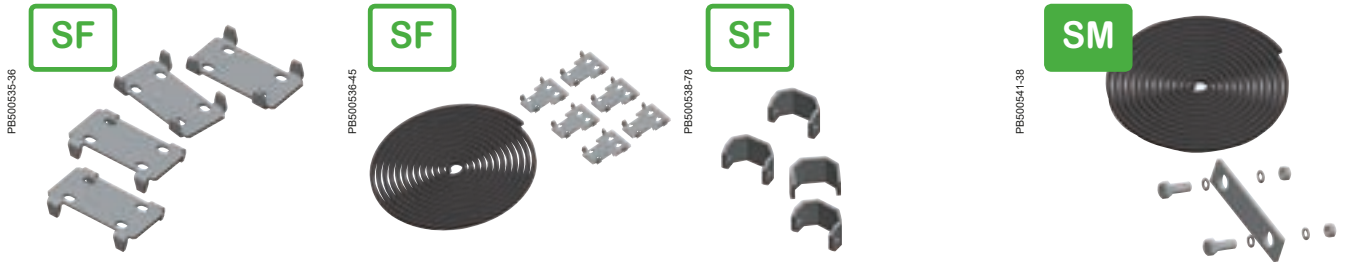


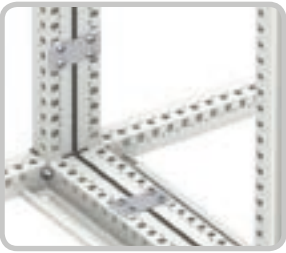

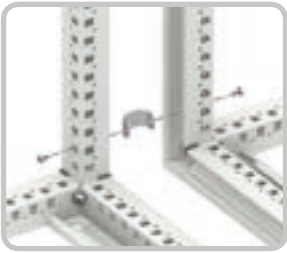

Characteristics	Standard coupling Kit	Swing 19" rack coupling Kit	Reinforced coupling
	 <p>Used for joining enclosures side-to-side or depthwise. Fixing from the inside of the enclosure.</p>	 <p>Used for joining enclosures equipped with swing 19" rack, side-to-side or depthwise. Fixing from the inside of the enclosures.</p>	 <p>It is used together with the coupling kit to reinforce the connection between 2 enclosures when they carry heavy loads. Fixing from the inside of the enclosures.</p>
Material	<ul style="list-style-type: none"> <li>■ Flat connectors and brackets: zinc-coated steel</li> <li>■ Sealing gasket: EPDM</li> </ul>	<ul style="list-style-type: none"> <li>■ Flat connectors: zinc-coated steel</li> <li>■ Sealing gasket: EPDM</li> </ul>	Zinc-coated steel
Supply	4 brackets, 2 flat connectors, sealing gasket and fixing elements and 16 caps	8 flat connectors, sealing gasket and fixing elements and 16 caps	4 reinforced connectors and fixing elements
References	<b>NSYSFBK</b>	<b>NSYSFBK19</b>	<b>NSYSFBKR</b>

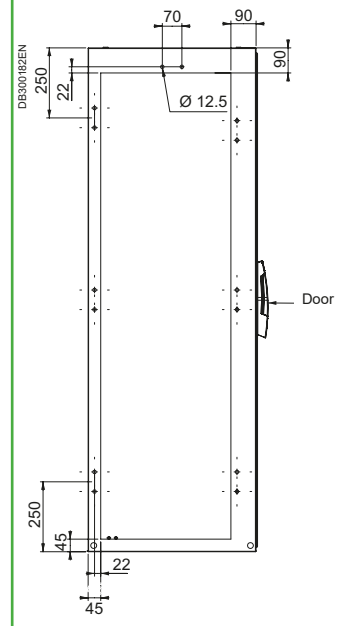
# Steel floor-standing enclosures

## Accessories

### Coupling accessories



Quick coupling	Kit for coupling the previous version with Spacial SF	External coupling	Enclosure coupling kit for Spacial SM
			
<p>Used for quickly joining 2 enclosures. Fixing from the inside of the enclosures.</p>	<p>It is used for coupling an enclosure of a previous version (OLN or Spacial 6000) side-to-side or depthwise with a Spacial SF enclosure. Fixing from the inside of the enclosures.</p>	<ul style="list-style-type: none"> <li>■ Allows two enclosures to be joined by their structure.</li> <li>■ To be used with the standard coupling kit in those cases where front and back uprights are not accesibles.</li> <li>■ The mounting plate or vertical uprights fixed to the back of the enclosure prevent the assembly and dismantling of the kit.</li> <li>■ It can be combined with the reinforced or the quick coupling kit.</li> </ul>	<ul style="list-style-type: none"> <li>■ Used for joining enclosures side-to-side.</li> <li>■ Enclosures fixed from the inside.</li> </ul>
<p>Zinc-coated steel</p>	<ul style="list-style-type: none"> <li>■ Flat connectors and spacers: zinc-coated steel</li> <li>■ Sealing gasket: EPDM</li> </ul>	<ul style="list-style-type: none"> <li>■ External connectors: zinc-coated steel</li> </ul>	<p>3 x 10 sealing gasket: EPDM</p>
<p>4 flat links and fixing elements</p>	<p>6 flat connectors, sealing gasket and fixing elements</p>	<p>4 external connectors and fixing elements</p>	<p>1 sealing gasket and fixing elements</p>
<p><b>NSYSFBKF</b></p>	<p><b>NSYSFBKSH</b></p>	<p><b>NSYSFBKE</b></p>	<p><b>NSYSMBK</b></p>



# Steel floor-standing enclosures

## Accessories

### Floor

#### Plinth in kit form

#### Front and rear kit

#### Side panels

#### Complete plinth



Plinth height 100 mm



Plinth height 200 mm

The complete plinth consists of two elements, one is the front and rear kit, determined by the length of the enclosure, and the other consists of the side panels, which determine the depth of the enclosure. The number of side panels required is decided according to the desired plinth combination.

- ⊕ Robust design.
- ⊕ The modular plinth system makes it possible to reduce the number of references in stock.

# Steel floor-standing enclosures

## Accessories

### Floor



#### Examples of solutions

PB502564-72

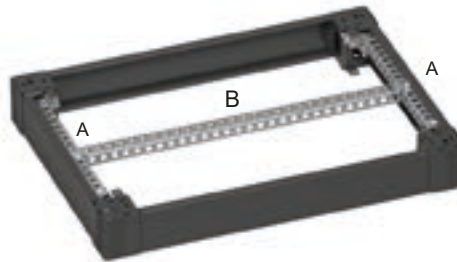
PB502565-51



#### Plinth cross rail fixed in position B

- They are fixed to the plinth cross rails, both the universal and the quick-fixing types.
- Their depth is adjustable with a pitch of 25 mm.
- See universal and quick-fixing cross rail references, page 223.

PB502566-63



*Plinth cross rail fixes in position B. It requires 2 cross rails in position A to be fixed.*

PB502567-104



# Steel floor-standing enclosures

## Accessories

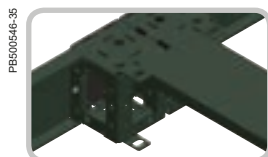
### Floor

#### Possibility of joining plinths



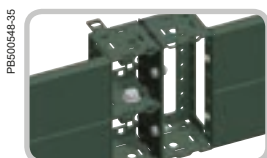
- 1 - The surfaces between corners are always in contact.**  
They are joined by an M8 screw and nut, not included in the standard supply.

- + Longitudinally free space for passing cables.
- + Greater rigidity of the resultant assembly unit.



- 2 -** By side panels, the M6 screws and caged nuts, not included in the standard supply, reference **NSYSPM6** and reference **NSYCN9M625**, which can be mounted above and/or below.

- + Improves rigidity in the depthwise direction during transport.



- 3 - Vertical plinth assembly** by means of M12 screws and nuts, not included in the standard supply.

- + The two heights of corners can be combined.

#### Possibility of fixing the enclosure to the plinth



- 1 -** Fixing from the inside of the enclosure by means of an M12 screw, screwing directly into the corner of the plinth.

- + Fixing convenience and speed.



- 2 -** Fixing from the outside of the enclosure with a M12 screw, screwing directly onto the vertical upright.

- + Maximum rigidity of the enclosure-plinth assembly.

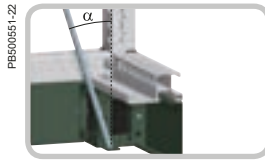
# Steel floor-standing enclosures

## Accessories

### Floor

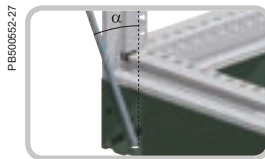
#### Possibility of fixing the plinth to the floor

**1** - Fixing from the inside of the enclosure.



The machining angle varies according to the plinth model:  
Plinth height 100 mm  $\alpha = 18^\circ$ .  
Plinth height 200 mm  $\alpha = 9^\circ$ .

**2** - Fixing from the outside of the enclosure, optimum point for the rigidity of the assembly.

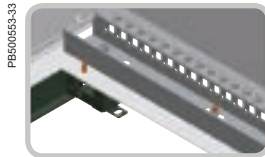


The machining angle varies according to the plinth model:  
Plinth height 100 mm  $\alpha = 22^\circ$ .  
Plinth height 200 mm  $\alpha = 11^\circ$ .

**3** - It is also possible to use floor-fixing supports, reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.

The corners of the ends can be rotated in the event of needing to remove the side panels of the plinth and/or to obtain access to the fixing outside the floor, when the set is installed against the wall.

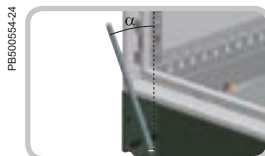
#### Fixing the enclosure to the plinth



Fixing from the inside of the enclosure by means of an M12 screw, screwing directly into the corner of the plinth.

⊕ Fixing convenience and speed.

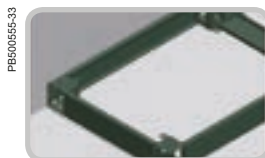
#### Fixing the enclosure to the ground



Fixing from the outside of the enclosure, optimum point for the rigidity of the assembly.

The machining angle varies according to the plinth model:  
Plinth height 100 mm  $\alpha = 22^\circ$ .  
Plinth height 200 mm  $\alpha = 11^\circ$ .

#### Enclosure against a wall



Thanks to the design of the corners, when the enclosure is installed against the wall, the following is possible:

- to remove the side panels (turning back corners),
- to access the external fixing to the floor.

It is also possible to use floor-fixing supports, reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.

#### Assembly of the plinth panels



The panels are fixed with an M6 screw to the corner, included in the standard supply of the side panels.  
The front and rear panels are delivered mounted on the corners.

# Steel floor-standing enclosures

## Accessories

SM

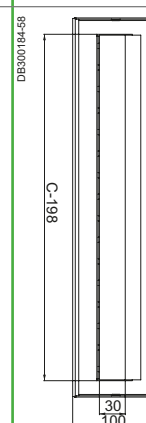
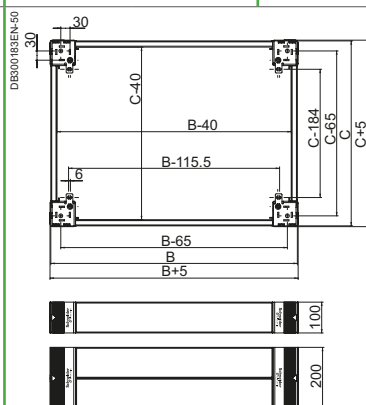
SF

### Floor



Characteristics	Front plinth	Plinth side panels	Ventilated front plinth	Ventilated side panels	Panels with brush
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.	The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.	They are fixed to the corner of the plinth by fixing screws.	They allow the entry and fixing of cables inside the enclosure, through the plinth.
Material	Folded sheet steel, corner with a thickness of 25/10° mm	Folded sheet steel	Folded sheet steel, corner with a thickness of 25/10° mm	Folded sheet steel	Folded sheet steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey
Ingress protection rating	IP30 according to IEC 60529	IP30 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262
Supply	<ul style="list-style-type: none"> <li>Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements</li> <li>Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements</li> </ul>	<ul style="list-style-type: none"> <li>Height 100 mm: 2 side panels, 4 corner covers and fixing elements</li> <li>Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements</li> </ul>	<ul style="list-style-type: none"> <li>Height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements</li> </ul>	<ul style="list-style-type: none"> <li>Height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements</li> </ul>	<ul style="list-style-type: none"> <li>Height 100 mm: 2 panels with brushes, 4 corner covers and fixing elements</li> </ul>

References						
Width (mm) (B)	100 mm		200 mm		100 mm	
300	NSYSPF3100	NSYSPF3200	-	-	-	-
400	NSYSPF4100	NSYSPF4200	-	-	-	-
600	NSYSPF6100	NSYSPF6200	-	-	NSYSPFV6100	-
800	NSYSPF8100	NSYSPF8200	-	-	NSYSPFV8100	-
1000	NSYSPF10100	NSYSPF10200	-	-	-	-
1200	NSYSPF12100	NSYSPF12200	-	-	-	-
1600	NSYSPF16100	NSYSPF16200	-	-	-	-
1800	-	-	-	-	-	-
2400	-	-	-	-	-	-
Depth (mm) (C)			100 mm	200 mm	100 mm	100 mm
300	-	-	NSYSPS3100	NSYSPS3200	-	-
400	-	-	NSYSPS4100	NSYSPS4200	-	-
500	-	-	NSYSPS5100	NSYSPS5200	-	-
600	-	-	NSYSPS6100	NSYSPS6200	NSYSPV6100	NSYSPB6100
800	-	-	NSYSPS8100	NSYSPS8200	NSYSPV8100	NSYSPB8100
1000	-	-	-	-	-	-



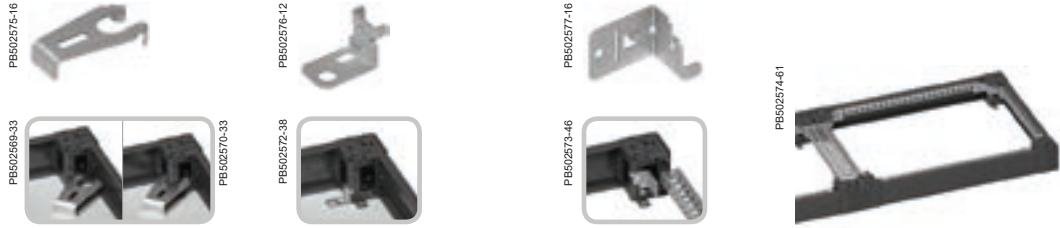
Stainless-steel plinths (standard plinths pages 128 and 129, ventilated plinths page 379) are compatible with steel floor-standing enclosure SM and SF using an earthing cable reference NSYEL226D13 (description page 278) to be ordered separately.



# Steel floor-standing enclosures

## Accessories

### Floor



Characteristics	Fixing to the floor	Fixing to the floor by fixing points of previous version (OLN/CMO or Spacial 6000 and 18500)	Plinth cross-rail support	Plinth cross rails	
	Piece for fixing the plinth to the floor in the event of not being able to use the drillholes made in the plinth.	Pieces that reproduce the floor-fixing points of the previous plinth.	Support for fixing a cross rail inside the plinth.	They are fixed across the width and/or depth between the corners of the plinth. The plinth cross-rail supports are required for its assembly.	
Material	Steel	Steel	Steel	Steel	
Finish	Zinc-coated	Zinc-coated	Zinc-coated	Zinc-coated	
Supply	4 pieces, fixing elements not supplied	4 pieces, fixing elements not supplied	12 pieces and fixing elements	2 cross rails and fixing elements	
<b>References</b>					
<b>Width (mm) (B)</b>			<b>Reference by unit Order by multiples of 12 (12, 24, 36...)</b>	<b>Cross rails</b>	
300	NSYSGF	NSYOL6GF	NSYSPCR	1 row (40)	3 rows (90)
400				NSYSUCR4030	NSYSUCR9030
600				NSYSUCR4050	NSYSUCR9050
800				NSYSUCR4070	NSYSUCR9070
1000				NSYSUCR4090	NSYSUCR9090
1200				NSYSUCR40110	NSYSUCR90110
1600				NSYSUCR40150	NSYSUCR90150
1800				-	-
2400	-	-	-	-	
<b>Depth (mm) (C)</b>				1 row (40)	3 rows (90)
500	-	-	-	NSYSUCR4040	NSYSUCR9040

### Floor



Fixing options			
<b>Characteristics</b>	<b>Screw M6</b> Torx T30 M6 x 10 screws.	<b>Caged nuts</b> M6 caged nuts.	<b>Levelling the plinth</b> The plinth allows levelling by means of an M12 screw.
Supply	50	100	-
<b>References</b>			
	NSYS6M6	NSYCN9M625	NSYSPLK

# Steel floor-standing enclosures

## Accessories

### Cable entries



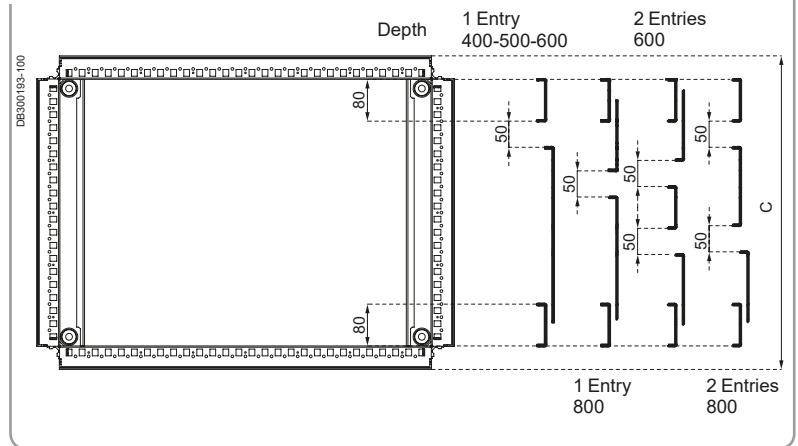
Characteristics		Plain cable-gland plate	Plain cable-gland plate	With 1 entry	With 2 entries	Cable-gland plate for connectors	
		The design of the compact cable gland plate, coupled with the use of the sealing gasket <b>NSYCEK</b> enable the maximum dust/water tightness.		Facilitates the entry of cables thanks to a longitudinal opening.	Cable entry for very deep enclosures (600 and 800 mm). Two longitudinal openings allowing a large number of cables through.	Adapter plate to install cable entry plates for connectors, see page 257. To be used together with cable-gland plates, 1 or 2 entries, adding or replacing one of the parts.	
Material		Steel painted with epoxy-polyester resin, RAL 7035	Galvanised steel			Galvanised steel	
Thicknesses		10/10° mm	15/10° mm			15/10° mm	
Supply		Plain plate and fixing elements	Plain plate and fixing elements	Plate with 1 entry; self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantees good sealing) and fixing elements	1 plate with 2 entries; polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantee good sealing) and fixing elements	Plate and fixing elements	
Width (B)	Depth (C)	References				No. of cuts	References
300	500	-	<b>NSYEC35</b>	<b>NSYEC351</b>	-	-	-
	600	-	<b>NSYEC36</b>	<b>NSYEC361</b>	-	-	-
400	400	-	<b>NSYEC44</b>	<b>NSYEC441</b>	-	-	-
	500	-	<b>NSYEC45</b>	<b>NSYEC451</b>	-	-	-
	600	-	<b>NSYEC64</b>	<b>NSYEC641</b>	-	-	-
	800	-	<b>NSYEC84</b>	<b>NSYEC841</b>	-	-	-
600	300	<b>NSYSMEC63</b>	-	-	-	2	<b>NSYDCE6</b>
	400	<b>NSYSMEC64</b>	<b>NSYEC64</b>	<b>NSYEC641</b>	-	-	-
	500	<b>NSYSMEC65</b>	<b>NSYEC65</b>	<b>NSYEC651</b>	-	-	-
	600	<b>NSYSMEC66</b>	<b>NSYEC66</b>	<b>NSYEC661</b>	<b>NSYEC662</b>	-	-
	800	-	<b>NSYEC68</b>	<b>NSYEC681</b>	<b>NSYEC682</b>	-	-
800	300	<b>NSYSMEC83</b>	-	-	-	3	<b>NSYDCE8</b>
	400	<b>NSYSMEC84</b>	<b>NSYEC84</b>	<b>NSYEC841</b>	-	-	-
	500	<b>NSYSMEC85</b>	<b>NSYEC85</b>	<b>NSYEC851</b>	-	-	-
	600	<b>NSYSMEC86</b>	<b>NSYEC86</b>	<b>NSYEC861</b>	<b>NSYEC862</b>	-	-
	800	-	<b>NSYEC88</b>	<b>NSYEC881</b>	<b>NSYEC882</b>	-	-
1000	300	<b>NSYSMEC103</b>	-	-	-	4	<b>NSYDCE10</b>
	400	<b>NSYSMEC104</b>	<b>NSYEC104</b>	<b>NSYEC1041</b>	-	-	-
	500	<b>NSYSMEC105</b>	<b>NSYEC105</b>	<b>NSYEC1051</b>	-	-	-
	600	-	<b>NSYEC106</b>	<b>NSYEC1061</b>	<b>NSYEC1062</b>	-	-
1200	800	-	<b>NSYEC108</b>	<b>NSYEC1081</b>	<b>NSYEC1082</b>	-	-
	300	2 x <b>NSYSMEC63</b>	-	-	-	4	<b>NSYDCE12</b>
	400	2 x <b>NSYSMEC64</b>	<b>NSYEC124</b>	<b>NSYEC1241</b>	-	-	-
	500	2 x <b>NSYSMEC65</b>	<b>NSYEC125</b>	<b>NSYEC1251</b>	-	-	-
	600	2 x <b>NSYSMEC66</b>	<b>NSYEC126</b>	<b>NSYEC1261</b>	<b>NSYEC1262</b>	-	-
1600	800	-	<b>NSYEC128</b>	<b>NSYEC1281</b>	<b>NSYEC1282</b>	-	-
	400	2 x <b>NSYSMEC84</b>	<b>NSYEC164</b>	<b>NSYEC1641</b>	-	-	-
	500	2 x <b>NSYSMEC85</b>	<b>NSYEC165</b>	<b>NSYEC1651</b>	-	-	-
	600	2 x <b>NSYSMEC86</b>	<b>NSYEC166</b>	<b>NSYEC1661</b>	<b>NSYEC1662</b>	-	-
				<p>Enclosures of 300 and 400 mm width.</p>			
				<p>Enclosures of 600, 800, 1000 and 1200 mm width.</p>			

# Steel floor-standing enclosures

## Accessories



### Possibilities of cable gland-plate adjustment



### Gaskets



Dimensions (mm)	Brush-type cable-entry gasket	Foam cable-entry gasket	Sealing gasket
	For plates with 1 or 2 cable entries. The cables can have different diameters.	Brush-type gasket for installation on the cable-gland plates. The cables can have different diameters.	Spare gasket, made from self-extinguishing expanded polyurethane with a cross-section of 15 x 25 mm, for fixing on cable-gland plates.
			Sealing gasket, made from ethylene-propylene with a cross-section of 3 x 10 mm, for mounting on the perimeter of the cable-gland plates. Adhesive to guarantee good sealing.
Width (mm)	References		Reference
400	NSYBCE4	-	NSYCEJ
600	NSYBCE6	NSYSMBCE6	NSYCEK
800	NSYBCE8	NSYSMBCE8	
1000	NSYBCE10	NSYSMBCE10	
1200	NSYBCE12	2 x NSYSMBCE6	
1600	NSYBCE16	2 x NSYSMBCE8	

# Steel floor-standing enclosures

## Accessories

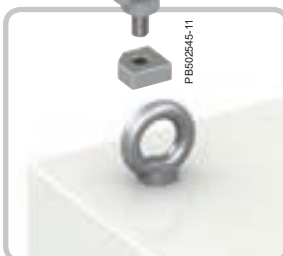
### Lifting systems

SF



PB503273

SM



PB502529

PB502545-11

SF

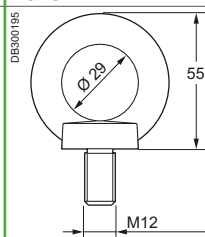


PB503274-48

Characteristics	Eyebolts	Lifting brackets
Maximum amount of assembled enclosures to be lifted	1	2
	Set of M12 lifting eyebolts, which screw directly into the structure of the enclosure, in the axis of the uprights.	Set of lifting and transport brackets, fixed to the structure between two coupled enclosures, in the axis of the uprights.
Material	Galvanised cast steel	Zinc-coated steel
Maximum load	340 kg	500 kg
Supply	4 eyebolts	4 brackets and fixing elements (M12 screws)

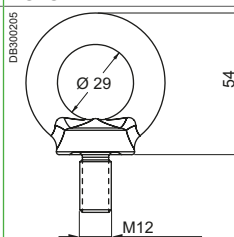
#### References

##### NSYSFEB



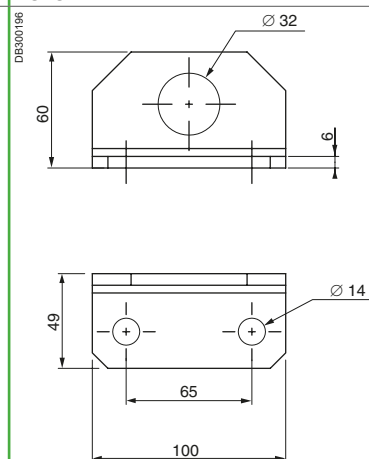
DE300195

##### NSYSMEB



DE300205

##### NSYSFELB



DE300198

# Steel floor-standing enclosures

## Accessories

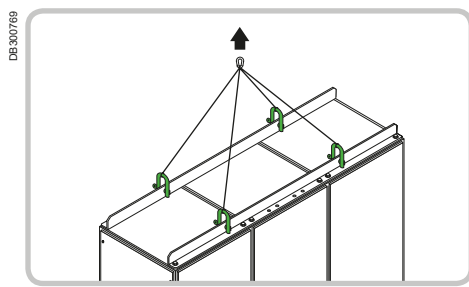
### Lifting systems

SF



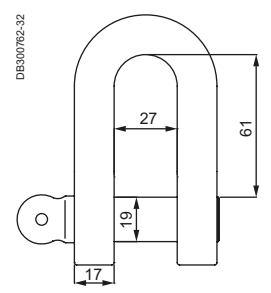
Lifting bar			
2	3	4	5
Set of bars for lifting and transporting enclosure suites. They are fixed to the structure of the enclosure, in the axis of the uprights.			
Steel			
2000 kg (length 1600 mm)	3000 kg (length 1800 mm)	3000 kg (length 2400 mm)	4000 kg (length 3200 mm)
2 lifting bars and fixing elements (M12 screws)			
NSYSFTB16	NSYSFTB18	NSYSFTB24	NSYSFTB32

### Recommended lifting points



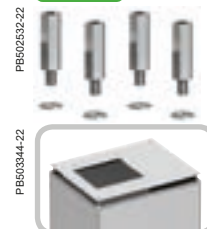
**Shackles**  
Lifting bar shackles.  
 ■ **Maximum load:** 1600 kg.  
 ■ **Supply:** 4 shackles.

**Reference**  
NSYSFTBS



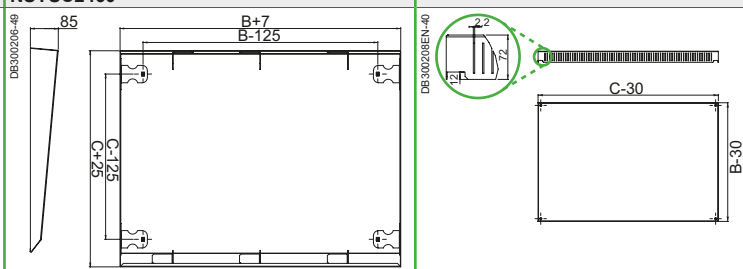
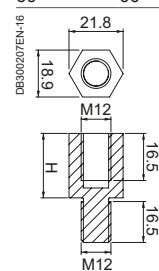
# Steel floor-standing enclosures Accessories

## Roof



Characteristics	Canopy	Ventilated roof
	Provides excellent protection against splashes from rainwater. Canopy mandatory for outdoor use, not compatible with the simultaneous use of lifting elements. Spacial SF: it is possible to use a single canopy with combinations of modular enclosures (example of a 1600 mm canopy with two coupled 800-mm enclosures).	Roof providing natural ventilation for the enclosure, with IP30 protection. Height: an extra 63 mm in relation to the structure.
Material	Galvanised steel	Steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey	RAL 7035 grey
Fixing	<ul style="list-style-type: none"> <li>Spacial SF: fixing by drill holes to be made in the roof of the enclosure</li> <li>Spacial SM: fixing by drill holes already made in the roof</li> </ul>	They are screwed onto the structure, at the roof fixing point
Supply	One canopy, drilling template and fixing elements	One ventilated roof and four elevators
Width (B) (mm)	Depth (C) (mm)	References
600	300	NSYSC630
	400	NSYSC640
	500	NSYSC650
	600	NSYSC660
	800	-
800	300	NSYSC830
	400	NSYSC840
	500	NSYSC850
	600	NSYSC860
	800	-
1000	300	NSYSC1030
	400	NSYSC1040
	500	NSYSC1050
	600	NSYSC1060
1200	300	NSYSC1230
	400	NSYSC1240
	500	NSYSC1250
	600	NSYSC1260
1600	400	NSYSC1640
	500	NSYSC1650
	600	NSYSC1660
1800	500	NSYSC1850
	600	NSYSC1860
2000	500	NSYSC2050
	600	NSYSC2060
2400	500	NSYSC2450
	600	NSYSC2460

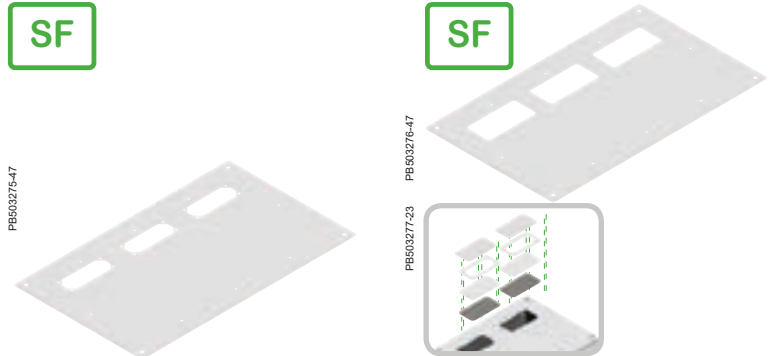
Ventilation elevators for roof	
	Allows the roof to be raised, providing natural ventilation. They are screwed onto the structure, at the roof fixing point.
Material	Zinc-coated steel
Supply	4 elevators
Height (H) (mm)	References
23	NSYRE26
60	NSYRE60



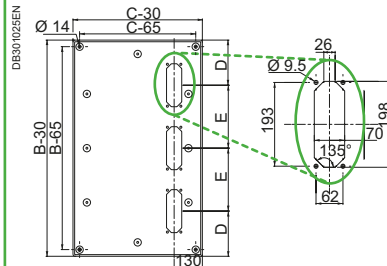
# Steel floor-standing enclosures

## Accessories

### Roof



Characteristics				FL21 cable-entry roof	Cable-entry roof
Material				Steel	Steel
Finish				Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour				RAL 7035 grey	RAL 7035 grey
Supply				One cut-out roof for the FL21 cable-entry plates	One cut-out roof for the cable-entry plates
Dimensions (mm)		Centre-to-centre distance (mm)		No. of entries	References
Width (B)	Depth (C)	D	E		
600	500	248	-	1	NSYSFLR65
	600	-	-		NSYSRCE650
800	500	208	-	2	NSYSFLR66
	600	-	-		NSYSRCE660
	500	220	-		NSYSFLR85
1000	600	-	-	3	NSYSFLR86
	500	208	290		NSYSRCE850
	600	220	285		NSYSRCE860
	600	-	-		NSYSFLR105
					NSYSFLR106
					NSYSRCE1050
					NSYSRCE1060



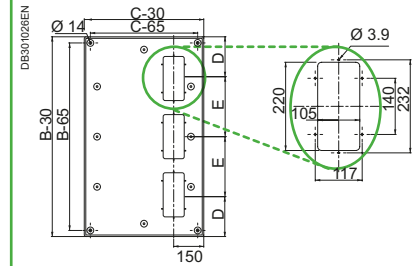
#### FL21 cable-entry membranes (1)

Membrane plate for watertight cable entries made from insulating material (fireresistance level UL 94 V-0).  
 Direct installation in the FL21 cable-entry plate adapter.  
 4 models: plain plate and membrane plates from 7 to 35 cable entries.

- Material: grey plastic.
- Ingress protection rating: IP66 according to IEC 60529.
- Supply: membrane plate and fixing elements.

No. of cable entries	References
Plain	NSYAACPFLBP (2)
7	NSYAACPFLT7
25	NSYAACPFLT25
35	NSYAACPFLT35

(1) For more information, see page 257.  
 (2) Metallic plate.



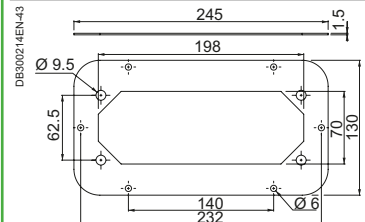
#### Standard cable-entry plate (1)

Thickness	Reference
15/10° mm	NSYTLCL

FlexiCable	
Reference	
NSYTLCE	

Aluminium cable-entry plate	
Thickness	Reference
30/10° mm	NSYTLCU

Adapter for FL21 cable-entry plate	
Thickness	Reference
15/10° mm	NSYTLCLFL



# Steel floor-standing enclosures

## Accessories

### Wall fixing

SF



SM



Characteristics	Wall fixing support	
	Supports for fixing the enclosure on the wall and preventing it from turning over. They cannot be used for hanging the enclosure. They are installed using the roof mounting screws.	Supports for fixing the enclosure on the wall and preventing it from turning over. They are installed using the drill holes in the back of the enclosure. Enclosure fixed from the outside.
Material	Zinc-coated steel	Zinc-coated steel
Supply	2 supports	2 supports
References		
	<b>NSYSFWFIX</b> 	<b>NSYSMWFIX</b> 



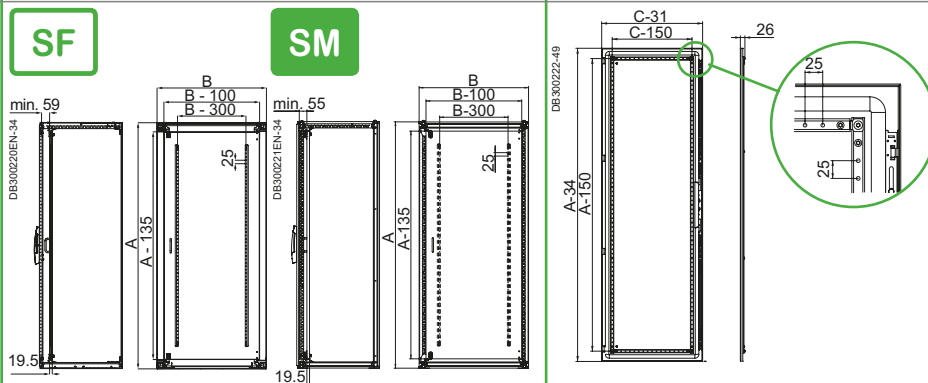
# Steel floor-standing enclosures

## Accessories

### Doors






Characteristics		Inner door	Door
		<ul style="list-style-type: none"> <li>■ Door for additional protection. Prevents the switchgear from being manipulated by unauthorised personnel.</li> <li>■ Allows the installation of switchgear mounted directly on the door.</li> <li>■ Mounting on the top and bottom frame of the enclosure.</li> <li>■ Depth adjustable with a pitch of 25 mm, from the first fixing point.</li> <li>■ Opening to right or left, with two locks, 3-mm double-bar, with central handle.</li> <li>■ Reinforcement frames on the rear, cut-outs with a 25-mm pitch, for equipping the door.</li> <li>■ Maximum acceptable load: 15 kg.</li> <li>■ Inner doors can be mounted in our stainless steel floor-standing enclosures (SFX and SMX).</li> </ul>	<ul style="list-style-type: none"> <li>■ Door for all sides of the enclosure, replaces the side panel.</li> <li>■ Installation directly on the structure of the enclosure, opening 120°.</li> <li>■ Lock with handle and 5-mm double-bar insert.</li> <li>■ 4 locking points.</li> <li>■ Reinforcement frame, cut-out with a pitch of 25 mm.</li> <li>■ Opening to right or left.</li> </ul>
Material		Steel	Steel
Finish		Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour		RAL 7035 grey	RAL 7035 grey
Supply		One inner door and fixing elements	One side door, four hinges, four catches and handle lock
H (mm)	W/D (mm)	References	
1200	600	-	NSYSFD126
	800	-	NSYSFD128
1400	600	-	NSYSFD146
	800	-	NSYSFD148
1600	600	NSYID166	NSYSFD166
	800	NSYID168	NSYSFD168
1800	400	-	NSYSFD184
	500	-	NSYSFD185
	600	NSYID186	NSYSFD186
	800	NSYID188	NSYSFD188
2000	1000	NSYID1810	-
	300	-	NSYSFD203
	400	-	NSYSFD204
	500	-	NSYSFD205
	600	NSYID206	NSYSFD206
	700	-	NSYSFD207
2200	800	NSYID208	NSYSFD208
	1000	NSYID2010	-
	400	-	NSYSFD224
	500	-	NSYSFD225
	600	NSYID226	NSYSFD226
	800	NSYID228	NSYSFD228






# Steel floor-standing enclosures

## Accessories

### Doors

Partials doors						
	Front Fix panel for modularity		Frontal partial doors		Frontal Transparent partial doors	
						
	<b>Width: 600 mm</b>	<b>Width: 800 mm</b>	<b>Width: 600 mm</b>	<b>Width: 800 mm</b>	<b>Width: 600 mm</b>	<b>Width: 800 mm</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Top &amp; bottom fix panel to obtain modularity required to install partial doors. It is needed to purchase NSYMIC6 &amp; NSYMIC8.</li> <li>■ H100 mm fixed panels are delivered as standard for the compartmentalised enclosure, Spacial SFM.</li> <li>■ Possibility to order it separately for Spacial SF framework in kit supply.</li> <li>■ Available in 2 heights (mm).</li> </ul>		<ul style="list-style-type: none"> <li>■ Plain partial door with lock 5 mm double-bar insert.</li> <li>■ They are fixed to the uprights of the framework by means of hinges.</li> <li>■ Drilling template for uprights ref. <b>NSYMDT</b> (Only 1 drilling template by order is needed).</li> <li>■ Opening to right or left.</li> <li>■ 1, 2 or 4 locking points according different heights.</li> <li>■ Possibility to replace locking insert (see page 110).</li> <li>■ Available in following heights (mm).</li> </ul>		<ul style="list-style-type: none"> <li>■ Glazed (Securit glass) partial door with lock 5 mm double-bar insert.</li> <li>■ They are fixed to the uprights of the framework by means of hinges.</li> <li>■ Opening to right or left.</li> <li>■ 1 or 2 locking points according different heights.</li> <li>■ Available in following heights (mm).</li> </ul>	
Ingress protection rating	IP54 according to IEC 60529		IP54 according to IEC 60529		IP54 according to IEC 60529	
Height (mm)	<b>References</b>					
100	<b>NSYMF2M6</b>	<b>NSYMF2M8</b>	-	-	-	-
150	-	-	<b>NSYMPD3M6</b>	<b>NSYMPD3M8</b>	-	-
200	-	-	<b>NSYMPD4M6</b>	<b>NSYMPD4M8</b>	<b>NSYMPD26T</b>	<b>NSYMPD28T</b>
250	<b>NSYMF5M6</b>	<b>NSYMF5M8</b>	<b>NSYMPD5M6</b>	<b>NSYMPD5M8</b>	-	-
300	-	-	<b>NSYMPD6M6</b>	<b>NSYMPD6M8</b>	-	-
400	-	-	<b>NSYMPD8M6</b>	<b>NSYMPD8M8</b>	<b>NSYMPD46T</b>	<b>NSYMPD48T</b>
450	-	-	<b>NSYMPD9M6</b>	<b>NSYMPD9M8</b>	-	-
600	-	-	<b>NSYMPD12M6</b>	<b>NSYMPD12M8</b>	<b>NSYMPD66T</b>	<b>NSYMPD68T</b>
800	-	-	<b>NSYMPD16M6</b>	<b>NSYMPD16M8</b>	<b>NSYMPD86T</b>	<b>NSYMPD88T</b>
900	-	-	<b>NSYMPD18M6</b>	<b>NSYMPD18M8</b>	-	-
1000	-	-	<b>NSYMPD20M6</b>	<b>NSYMPD20M8</b>	<b>NSYMPD106T</b>	<b>NSYMPD108T</b>
1200	-	-	<b>NSYMPD24M6</b>	<b>NSYMPD24M8</b>	-	-

Other external claddings for multi-purpose applications			
	Intermediate Crossbar	Folding panel	Control desk
			
Characteristics	<ul style="list-style-type: none"> <li>■ Mounted between partial doors or between doors and control desk, guaranteeing IP54 according to IEC 60529.</li> <li>■ Crossbar with direct fixing to the structure.</li> <li>■ Available in 2 widths (mm).</li> </ul>	<ul style="list-style-type: none"> <li>■ H300 mm horizontal panel, hinged at the top.</li> <li>■ Guarantees protection of the sets of bars.</li> <li>■ Opening angle: 110°.</li> <li>■ It is installed together with partial doors to create the modularity of the enclosure.</li> <li>■ 2 locking points, 5 mm double-bar insert.</li> <li>■ Available in 2 widths (mm).</li> </ul>	<ul style="list-style-type: none"> <li>■ Support for human-machine dialogue.</li> <li>■ H400 mm Control desk is installed together with partial doors to create the modularity of the enclosure.</li> <li>■ 2 locking points, 5 mm double-bar insert.</li> <li>■ Available in 2 widths (mm).</li> </ul>
Supply	2 crossbars with fixing elements	-	-
Width (mm)	<b>References</b>		
600	<b>NSYMIC6</b>	<b>NSYCDP36</b>	<b>NSYMCOD264</b>
800	<b>NSYMIC8</b>	<b>NSYCDP38</b>	<b>NSYMCOD284</b>

To make separation (form 2b to form 4b), please refer to Spacial SFM product.

# Steel floor-standing enclosures

## Accessories



### Door accessories



Characteristics				Metal document pocket	Plastic document pocket	Folding support tray
				Direct mounting on the reinforcement frame of the door. Adjustable depth with a pitch of 25 mm.	Attachment by adhesive tape.	Adjustable horizontal support for laptop computers, documents or any other element. Installation on the reinforcement frame of the door. Can also be installed on the door cross rails, see page 273. 4 positions: 45°, 60°, 75° and 90°.
Material				Steel	Polystyrene (PS)	Steel
Finish				Structured finish, epoxy-polyester powder	-	Structured finish, epoxy-polyester powder
Colour				RAL 7035 grey	RAL 7035 grey (NSYDPA4: RAL9001)	RAL 7035 grey
Maximum load				-	-	30 kg
Supply				1 metal document pocket and fixing elements	1 plastic document pocket	1 folding support tray and fixing elements
Dimensions (mm)				References		
Doc. format	A	B	C			
A5	174	188	22	-	NSYDPA5	-
A4	230	247	23	-	NSYDPA4	-
A4	234	278	40	-	NSYDPA44(1)	-
A3	285	476	35	-	NSYDPA3	-
Width (D)						
500				-	-	NSYSDT5
600				NSYSDP6M	-	NSYSDT6
800				NSYSDP8M	-	NSYSDT8

\* Not compatible with 19" chassis or modular distribution.

# Steel floor-standing enclosures

## Accessories

SF

SM

### Door accessories



Characteristics		180° hinge	Door-centring caster	Trim plate	Customisable label holder
		Hinge with opening of 180°. Intended to replace the 120° hinges installed as standard. They are compatible with the transparent door and can be installed even with enclosure suites.	Allows the door to be raised when closing. Direct mounting on the reinforcement frame.	Trim plate for Spacial SF and SM plain and transparent doors. The Schneider Electric logo can be placed on the left or on the right.	Label holder to be placed on trim plate to customise the enclosure. Delivered with a printable blank label.
Material		Aluminium and zamak	-	Plastic	Polycarbonate (PC)
Finish		Painted RAL 9005 black	-	-	-
Maximum load		60 kg on the door	90 kg	-	-
Supply		4 hinges, template for making the drill holes and fixing elements	One centring roller and fixing elements	1 trim plate for single doors, 2 trim plates for double doors	5 label holders
<b>References</b>					
		<b>NSYSH180 / NSYSH180NC</b>	<b>NSYSDRC</b>	-	<b>NSYCBLSF</b>
<b>Width (mm)</b>	<b>No. of doors</b>	<b>References</b>			
300	1	-	-	<b>NSYTRIM3SF</b>	-
400	1	-	-	<b>NSYTRIM4SF</b>	-
500	1	-	-	<b>NSYTRIM5SF</b>	-
600	1	-	-	<b>NSYTRIM6SF</b>	-
700	1	-	-	<b>NSYTRIM7SFP</b>	-
800	1	-	-	<b>NSYTRIM8SF</b>	-
	2	-	-	<b>NSYTRIM8SF2D</b>	-
1000	1	-	-	<b>NSYTRIM10SF</b>	-
	2	-	-	<b>NSYTRIM10SF2D</b>	-
1200	2	-	-	<b>NSYTRIM12SF2D</b>	-
1600	2	-	-	<b>NSYTRIM16SF2D</b>	-



Door switch		
	For Spacial SF & SFX	For Spacial SM
See page	272	272
Supply	1	1
<b>References</b>		
	<b>NSYDCM20</b>	<b>NSYMDCM20</b>

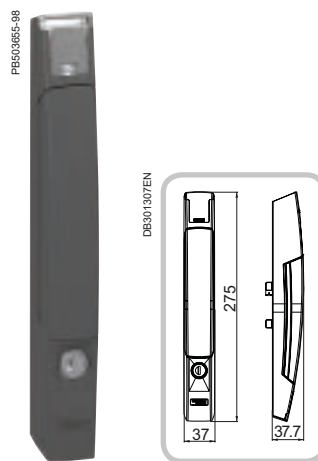
# Steel floor-standing enclosures

## Accessories

### Locking system



Characteristics	Padlock locking	CNOMO kit
	Padlock locking system, for installation in all the handles of the Spacial SF and Spacial SM enclosures. Bolt with 7.5-mm drill hole.	Locking system to be installed on the central locking bar of the door. It works as a locking bar immobiliser, preventing the handle from closing while the door is still open. It is compatible with all handle lock versions, except the flat lock and the small flat lock.
Supply	One cut-out handle, bolt for padlock and bolt fixing screw	One mechanism and fixing elements
References	<b>NSYBLKH123</b>	<b>NSYCNOH123</b>



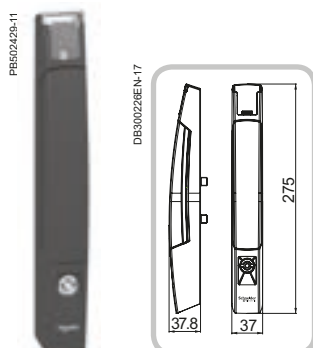
**New**

Characteristics	Push button handle with 3524E key
	<ul style="list-style-type: none"> <li>■ Push button handle with 3524E key for Spacial SF and Spacial SM enclosures.</li> <li>■ Locking and unlocking by key and opening by pushing the insert.</li> </ul>
Material	Handle: polyamide 6 with 30% fibreglass
Color	RAL 9005
Fire resistant	650°C
Supply	Push button handle, two 3524E keys and fixing elements (insert included)
Reference	<b>NSYSFHPB</b>

# Steel floor-standing enclosures

## Accessories

### Locking system



#### Characteristics

#### Handle for shape inserts and cylindrical barrels




Easy to change the opening direction of the door, right/left.  
Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.

Material	Handle: polyamide 6 with 30 % fibreglass, RAL 9005 colour
Mechanical protection rating	IK10 according to IEC 62262
Fire resistance	650°C
Supply	Standard handle and fixing elements (insert not included)

#### References

**NSYSFHS1**

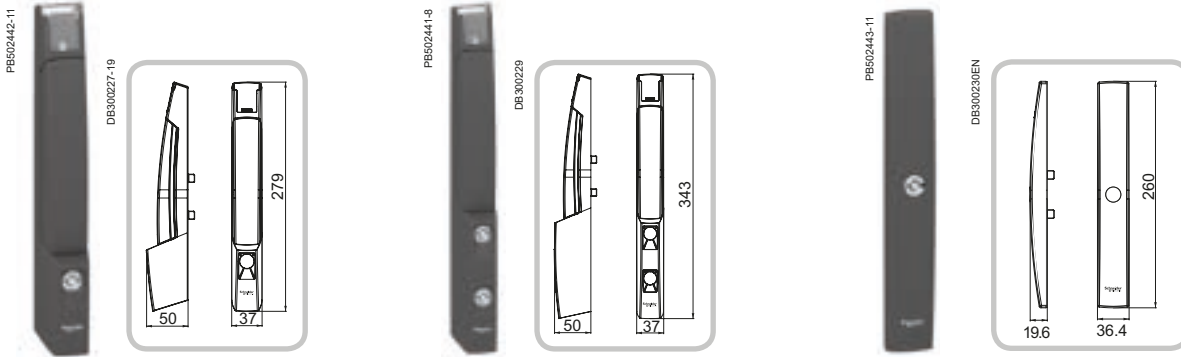
#### Accessories

	Shape inserts	References	Cylindrical barrels	References
PB500614-19  <b>Shape inserts</b>	6-mm square insert	<b>NSYINS61</b>	405E key lock	<b>NSYIN405E1</b>
	Female 6-mm square insert	<b>NSYINS6G1</b>	421E key lock	<b>NSYIN421E1</b>
	7-mm square insert	<b>NSYINS71</b>	455 key lock	<b>NSYIN4551</b>
	8-mm square insert	<b>NSYINS81</b>	1242E key lock	<b>NSYIN1242E1</b>
	Female 8-mm square insert	<b>NSYINS8G1</b>	1332E key lock	<b>NSYIN1332E1</b>
	8-mm square insert with slot	<b>NSYINS8H1</b>	2124E key lock	<b>NSYIN2124E1</b>
	6.5-mm triangular insert	<b>NSYINT61</b>	2131A key lock	<b>NSYIN2131A1</b>
	7-mm triangular insert	<b>NSYINT71</b>	2132A key lock	<b>NSYIN2132A1</b>
	8-mm triangular insert	<b>NSYINT81</b>	2331A key lock	<b>NSYIN2331A1</b>
	9-mm triangular insert	<b>NSYINT91</b>	2433A key lock	<b>NSYIN2433A1</b>
PB500615-12  <b>Push button</b>	10-mm triangular insert	<b>NSYINT101</b>	2452E key lock	<b>NSYIN2452E1</b>
	10-mm keyless hexagonal insert	<b>NSYINH31</b>	3113A key lock	<b>NSYIN3113A1</b>
	3-mm double-bar insert	<b>NSYINDB31</b>	3122E key lock	<b>NSYIN3122E1</b>
	5-mm double-bar insert	<b>NSYINDB51</b>	3123A key lock	<b>NSYIN3123A1</b>
	Daimler Benz insert	<b>NSYINBENZ1</b>	3131A1 key lock	<b>NSYIN3131A1</b>
	Fiat insert	<b>NSYINFIAT1</b>	3133A key lock	<b>NSYIN3133A1</b>
	Keyless USA slot insert	<b>NSYINUSA1</b>	3422E key lock	<b>NSYIN3422E1</b>
	Keyless 2 x 4 slot insert	<b>NSYIN241</b>	3432E key lock	<b>NSYIN3432E1</b>
	Crown insert	<b>NSYINCW1</b>	6101 key lock	<b>NSYIN6101</b>
	<b>Push button</b>	<b>Reference</b>	EDF 1300 key lock	<b>NSYINF1301</b>
PB500616-18  <b>Cylindrical barrels</b>	Push button	<b>NSYINPULS1</b>	EDF 1400 key lock	<b>NSYINF1401</b>
			Michelin 8079 keyless lock	<b>NSYINICHEL8791</b>
			Michelin 8133 keyless lock	<b>NSYINICHEL8131</b>
			Michelin 8376 keyless lock	<b>NSYINICHEL8371</b>
			E1 keyless lock	<b>NSYINE11</b>








# Steel floor-standing enclosures

## Accessories

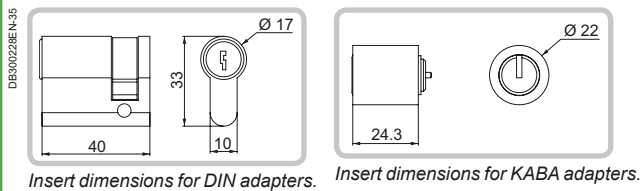
### Locking system



Handles for insert types DIN, KABA, ASSA		Flat escutcheon lock
<b>Insert handle</b>	<b>Double-insert handle</b>	
The inserts are easily and quickly mounted without any screws and allow the installation of profiled DIN, KABA and ASSA locks. To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. NSYLADP. Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.	The double insert handle can perform the "AND" and "OR" functions (are supplied with the handle). - "AND" function: one insert blocks the activation of the other insert. - "OR" function: either insert can release the handle. Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame. To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. NSYLADP.	Optional flat escutcheon lock. Replaces the handle lock. Easy to change the opening direction of the door, right/left. Possibility of changing the turning direction of the insert.
Handle: polyamide 6 with 30 % fibreglass, RAL 9005 colour		Polyamide 6 with 30 % fibreglass, RAL 9005 black
IK10 according to IEC 62262		IK10 according to IEC 62262
650°C		650°C
One handle for DIN, KABA and ASSA inserts and fixing elements (insert not included)		Flat lock, shape insert, key and fixing elements
<b>NSYSFHD2</b>	<b>NSYSFHD3</b>	-

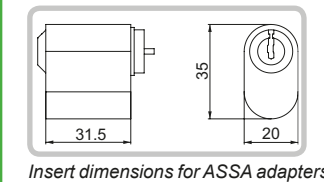
Lock system: DIN, KABA and ASSA	References
 Adapter for DIN cylinder	<b>NSYINDIN2</b>
 Adapter for KABA cylinder (1)	<b>NSYINKBA2</b>
 Adapter for ASSA cylinder	<b>NSYINASSA2</b>
 1242E key lock	<b>NSYIN1242E2</b>
 Reinforced key lock	<b>NSYINKR2</b>
 JIS key lock	<b>NSYINKJIS2</b>
 FAC key lock	<b>NSYINKFAC2</b>

(1) Adapter for receiving the KABA8, KABA20 and KABA start cylinders.













Insert dimensions for DIN adapters.

Insert dimensions for KABA adapters.



Insert dimensions for ASSA adapters.

Adapter for shape inserts and cylindrical barrels	References
 Plastic adapter for installing shape inserts and cylindrical barrels in handle lock types DIN, KABA, ASSA. See shape inserts and cylindrical barrels. See insert types DIN, KABA, ASSA. Supply: 1 unit.	<b>NSYLADP</b>

Models	References
 Flat lock + screwdriver slot, 2-mm groove	<b>NSYSFLOCK24</b>
 Flat lock + 8-mm triangular insert	<b>NSYSFLOCKT8</b>
 Flat lock + 7-mm triangular insert	<b>NSYSFLOCKT7</b>
 Flat lock + 6.5-mm triangular insert	<b>NSYSFLOCKT6</b>
 Flat lock + 8-mm female square insert	<b>NSYSFLOCKSG8</b>
 Flat lock + 8-mm square insert	<b>NSYSFLOCKS8</b>
 Flat lock + 7-mm square insert	<b>NSYSFLOCKS7</b>
 Flat lock + 6-mm square insert	<b>NSYSFLOCKS6</b>
 Flat lock + 5-mm double-bar insert	<b>NSYSFLOCKDB5</b>

# Stainless-steel wall-mounting enclosures



# Stainless-steel wall-mounting enclosures

## Contents

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PB60075-42



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# Stainless-steel wall-mounting enclosures

## Introduction

PE501229.eps



### What is stainless steel?

#### How is the stainless steel grade determined?

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

#### Thanks to an elaborate composition

■ The following table shows the percentages of the main alloy elements that make up stainless steels. The resistance of the material to aggressive agents in the environment depends mainly on these alloys.

Stainless-steel type		Chemical composition (%)			
AISI grade	N. Europe	Carbon	Chromium	Nickel	Molybdenum
304L	1.4307	< 0.03	17 - 19	8 - 10	0
316L	1.4404	< 0.03	17 - 19	10 - 13	2 - 2.25

PE501230



### Choosing a stainless steel grade

#### AISI 304L stainless steel

The most commonly used type in the food and beverage industry for its resistance to corrosion and easy cleaning.

- Prevention against corrosion, especially in the presence of organic acids.
- Resistance to the action of nitrous gas in the presence of condensation water and in most aggressive environments.

PE501231



#### AISI 316L stainless steel

Recommended in salty or chlorinated environments due to its very high resistance to corrosion thanks to the presence of molybdenum.

- Improved resistance to corrosion.
- Particularly well adapted to environments charged with acidity, bromine and saline halides or which use very corrosive additives and solvents.

# Stainless-steel wall-mounting enclosures

## Introduction

### The finish

#### The finish: 3 solutions against aggressive environmental agents

Surface condition plays an important role in the fight against bacteria.

The lower the roughness, the fewer bacteria become incrustated.

Reduced roughness means fewer bacteria, less adherence of materials and an impeccable finish.

To choose a finish is also to choose an appearance of the enclosures that matches the environment of other machines and equipment.

#### > Solution 1: Scotch-Brite® brushing

The method used consists of brushing as defined by the ASTM (American Society for Testing and Material).

- Finish very commonly used for the chemical and food and beverage industries.
- Surface roughness is improved thanks to an additional polishing process which offers more efficient characteristics against polluting elements.
- Surface roughness,  $Ra \leq 0.8 \mu\text{m}$ .



#### > Solution 2: Micro-beading (on request)

Exclusiveness, an impeccable finish with smooth silky appearance.

The method:

- Bombardment with miniscule ceramic balls of the entire surface to be treated at very high speed.
- Closes micro-cracks caused during lamination by flattening.

The result:

- Increased hardness.
- Reduced surface roughness ( $Ra \approx 0.8 \mu\text{m}$ ).
- A perfectly even surface, with a silky appearance (no scratches and no burrs).
- Reduces the adherence of materials.
- Allows disinfection.

Typical application: pharmaceutical and food and beverage industries.



#### > Solution 3: Protective painting (on request)

The highest protection against aggressions, external pollution and projections of metal particles.

- Provides the ultimate protection against corrosion.

Typical applications: marine, seaside, off-shore.



# Stainless-steel wall-mounting enclosures

## Introduction

➤ These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

PB500075-75



PB501225-31



### Finishes

- Two types of steel offered as standard: 304L and 316L, with Scotch-Brite® brushed finish.
- Painted or micro-beaded finish (on request).

PB501238



### Large range of accessories

- Stainless-steel accessories: canopy, wall-fixing lugs.
- Accessories of the standard offer: mounting plate, inner door, modular chassis and step slides.
- Large selection of locks with 100 % stainless-steel transformation.

PB501240-60



### Sealing

- Protection rating against dust and water IP66 (1 door) or IP55 (2 doors) according to IEC 60529.
- Polyurethane gasket.
- Gutter-shaped front profile.
- Three closure points for the double door.

PB501241



### Robustness and durability

- Resistance to external mechanical impacts:
  - IK10: plain door,
  - IK08: glazed door.
- Door reinforcement frame or profile.
- Stainless-steel hinges.

PB502379-16



### Convenience and time saving

- 304L or 316L stainless-steel wall-fixing lugs.
- Vertical reinforcement perforated profiles, which make it easier to equip the door.
- Reversible door opening to 120°.
- Easy installation directly on the machine thanks to the 4 rear drill holes.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting

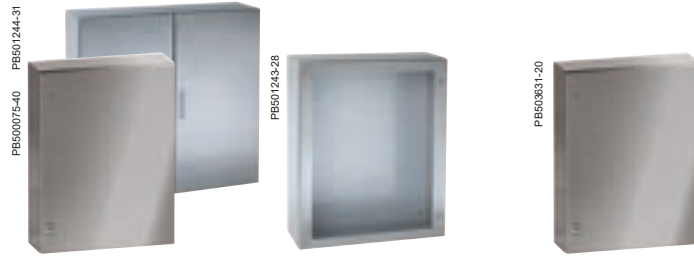


Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

# Stainless-steel wall-mounting enclosures

## Characteristics



Characteristics	304L stainless-steel		316L stainless-steel				
	Enclosure with plain door.	Enclosure with glazed door, Securit® glass, 4 mm thick.	Enclosure with plain door.				
Material	AISI 304L		AISI 316L				
Finish	Scotch-Brite® brushed						
Thickness	10/10° - 15/10° mm						
Ingress protection rating	IP66 (1 door) or IP55 (2 doors) according to IEC 60529						
Mechanical protection rating	IK10 according to IEC 62262	IK08 according to IEC 62262	IK10 according to IEC 62262				
Standards & certifications	See technical guides page 574						
Installation	Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure						
Other characteristics	<ul style="list-style-type: none"> <li>■ Single-piece body (cross-shaped structure). Gutter-shaped front profile</li> <li>■ 4 rear studs for fixing the material</li> <li>■ 2 cut-out vertical profiles on the door (from a height of 600 mm), with drill holes with a diameter of 4.25 mm and a pitch of 25 mm for installing accessories</li> <li>■ Door strengthening frame (from a height of 1000 mm), cross-section of 20 mm x 15 mm, with drill holes with a diameter of 5 mm and a pitch of 25 mm</li> <li>■ Standard lock with 3-mm double-bar lock (chrome-plated zamak)</li> <li>■ 2 locking points for heights of more than 500 mm or three points for two-door enclosures</li> <li>■ Stainless-steel hinges screwed to the body of the enclosure. They make it easier to remove and invert the door. Opening angle: 120°</li> <li>■ Maximum load on the door: 50 kg/m<sup>2</sup></li> <li>■ Polyurethane gasket</li> <li>■ M6 x 16 screws on the door and on the body, allowing equipotential connection between the earth connections (on request)</li> <li>■ 4 holes for fixing to the wall directly or with the help of mounting lugs (on request), blocked by sealing plugs</li> </ul>						
<b>External dimensions (mm)</b>							
<b>Height</b>	<b>Width</b>	<b>Depth</b>	<b>No. of locks</b>	<b>No. of doors</b>	<b>References</b>		
					<b>Plain door</b>	<b>Glazed door**</b>	<b>Plain door</b>
300	200	150	1	1	NSYS3X3215	-	NSYS3X3215H
	250	150	1	1	NSYS3X302515	-	NSYS3X302515H
	300	150	1	1	NSYS3X3315	-	NSYS3X3315H
400	300	150	1	1	NSYS3X4315	-	NSYS3X4315H
		200	1	1	NSYS3X4320	NSYS3X4320T	NSYS3X4320H
	400	200	1	1	NSYS3X4420	-	NSYS3X4420H
500	600	200	1	1	NSYS3X4620	-	NSYS3X4620H
	400	200	2	1	NSYS3X5420	NSYS3X5420T	NSYS3X5420H
600	400	200	2	1	NSYS3X6420	NSYS3X6420T	NSYS3X6420H
	600	250	2	1	NSYS3X6625	-	NSYS3X6625H
	1000	300	*	2	NSYS3X601030	-	-
	1200	300	*	2	NSYS3X601230	-	-
700	500	250	2	1	NSYS3X7525	NSYS3X7525T	NSYS3X7525H
800	600	250	2	1	NSYS3X8625	NSYS3X8625T	NSYS3X8625H
	800	300	2	1	NSYS3X8830	-	NSYS3X8830H
	1000	300	*	2	NSYS3X801030	-	-
	1200	300	*	2	NSYS3X801230	-	-
1000	800	300	2	1	NSYS3X10830	NSYS3X10830T	NSYS3X10830H
	1000	300	*	2	NSYS3X101030	-	NSYS3X101030H
1200	800	300	2	1	NSYS3X12830	-	NSYS3X12830H
	1000	300	*	2	NSYS3X121030	-	NSYS3X121030H

\* Three-point closure system.

\*\* The glazed door has no reinforcement.

# Stainless-steel wall-mounting enclosures

## Dimensions

External dimensions (mm)			Fig.
A	B	C	
300	200	150	1
	250	150	1
	300	150	1
400	300	150	1
	300	200	1
	400	200	1
500	600	200	1
	400	200	2*
	600	200	2
600	400	200	2
	600	250	2
	1000	300	4
700	1200	300	4
	500	250	2
	800	250	2
800	800	300	2
	1000	300	4
	1200	300	4
1000	800	300	3
	1000	300	4
1200	800	300	3
	1000	300	4

\* Without door reinforcement.

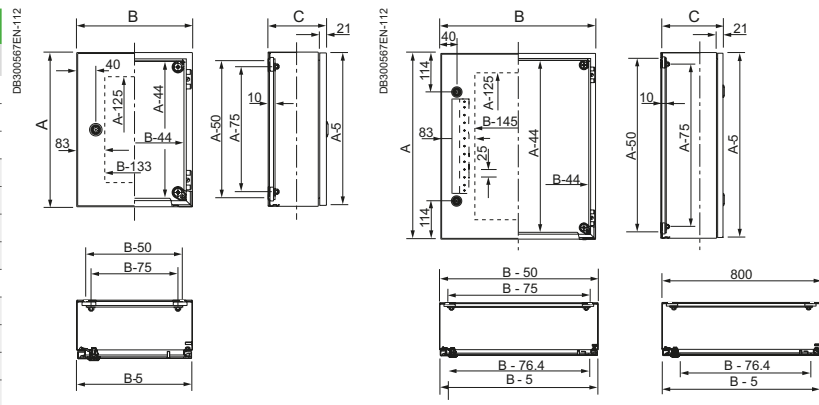


Fig. 1

Fig. 2

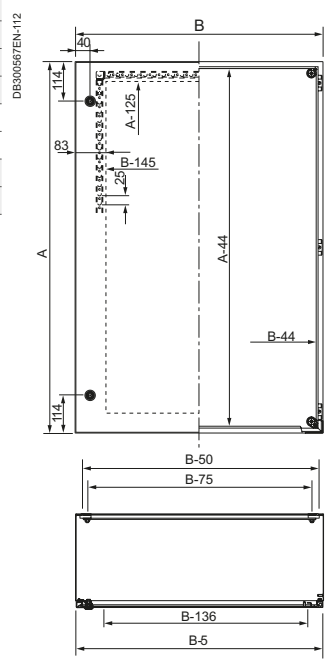


Fig. 3

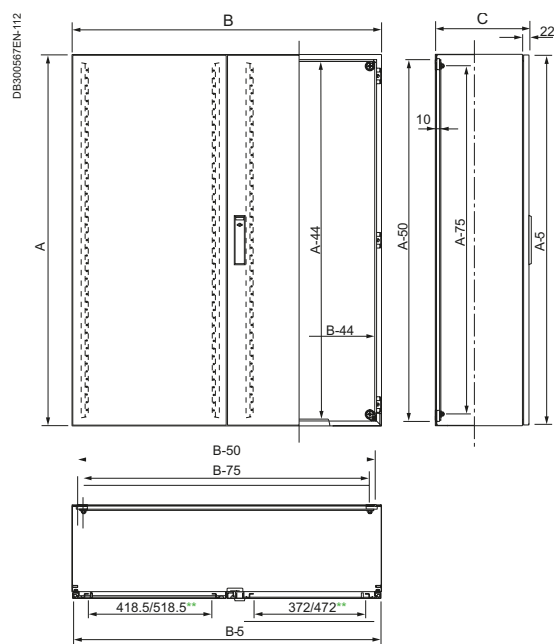
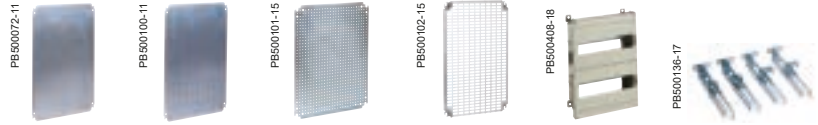


Fig. 4

\*\* For glazed door.

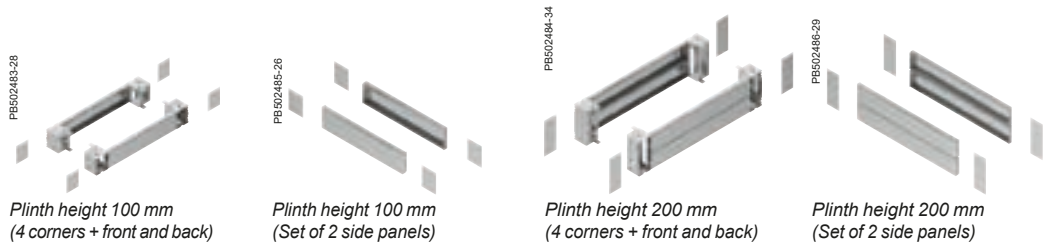
# Stainless-steel wall-mounting enclosures

## Accessories



External dimensions (mm)			No. of modules	References					
Height	Width	Depth		Mounting plate					
				Plain	Silkscreened	Microperforated	Telequick	Modular	Step slides
300	200	150	-	NSYMM32	-	NSYMF32	NSYMR32	-	-
	250	150	-	NSYMM3025	-	-	NSYMR3025	-	-
	300	150	-	NSYMM33	-	NSYMF33	NSYMR33	-	-
400	300	150	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	-
		200	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	NSYSDCR200
	400	200	-	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	NSYSDCR200
500	400	200	-	NSYMM64	NSYMS64	NSYMF64	NSYMR46	-	NSYSDCR200
		200	48	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDLM48	NSYSDCR200
	600	200	-	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDLM84P	NSYSDCR200
600	400	200	48	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDLM48P	NSYSDCR200
		250	84	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYDLM84P	NSYSDCR250
	1000	300*	-	NSYMM106	-	NSYMF106	NSYMR106	-	NSYSDCR300
700	500	250	66	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDLM66	NSYSDCR250
		250	88	-	-	-	-	NSYDLM88	-
	800	250	84	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDLM84	NSYSDCR250
800	600	250	112	-	-	-	-	NSYDLM112	-
		300	-	NSYMM88	-	NSYMF88	NSYMR88	-	NSYSDCR300
	1000	300*	-	NSYMM108	-	NSYMF108	NSYMR108	-	NSYSDCR300
	1200	300*	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
1000	800	300	234	NSYMM108	-	NSYMF108	NSYMR108	NSYDLM240	NSYSDCR300
	1000	300	-	NSYMM1010	-	NSYMF1010	NSYMR1010	-	NSYSDCR300
1200	800	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
	1000	300	-	NSYMM1210	-	NSYMF1210	NSYMR1210	-	NSYSDCR300

\* Three-point closure system.



Characteristics		Plinths								
Material		Stainless-steel, AISI 304L				Stainless-steel, AISI 316L				
Finish		Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion								
Installation		It is necessary to order separately the plinth fixing kit (ref. NSYAPFXWM) composed by fixing elements and drilling jig								
External dimensions (mm)		Plinth height 100 mm		Plinth height 200 mm		Plinth height 100 mm		Plinth height 200 mm		
Height (A)	Width (B)	Depth (C)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)
800	800	300	NSYSFPX8100	NSYSPSX3100	NSYSFPX8200	NSYSPSX3200	NSYSFPX8100H	NSYSPSX3100H	NSYSFPX8200H	NSYSPSX3200H
1000	800	300	NSYSFPX8100	NSYSPSX3100	NSYSFPX8200	NSYSPSX3200	NSYSFPX8100H	NSYSPSX3100H	NSYSFPX8200H	NSYSPSX3200H
	1000	300	NSYSFPX10100	NSYSPSX3100	NSYSFPX10200	NSYSPSX3200	NSYSFPX10100H	NSYSPSX3100H	NSYSFPX10200H	NSYSPSX3200H
1200	800	300	NSYSFPX8100	NSYSPSX3100	NSYSFPX8200	NSYSPSX3200	NSYSFPX8100H	NSYSPSX3100H	NSYSFPX8200H	NSYSPSX3200H
	1000	300	NSYSFPX10100	NSYSPSX3100	NSYSFPX10200	NSYSPSX3200	NSYSFPX10100H	NSYSPSX3100H	NSYSFPX10200H	NSYSPSX3200H



	Cable entries	Stainless steel cable gland with lamellar insert	Adhesive plastic document pocket	Door switch	Lighting	Clip-on nuts	Plain mounting plate screw		
							Self-tapping screw		
							M6 x 16	M5 x 13	M5 x 16
See page	242	244	272	272	268	240	-	-	-
Supply	10	5, 4 or 2	1	1	1	100	100	100	100
References									
	-	-	NSYDPA44	NSYINLCRN	NSYLAMLD5	AF1EA6	NSYS16M6HS	NSYS13M5HS	NSYS16M5HS

# Stainless-steel wall-mounting enclosures

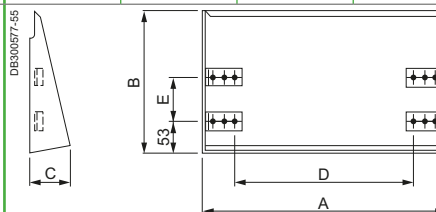
## Accessories

PB501238\_1



### Canopy

Material		304L stainless-steel sheet								
Finish		Scotch-Brite® brushed								
Thickness		15/10* mm								
Installation		Direct fixing to the body of the enclosure								
Supply		Delivered with the fixings required for installation								
No. of locks	No. of doors	For wall-mounting enclosures (mm)			Dimensions (mm)					References
		Height	Width	Depth	A	B	C	D	E	
1	1	300	200	150	205	183	51	120	-	NSYTX2015
			250	150	205	183	51	120	-	NSYTX2515
			300	150	305	183	51	220	-	NSYTX3015
		400	300	150	305	183	51	220	-	NSYTX3015
			300	200	305	233	51	220	70	NSYTX3020
			400	200	405	233	70	320	70	NSYTX4020
2	1	500	400	200	405	233	70	320	70	NSYTX4020
			400	200	405	233	70	320	70	NSYTX4020
			600	250	605	283	70	520	120	NSYTX6025
*	2	600	1000	300	1005	333	70	920	170	NSYTX10030
			1200	300	1205	333	70	1120	120	NSYTX12030
2	1	700	500	250	505	283	70	420	120	NSYTX5025
			600	250	605	283	70	520	120	NSYTX6025
			800	300	805	333	70	720	170	NSYTX8030
*	2	800	1000	300	1005	333	70	920	170	NSYTX10030
			1200	300	1205	333	70	1120	120	NSYTX12030
2	1	1000	800	300	805	333	70	720	170	NSYTX8030
*	2	1000	1000	300	1005	333	70	920	170	NSYTX10030
2	1	1200	800	300	805	333	70	720	170	NSYTX8030
*	2	1200	1000	300	1005	333	70	920	170	NSYTX10030



\* Three-point locking system.

PB501821-18



### Support bracket for enclosure with anti-tilt kit and reinforcement

The support bracket is used when the S3HF enclosure cannot be hung from a wall or a post.  
Suitable for outdoor use.  
Maxi. enclosure dimensions: 1000 x 800 x 300 mm.  
Floor attachment by standard M12 fastenings.

Material: acier  
Finish: peint  
Colour: RAL 7035 grey  
Maximum load: 120 kg

Height (mm)	References
1400	NSYOCNS1400
1800	NSYOCNS1800

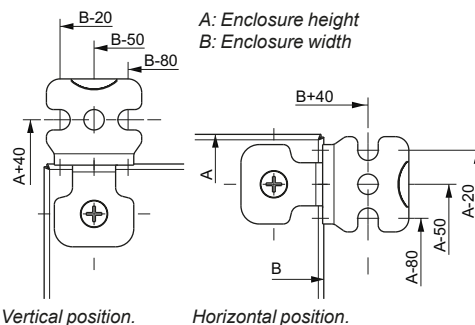
PB502979-16



### Wall-fixing lugs

Material	304L stainless-steel	316L stainless-steel
Installation	<ul style="list-style-type: none"> <li>■ Mounting of the wall-fixing lugs in horizontal or vertical position</li> <li>■ Fixing from the outside</li> <li>■ Wall-enclosure separation of 12 mm</li> </ul>	
Maximum load	250 kg	
Supply	Set of four wall-fixing lugs	
References	NSYPFCX	NSYPFC2X

DB300873





# Stainless-steel wall-mounting enclosures

## Accessories



New



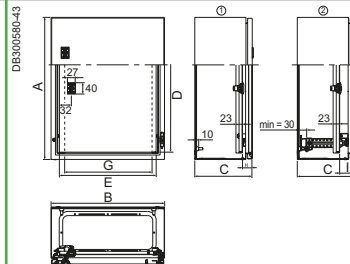
### Eyebolts\*

Material	Stainless-steel 304
Maximum load	210 kg per enclosure when slinging at 60°
Supply	Reinforcing brackets attached to the rings (these brackets also act as a drilling template)
<b>Reference</b>	
Batch of 2 M8 eyebolts	<b>NSYAELYTCRXG8</b>

\* Consult us for availability.

### Inner door

Installation	<ul style="list-style-type: none"> <li>3-mm double-bar lock.</li> <li>Not compatible with door retainer and door switch. Consult us.</li> </ul>
Maximum load	30 kg/m <sup>2</sup>
Supply	1 inner door
<b>For wall-mounting enclosures (mm)</b>	<b>Dimensions (mm)</b>
<b>Height (A)</b>	<b>Width (B)</b>
400	300
500	400
600	400
700	500
800	600
1000	800
1200	800
	<b>D</b>
	<b>E</b>
	<b>G</b>
	<b>H</b>
	<b>I (min.)</b>
	<b>References</b>
	349
	241
	208
	32
	51
	<b>NSYPIN43</b>
	449
	341
	308
	32
	51
	<b>NSYPIN54</b>
	549
	341
	308
	32
	51
	<b>NSYPIN64</b>
	649
	441
	408
	32
	51
	<b>NSYPIN75</b>
	749
	541
	508
	32
	51
	<b>NSYPIN86*</b>
	949
	741
	708
	32
	51
	<b>NSYPIN108*</b>
	1149
	741
	708
	32
	52
	<b>NSYPIN128*</b>



- NSYPIN inner door fixed directly to the enclosure.
- NSYPIN inner door fixed to the adjustable NSYSDCR support. In this case, both the inner door and the mounting plate may be depth adjustable.

\* Equipped with welded vertical profiles in order to facilitate cable management.



### 3 points lock options

<b>Type</b>	Handle lock	Screw driver insert
<b>Material</b>	100% stainless-steel	Zamak
<b>Protection rating</b>	IP66 according to IEC 60529	
<b>References</b>	NSYTSML	NSYTSMLS3D

### 1 point lock options

Type	Double-bar lock			Insert			Round lock			Handle lock			
	Escutcheon with insert	Triangular	Square	Triangular	Square	Round	Round	Round	Padlock	1242E	405	610	
	3 mm	8 mm	7 mm	6 mm	3 mm (spare)	3 mm	3 mm						
<b>Material</b>	Chrome-plated zamak	304L stainless-steel			Chrome-plated zamak	304L stainless-steel	316 stainless-steel	316 stainless-steel	Chrome-plated zamak	Polyamide			

Protection rating IP66 according to IEC 60529

<b>References</b>	NSYSTDNCSX	NSYTT8CSX	NSYTC7CSX	NSYTC6CSX	NSYSTDCSX	NSYSTDCXH	NSYSTDCX2H*	NSYCBXHCRN*	NSYCL1242ECSX	NSYCL405CSX	NSYCL610CSX
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\* Consult us for availability.

# Stainless-steel floor-standing enclosures

# Stainless-steel floor-standing enclosures

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PBS00138-26



PBS02731-22



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### Spacial SMX - SFX Stainless-steel floor-standing enclosures **124**

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# Stainless-steel floor-standing enclosures

## Introduction

➤ These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

### SMX

PB500138-83



### SFX

PB502730-80



PB501232-36



### Material and finishes

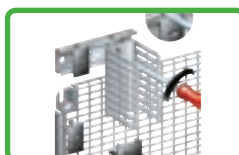
#### Stainless-steel grade:

- AISI 304L as standard in Spacial SMX and SFX.
- AISI 316L as standard in Spacial SMX and on request in Spacial SFX.

#### Finishes:

- Scotch-Brite® brushed (standard).
- Micro-beaded (on request).
- Painted (on request).

PB500058-20



### Convenience and time saving

- Complete range of accessories for installation, cable management, etc.
- 316L stainless-steel plinth: easy cable entry.
- 304L or 316L stainless-steel plinth: easy cable entry (Spacial SFX and SMX).
- Reversible door opening to 120°.
- Padlock lock with key or form insert.
- Adjustment rails perforated with a pitch of 25 mm.
- Perforated reinforcement frame allowing accessories to be mounted on the door.

PB500044-90



### Sealing

- Protection rating against dust and water IP66 or IP55 depending model according to IEC 60529.
- 3-point closures.
- Canopy (optional):
  - protects the sealing plane of the door,
  - guarantees correct water drainage,
  - no stagnation on the top.
- Single-piece cable-gland plate with polyurethane gasket.

PB501255-20



### Compatible with the other ranges

- The mounting plates and other accessories of the Spacial SM and SF standards metal offers.

PB501228-85



### Hygiene

- The high quality of the standard finish enables very easy maintenance while avoiding contamination.
- The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures.

PB501241-40



### Robustness and durability

- Resistance to external mechanical impacts: IK10 according to IEC 62262.
- 3 hinges made entirely from stainless-steel.
- Door reinforcement frame.

PB501232-36



### Resistance to corrosion

- High resistance to corrosion. 304L and 316L stainless-steels provide the best solutions for applications in extremely demanding environments.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting

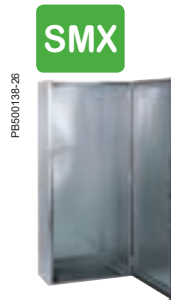


Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

# Stainless-steel floor-standing enclosures

## Characteristics



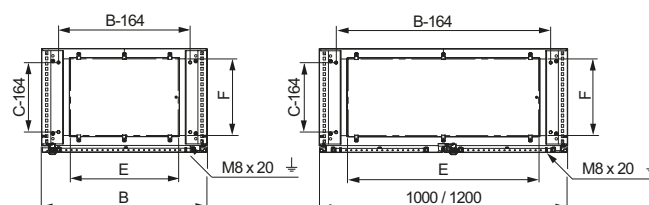
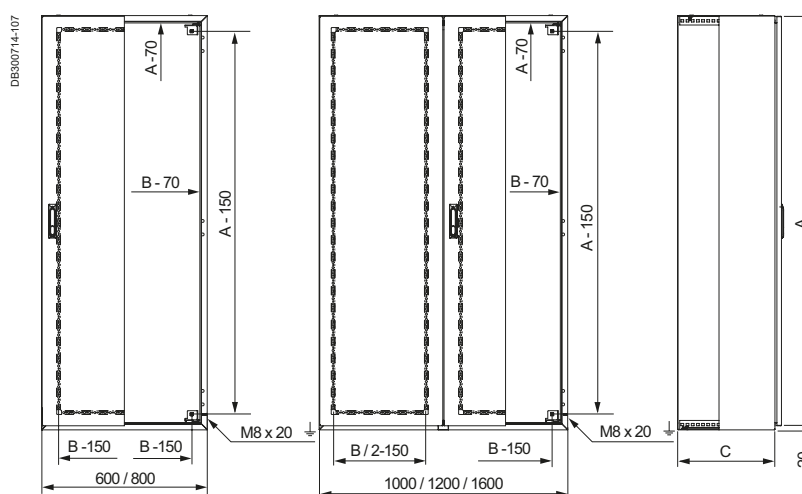
Characteristics				Spacial SMX		Spacial SFX	
				<ul style="list-style-type: none"> <li>Stainless-steel sheet floor-standing enclosure, folded and welded.</li> <li>Single and double front door, with reinforcement frame.</li> </ul>		<ul style="list-style-type: none"> <li>Enclosure made up of a structure, consisting of top and bottom, rear panel and vertical profiles.</li> <li>Single and double front door, with reinforcement frame.</li> </ul>	
Material				<ul style="list-style-type: none"> <li>304L stainless-steel</li> <li>316L stainless-steel</li> </ul>		<ul style="list-style-type: none"> <li>304L stainless-steel</li> <li>316L version (on request)</li> </ul>	
Finish				<ul style="list-style-type: none"> <li>Scotch-Brite® brushed finish</li> <li>Micro-beaded and painted finishes (on request)</li> </ul>			
Thickness				15/10° mm		Consult us	
Ingress protection rating				IP55 according to IEC 60529		IP66 (1 door) and IP55 (2 doors) according to IEC 60529	
Mechanical protection rating				IK10 according to IEC 62262			
Standards & certifications				See technical guides page 574			
Installation				Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). <i>Note: For SMX &amp; SFX is not mandatory the installation of a canopy for outdoor use</i>			
Other characteristics				<ul style="list-style-type: none"> <li>Plain front door. Opening to left or right to 120° with reinforcement frame installed: <ul style="list-style-type: none"> <li>3 stainless-steel hinges</li> <li>3-point closure with handle made from painted zamak, 5-mm double bar</li> <li>acceptable load of 50 kg</li> </ul> </li> </ul>			
Supply				<ul style="list-style-type: none"> <li>Welded compact body</li> <li>Single-piece cable-gland plate with sealing gasket</li> <li>Welded mounting plate support brackets</li> </ul>		<ul style="list-style-type: none"> <li>Welded rear panel</li> <li>4 mounting plate-supporting brackets</li> <li>Single-piece cable-gland plate with sealing gasket</li> </ul>	
External dimensions (mm)			Number of front doors	Stainless-steel enclosure		Stainless-steel suitable enclosure	
Height (A)	Width (B)	Depth (C)		304L	316L	304L	
1400	1000	300	2	NSYSMX141030	-	-	
1600	800	400	1	NSYSMX16840	-	-	
1800	600	400	1	NSYSMX18640	-	NSYSFX18640	
	800	400	1	NSYSMX18840	NSYSMX18840H	NSYSFX18840	
	1200	400	2	NSYSMX181240	NSYSMX181240H	NSYSFX181240	
	1600	400	2	NSYSMX181640	NSYSMX181640H	-	
2000	600	500	1	-	-	NSYSFX20650	
	800	400	1	-	-	NSYSFX20840	
	800	500	1	NSYSMX20850	-	-	
	800	600	1	-	-	NSYSFX20860	
	1000	400	2	NSYSMX201040	NSYSMX201040H	-	
	1000	600	2	-	-	NSYSFX201060	
	1200	500	2	NSYSMX201250	NSYSMX201250H	-	
	1200	600	2	-	-	NSYSFX201260	
1600	600	2	NSYSMX201660	NSYSMX201660H	-		

# Stainless-steel floor-standing enclosures

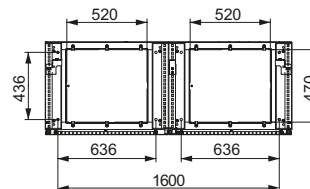
## Dimensions

SMX

Floor-standing enclosure dimensions (mm)			No. of front doors	No. of cable gland plates	Dimensions (mm)	
Height (A)	Width (B)	Depth (C)			E	F
1400	1000	300	2	1	720	270
1600	800	400	1	1	520	270
1800	600	400	1	1	520	270
	800	400	1	1	520	270
	1200	400	2	1	920	270
	1600	400	2	2	1320	270
2000	800	500	1	1	520	370
	1000	400	2	1	720	270
	1200	500	2	1	920	370
	1600	600	2	2	1320	470



Enclosure width of 1000 and 1200 mm.



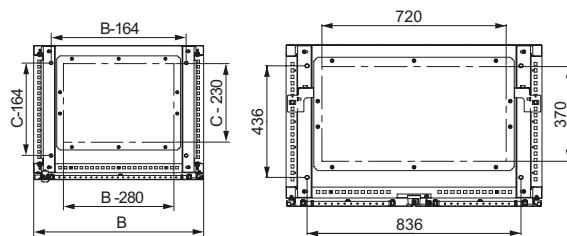
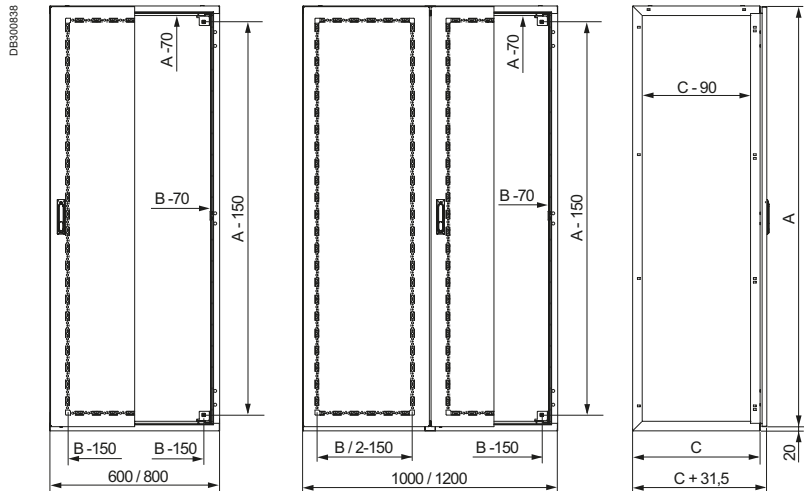
Enclosure width of 1600 mm.

# Stainless-steel floor-standing enclosures

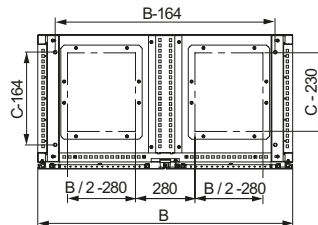
## Dimensions



External dimensions (mm)			No. of front doors	No. of cable gland plates
Height (A)	Width (B)	Depth (C)		
1800	600	400	1	1
	800	400	1	1
	1200	400	2	2
2000	600	500	1	1
	800	400	1	1
	800	600	1	1
	1000	600	2	1
	1200	600	2	2



Enclosure width 1000.



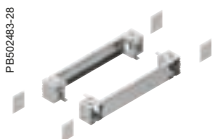
Enclosure width 1200 mm.

# Stainless-steel floor-standing enclosures

## Specific accessories

SMX

PB602483-28



Plinth height 100 mm  
(4 corners + front and back)

PB602485-26



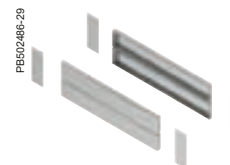
Plinth height 100 mm  
(Set of 2 side panels)

PB602484-34



Plinth height 200 mm  
(4 corners + front and back)

PB602486-29



Plinth height 200 mm  
(Set of 2 side panels)

Characteristics		Stainless-steel plinths											
Material		Stainless-steel, AISI 304L					Stainless-steel, AISI 316L						
Finish		Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion											
Installation		Mounting in the holes for fixing the enclosures to the floor											
External dimensions (mm)		Plinth height 100 mm				Plinth height 200 mm				Plinth height 100 mm		Plinth height 200 mm	
Height (A)	Width (B)	Depth (C)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	
1400	1000	300	NSYSPFX10100	NSYSPSX3100	NSYSPFX10200	NSYSPSX3200	NSYSPFX10100H	NSYSPSX3100H	NSYSPFX10200H	NSYSPSX3200H	-	-	
1600	800	400	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYSPFX8100H	NSYSPSX4100H	NSYSPFX8200H	NSYSPSX4200H	-	-	
1800	600	400	NSYSPFX6100	NSYSPSX4100	NSYSPFX6200	NSYSPSX4200	-	NSYSPSX4100H	-	NSYSPSX4200H	-	NSYSPSX4200H	
	800	400	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYSPFX8100H	NSYSPSX4100H	NSYSPFX8200H	NSYSPSX4200H	-	NSYSPSX4200H	
	1200	400	NSYSPFX12100	NSYSPSX4100	NSYSPFX12200	NSYSPSX4200	NSYSPFX12100H	NSYSPSX4100H	NSYSPFX12200H	NSYSPSX4200H	-	NSYSPSX4200H	
2000	1600	400	NSYSPFX16100	NSYSPSX4100	NSYSPFX16200	NSYSPSX4200	NSYSPFX16100H	NSYSPSX4100H	NSYSPFX16200H	NSYSPSX4200H	-	NSYSPSX4200H	
	600	500	NSYSPFX6100	NSYSPSX5100	NSYSPFX6200	NSYSPSX5200	-	NSYSPSX5100H	-	NSYSPSX5200H	-	NSYSPSX5200H	
	800	400	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYSPFX8100H	NSYSPSX4100H	NSYSPFX8200H	NSYSPSX4200H	-	NSYSPSX4200H	
	800	500	NSYSPFX8100	NSYSPSX5100	NSYSPFX8200	NSYSPSX5200	NSYSPFX8100H	NSYSPSX5100H	NSYSPFX8200H	NSYSPSX5200H	-	NSYSPSX5200H	
	800	600	NSYSPFX8100	NSYSPSX6100	NSYSPFX8200	NSYSPSX6200	NSYSPFX8100H	NSYSPSX6100H	NSYSPFX8200H	NSYSPSX6200H	-	NSYSPSX6200H	
	1000	400	NSYSPFX10100	NSYSPSX4100	NSYSPFX10200	NSYSPSX4200	NSYSPFX10100H	NSYSPSX4100H	NSYSPFX10200H	NSYSPSX4200H	-	NSYSPSX4200H	
	1000	600	NSYSPFX10100	NSYSPSX6100	NSYSPFX10200	NSYSPSX6200	NSYSPFX10100H	NSYSPSX6100H	NSYSPFX10200H	NSYSPSX6200H	-	NSYSPSX6200H	
	1200	500	NSYSPFX12100	NSYSPSX5100	NSYSPFX12200	NSYSPSX5200	NSYSPFX12100H	NSYSPSX5100H	NSYSPFX12200H	NSYSPSX5200H	-	NSYSPSX5200H	
1200	600	NSYSPFX12100	NSYSPSX6100	NSYSPFX12200	NSYSPSX6200	NSYSPFX12100H	NSYSPSX6100H	NSYSPFX12200H	NSYSPSX6200H	-	NSYSPSX6200H		
	1600	600	NSYSPFX16100	NSYSPSX6100	NSYSPFX16200	NSYSPSX6200	NSYSPFX16100H	NSYSPSX6100H	NSYSPFX16200H	NSYSPSX6200H	-	NSYSPSX6200H	



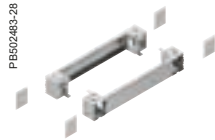
The H200mm stainless-steel ventilated plinths of Outdoor Heavy Duty enclosures (page 379) are compatible with Spacial SMX stainless-steel compact enclosures.



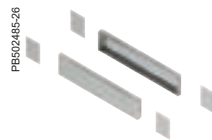
# Stainless-steel floor-standing enclosures

## Specific accessories

SFX



Plinth height 100 mm  
(4 corners + front and back)



Plinth height 100 mm  
(Set of 2 side panels)

Characteristics		Stainless-steel plinths				
Material		Stainless-steel, AISI 304L				
Finish		Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion				
Installation		Mounting in the holes for fixing the enclosures to the floor Suitable for steel floor-standing enclosures (SF and SM)				
External dimensions (mm)		Plinth height 100 mm		Plinth height 200 mm		
Height (A)	Width (B)	Depth (C)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)
1400	1000	300	NSYSPFX10100	-	NSYSPFX10200	-
1600	800	400	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF
1800	600	400	NSYSPFX6100	NSYSPSX4100SF	NSYSPFX6200	NSYSPSX4200SF
	800	400	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF
	1200	400	NSYSPFX12100	NSYSPSX4100SF	NSYSPFX12200	NSYSPSX4200SF
2000	1600	400	-	NSYSPSX4100SF	-	NSYSPSX4200SF
	600	500	NSYSPFX6100	NSYSPSX5100SF	NSYSPFX6200	NSYSPSX5200SF
	800	400	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF
	800	500	NSYSPFX8100	NSYSPSX5100SF	NSYSPFX8200	NSYSPSX5200SF
	800	600	NSYSPFX8100	NSYSPSX6100SF	NSYSPFX8200	NSYSPSX6200SF
	1000	400	NSYSPFX10100	NSYSPSX4100SF	NSYSPFX10200	NSYSPSX4200SF
	1000	600	NSYSPFX10100	NSYSPSX6100SF	NSYSPFX10200	NSYSPSX6200SF
	1200	500	NSYSPFX12100	NSYSPSX5100SF	NSYSPFX12200	NSYSPSX5200SF
1200	600	NSYSPFX12100	NSYSPSX6100SF	NSYSPFX12200	NSYSPSX6200SF	
1600	600	-	NSYSPSX6100SF	-	NSYSPSX6200SF	



The H200mm stainless-steel ventilated plinths of Outdoor Heavy Duty enclosures (page 379) are compatible with Spacial SFX stainless-steel suitable enclosures.

# Stainless-steel floor-standing enclosures

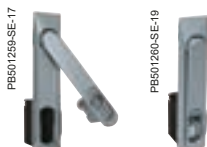
## Specific accessories

**SMX**  
PE50123B-30

**New**
**SFX**  
PE50123B-24


Characteristics			Canopy*	
			Guarantees very high protection of the enclosure when used outdoors.	
Material			<ul style="list-style-type: none"> <li>■ 304L stainless-steel sheet</li> <li>■ Other types of stainless-steel, contact us</li> </ul>	
Finish			<ul style="list-style-type: none"> <li>■ Scotch-Brite® brushed</li> <li>■ Other finishes, contact us</li> </ul>	
Thickness			15/10* mm	
Installation			It is fixed in the same holes as the eyebolt. Delivered with fixings. Other dimensions and canopy for sets, contact us	
External dimensions (mm)			<b>Top-mounting</b>	
Height (A)	Width (B)	Depth (C)		
1400	1000	300	NSYSCTX10030	-
1600	800	400	NSYSCTX8040	-
1800	600	400	NSYSCTX6040	NSYSCTX6040
	800	400	NSYSCTX8040	NSYSCTX8040
	1200	400	NSYSCTX12040	NSYSCTX12040
	1600	400	NSYSCTX16040	-
2000	600	500	-	NSYSCTX6050
	800	400	-	NSYSCTX8040
	800	500	NSYSCTX8050	-
	800	600	-	NSYSCTX8060
	1000	400	NSYSCTX10040	-
	1000	600	-	NSYSCTX10060
	1200	500	NSYSCTX12050	-
	1200	600	-	NSYSCTX12060
	1600	600	NSYSCTX16060	-

\* New canopy for Spacial SMX available in 2019. Till then, use the same canopy than SFX.



The enclosures Spacial SMX & SFX are delivered as standard with retractable handle made from painted zamak with 5mm double bar insert, spare ref. **NSYMCSX**

Transformation of the standard insert by other shape inserts or barrels according the following table:



Characteristics		Locking options						
Type	Shape insert	5 mm double-bar insert.			Triangular insert.		Padlocking system	
		Square insert.		Triangular insert.		Padlocking device.		
		6 mm	7 mm	8 mm	6.5 mm		8 mm	
Supply	Insert with key	Insert with key			1 pack		1 pack	
References		NSYTD5ME	NSYTC6ME	NSYTC7ME	NSYTC8ME	NSYTT6ME	NSYTT8ME	NSYBCME

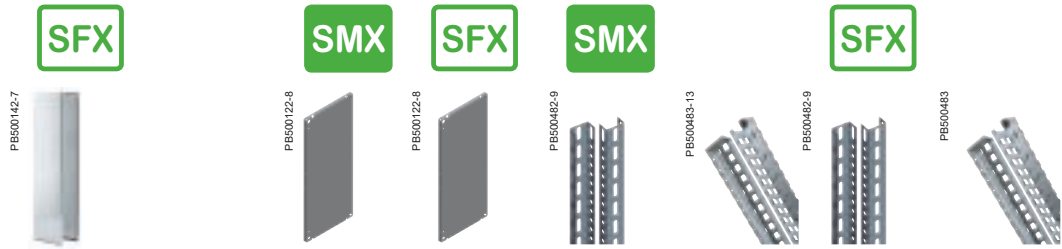
Characteristics		Locking options												
Type	Barrels	Reinforced key and barrel.			JIS key and barrel.		Manual.		Barrel and key 405E.		Barrel and key 610E.		Barrel and key 1242E.	
		1 pack		1 pack		1 pack		Barrels with 1 key		Barrels with 1 key		Barrels with 1 key		
Supply		1 pack		1 pack		1 pack		Barrels with 1 key		Barrels with 1 key		Barrels with 1 key		
References		NSYTLRME	NSYTLJISME	NSYTMME	NSYTCL405ME	NSYTCL610ME	NSYTL1242EME							



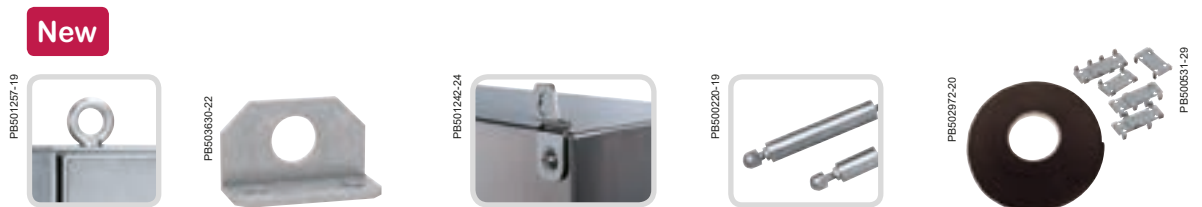
Door switch	
For Spacial SFX	
See page	272
Supply	1
Reference	NSYDCM20

# Stainless-steel floor-standing enclosures

## Specific accessories



Characteristics			Side panels	Plain mounting plate		Uprights vertical			
			<ul style="list-style-type: none"> <li>Side panels including a polyurethane sealing gasket.</li> <li>Their special design guarantees the protection of the door gasket.</li> <li>304L stainless-steel sheet</li> </ul>	-	-				
Material			-	-					
External dimensions (mm)						Standard	Technical	Standard	Technical
Height (A)	Width (B)	Depth (C)							
1400	1000	300	-	NSYMP1410	-	-	NSYTVR14	-	-
1600	800	400	-	NSYMP168	-	-	NSYTVR16	-	-
1800	600	400	NSY2SPX184	NSYMP186	NSYMP186	NSYVR18	NSYTVR18	NSYVR18	NSYTVR18
	800	400	NSY2SPX184	NSYMP188	NSYMP188	NSYVR18	NSYTVR18	NSYVR18	NSYTVR18
	1200	400	NSY2SPX184	NSYMP1812	NSYMP1812	NSYVR18	NSYTVR18	NSYVR18	NSYTVR18
2000	1600	400	-	NSYMP1816	-	NSYVR18	NSYTVR18	-	-
	600	500	NSY2SPX205	-	NSYMP206	-	-	NSYVR20	NSYTVR20
	800	400	NSY2SPX204	-	NSYMP208	-	-	NSYVR20	NSYTVR20
	800	500	NSY2SPX205	NSYMP208	-	NSYVR20	NSYTVR20	-	-
	800	600	NSY2SPX206	-	NSYMP208	-	-	NSYVR20	NSYTVR20
	1000	400	-	NSYMP2010	-	NSYVR20	NSYTVR20	-	-
	1000	600	NSY2SPX206	-	NSYMP2010	-	-	NSYVR20	NSYTVR20
	1200	500	-	NSYMP2012	-	NSYVR20	NSYTVR20	-	-
	1200	600	NSY2SPX206	-	NSYMP2012	-	-	NSYVR20	NSYTVR20
1600	600	-	NSYMP2016	-	NSYVR20	NSYTVR20	-	-	



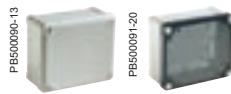
Characteristics	Eyebolts*	Lifting bracket	Wall-fixing lugs	Hygienic feet	Coupling kit
	-	For SFX.	For SMX.	Recommended for applications that require special hygiene conditions.	For SFX. Used for joining enclosures side by side.
Material	Stainless-steel 304	Treated steel	304L stainless-steel	316L stainless-steel	<ul style="list-style-type: none"> <li>Flat connectors and brackets: zinc-coated steel (NSYSFBK19)</li> <li>Sealing gasket: EPDM (NSYSFXJG)</li> </ul>
Ingress protection rating	-	-	-	-	IP55
Installation	It is fixed using fixing nuts supplied	They are fixed instead of the eyebolts on two suitable enclosures side-by-side, guaranteeing the rigidity of the enclosure when lifted	<ul style="list-style-type: none"> <li>Mounting of the wall-fixing lugs in horizontal or vertical position</li> <li>Fixing from the outside</li> </ul>	Adjustable between 140 mm and 200 mm height	Fixing from the inside of the enclosures
Maximum load	340 kg when slinging at 60°	1300 kg when slinging at 60°	<ul style="list-style-type: none"> <li>Horizontal: 180 kg</li> <li>Vertical: 350 kg</li> </ul>	Per foot: 100 kg	-
Supply	Set of four M12 eyebolts	Set of four lifting brackets	Set of four wall-fixing lugs	Set of 4 adjustable feet	-
<b>References</b>	<b>NSYSMXEB</b>	<b>NSYPUNX</b>	<b>NSYFCMX</b>	<b>NSYPHX200</b>	<b>NSYSFBK19 + NSYSFXJG</b>

\* Consult us for availability.

# Insulating boxes

# Insulating boxes

## Contents



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### Thalassa PLS Insulating modular boxes **148**



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# Insulating industrial boxes

## Introduction

### > Insulating industrial boxes:

- ABS for conventional applications (IK07) with the usual constraints,
- polycarbonate for enhanced impact resistance (IK08) and for outdoor applications or applications directly exposed to UV,
- polycarbonate certified UL,
- IP66 rating for all ranges,
- Protection against electrical impacts Class II.

PB500271-32



### Easy to install

3 methods of fixing the box to its support.

PB500273-72



### Easy to use

Only one tool is required: a flat screwdriver.

PB500091



### Smart

Fixing studs on the cover.

PB500248E-55



**This range can be configured according to your needs**

**4 different services available:**



Assemble  
to order



Mounting  
of standard  
accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

# Insulating industrial boxes

## Characteristics



Class II

PB500090-16



PB500091-24



PB500250-15



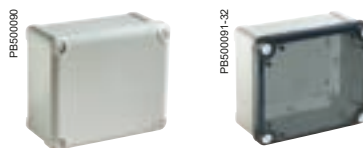
PB500252-22



Characteristics	Universal boxes with IP66	Equipped button boxes, in ABS with IP54	ABS boxes for buttons, to be equipped
	<ul style="list-style-type: none"> <li>■ Boxes that can be coupled (exactly the same dimensions) with kit ref. <b>13934</b>.</li> <li>■ Locks from box size of 116 x 116 x 62 mm:               <ul style="list-style-type: none"> <li><input type="checkbox"/> cover locking by 4 plastic captive screws with coarse thread outside the sealed area,</li> <li><input type="checkbox"/> plumbable lock.</li> </ul> </li> <li>■ Locks from box size of 138 x 93 x 72 mm:               <ul style="list-style-type: none"> <li><input type="checkbox"/> the standard screws (flat screwdriver) can be replaced with other standardised screws (page 142).</li> <li>■ The 4 "legs" of the cover ensure its robustness and perfect support during customisation operations.</li> </ul> </li> <li>■ Adaptable hinges on all the 20- and 40-mm covers (page 144).</li> </ul>		
Material	<ul style="list-style-type: none"> <li>■ <b>ABS boxes:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> glow wire resistance: 650°C according to IEC 60695-2-11</li> <li><input type="checkbox"/> usage temperature: -25°C...+60°C</li> <li><input type="checkbox"/> installation temperature: -15°C...+40°C</li> </ul> </li> <li>■ <b>Polycarbonate boxes:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> glow wire resistance: 960°C</li> <li><input type="checkbox"/> usage temperature: -25°C...+80°C</li> <li><input type="checkbox"/> installation temperature: -15°C...+60°C</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>■ <b>ABS boxes:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> glow wire resistance: 650°C according to IEC 60695-2-11</li> <li><input type="checkbox"/> usage temperature: -25°C...+60°C</li> <li><input type="checkbox"/> installation temperature: -15°C...+40°C</li> </ul> </li> </ul>	
Colour	<ul style="list-style-type: none"> <li>■ Body: RAL 7035 grey</li> <li>■ Cover: RAL 7035 grey or transparent</li> </ul>		
Ingress protection rating	IP66 according to IEC 60529	IP54 according to IEC 60529	-
Mechanical protection rating	<ul style="list-style-type: none"> <li>■ <b>ABS:</b> IK07 according to IEC 62262</li> <li>■ <b>Polycarbonate:</b> IK08 according to IEC 62262</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>ABS:</b> IK07 according to IEC 62262</li> </ul>	
Standards	IEC 62208		
Certifications (see page 574)	<ul style="list-style-type: none"> <li>■ IEC 62208 certified by TÜV</li> <li>■ SEMKO, DEMKO</li> <li>■ UL 508A: polycarbonate range</li> <li>■ Product Environmental Profile</li> <li>■ Class II according to IEC 61140</li> <li>■ <b>Polycarbonate range:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> NEMA 4.4X according to NEMA 250</li> <li><input type="checkbox"/> self-extinguishing: UL 94 V-0</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>■ IEC 62208 certified by TÜV</li> <li>■ SEMKO, DEMKO</li> <li>■ Product Environmental Profile</li> <li>■ Class II according to IEC 61140</li> </ul>	
Installation	<p><b>Fixing the box</b></p> <ul style="list-style-type: none"> <li>■ Outside the sealed sensitive volume by the 4 chimneys in the corners from box size of 138 x 93 x 72 mm</li> <li>■ Through the rear of the box by 2 or 4 elongated holes to be perforated</li> <li>■ With fixing lugs from box size of 116 x 116 x 62 mm (ref. <b>NSYAEFTB</b>)</li> </ul> <p><b>Outdoor installation, only for polycarbonate range:</b> compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). For external use, a canopy should be installed on the upper of the boxes or the boxes should be installed under a shelter to protect them against the different weather conditions and to avoid water stagnation between body and lid.</p> <p><b>Equipment installation</b></p> <ul style="list-style-type: none"> <li>■ Studs for fixing the equipment in the body and the cover of the box by means of a Ø 4-mm self-tapping screw (ref. <b>NSYAMFSTB</b>, screw Ø 4 x 10 mm with Pozidriv and slotted head)</li> <li>■ Option of installing rails, plates (page 145) or other types of supports (card, etc.)</li> <li>■ Spacers and stand-offs to be installed on the studs, for adjusting the height of the equipment</li> </ul>		
Other characteristics	<ul style="list-style-type: none"> <li>■ Anti-condensation valves available as an accessory, prevent the build-up of moisture inside the box</li> </ul>		

# Insulating industrial boxes

## Selection guide



Overall external dimensions			Overall internal dimensions			Body	Cover	Minor pack.	Cover screw	Universal boxes with IP66			
(mm)			(mm)			(mm)	(mm)			ABS IP66 IK07		PC-UL IP66 IK08	
Height	Width	Depth	Height	Width	Depth					Opaque cover	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	5	Metal	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	5	Metal	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	5	Metal	NSYTBS1176	-	NSYTBP1176	-
		94	105	65	85	45	40	3	Metal	NSYTBS1179H	-	-	-
	116	62	105	105	55	45	10	5	Plastic	NSYTBS11116	-	NSYTBP11116	-
		133	105	105	125	45	80	2	Plastic	NSYTBS111113H	-	-	-
138	93	72	125	80	65	45	20	2	Plastic	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	150	105	80	60	20	2	Plastic	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	175	105	80	60	20	2	Plastic	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
		105	175	105	100	60	40	2	Plastic	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
	164	87	175	150	80	60	20	1	Plastic	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
		105	175	150	100	60	40	1	Plastic	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	225	175	80	60	20	1	Plastic	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
		107	225	175	100	80	20	1	Plastic	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
		107	225	175	100	60	40	1	Plastic	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
		127	225	175	120	80	40	1	Plastic	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	275	225	80	60	20	1	Plastic	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
		128	275	225	120	100	20	1	Plastic	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
		128	275	225	120	60	60	1	Plastic	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
		168	275	225	160	100	60	1	Plastic	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	1	Plastic	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
		168	325	275	160	100	60	1	Plastic	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

## Mounting plates



Characteristics					Mounting plates	
					Mounting plates made to adapt to all usage scenarios.	
Material					Galvanised-steel	Insulating polyester plate reinforced with fibreglass, halogen-free: glow wire resistance 750°C according to IEC 60695-2-11.
Thickness					15/10° mm	25/10° mm
Installation					<ul style="list-style-type: none"> <li>■ Fixing by means of Ø 4-mm self-tapping screws, Pozidrive and slotted head, ref. <b>NSYAMFSTB</b></li> <li>■ To raise the plate, use the stand-offs ref. <b>NSYAMFET154TB</b>, <b>NSYAMFET204TB</b>, <b>NSYAMFET304TB</b> and the screw <b>NSYAMFESTB</b></li> <li>■ To stack several mounting plates, use the spacers, ref. <b>NSYAMFEP154TB</b>, <b>NSYAMFEP204TB</b>, <b>NSYAMFEP304TB</b> and the screw <b>NSYAMFESTB</b></li> </ul>	
Supply					Plates supplied without screws	
Box (mm)		Dimensions (mm)		Minor pack.	References	
Height	Width	A	B			
192	164	168.5	140	1	<b>NSYAMP1916TB</b>	<b>NSYAMPA1916TB</b>
241	194	215	168.5	1	<b>NSYAMP2419TB</b>	<b>NSYAMPA2419TB</b>
291	241	265	215	1	<b>NSYAMP2924TB</b>	<b>NSYAMPA2924TB</b>
341	291	315	265	1	<b>NSYAMP3429TB</b>	<b>NSYAMPA3429TB</b>



# Insulating industrial boxes

## Selection guide



Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Minor pack.	Boxes equipped with IP54 ABS buttons	ABS button boxes, to be equipped				
Height	Width	Depth	Height	Width	Depth				Function	References	No. of holes	Cover	References	
74	74	83	-	-	-	-	-	1	Emergency switching off	<b>XALEK1702</b> (1)	-	-	-	
116	74	62	105	65	55	45	10	5	-	-	2	Grey	<b>XALE2</b>	
		62	105	65	55	45	10	5	-	-	3	Grey	<b>XALE3</b>	
		75	-	-	-	-	-	-	1	Start / stop	<b>XALE2141</b>	-	-	-
		75	-	-	-	-	-	-	1	Up / down / stop	<b>XALE3255</b>	-	-	-

(1) Ref. **XALEK1702** houses an emergency switching off palm button with mechanical locking according to standards IEC 60364-5-53 and 60947-5-5.

### Button description

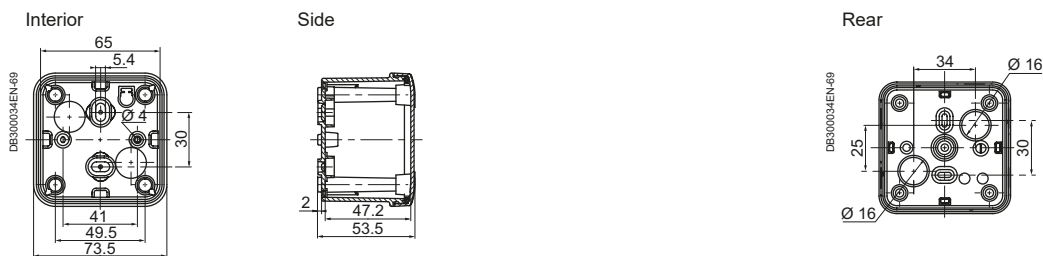
- Emergency switching off function with a red, Ø 40 mm, "turn to unlock" palm button.
- Start / Stop function with 2 push buttons.
- Up / Down / Stop function with 3 push buttons.
- Technical features of the switches:
  - "NC" switch with positive opening manoeuvre according to IEC 60947-5-1 appendix K,
  - mechanical durability of the emergency switch: 0.1 million cycles,
  - mechanical durability of the "NC" and "NO" switches: 5 million cycles,
  - protection against short circuits: 10 A.

Function	Type			Type of push
	"NO"	"NC"	"C / O"	
Emergency switching off	1	1	-	Latching, red
Start/stop				
Start	1	-	-	Flush, green
Stop	-	1	-	Projecting, red
Up / down / stop				
Up	-	-	1	Flush, black
Down	-	-	1	Flush, white
Stop	-	1	-	Projecting, red
	DB300033	DB300033	DB300033	

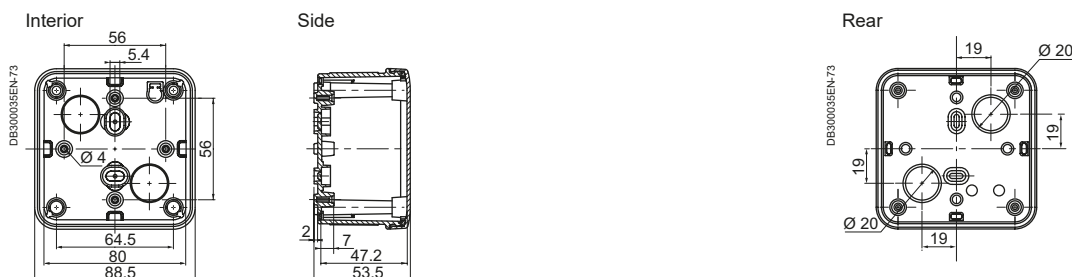
# Insulating industrial boxes

## Dimensions

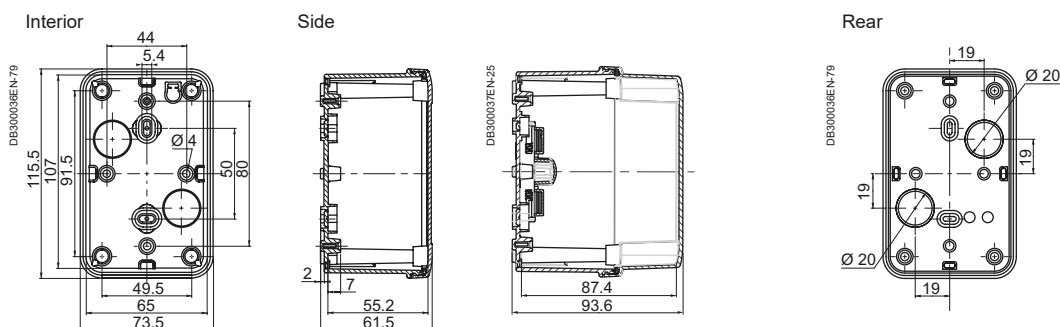
### Box of 74 x 74 x 54 mm (external dimensions) NSYTB...775



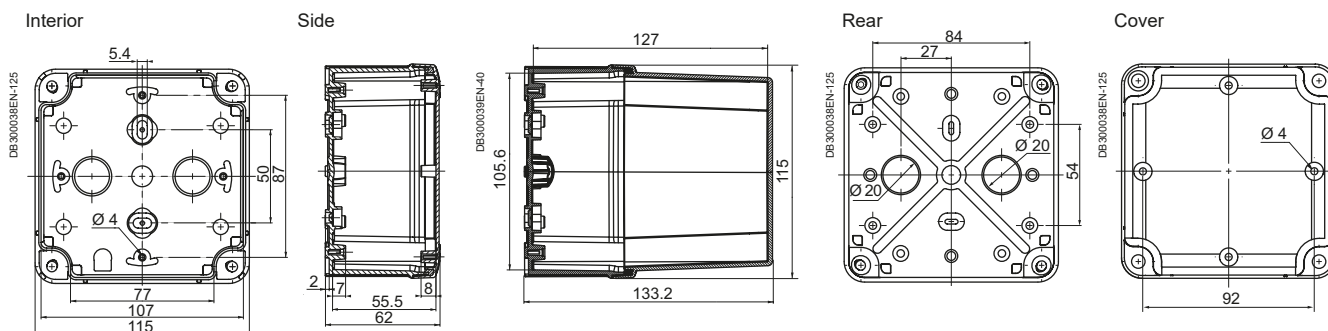
### Box of 89 x 89 x 54 mm (external dimensions) NSYTB...885



### Box of 116 x 74 x 62 or 94 mm (external dimensions) NSYTB...1176 or NSYTB...1179



### Box of 116 x 116 x 62 or 133 mm (external dimensions) NSYTB...11116 or NSYTB...11113



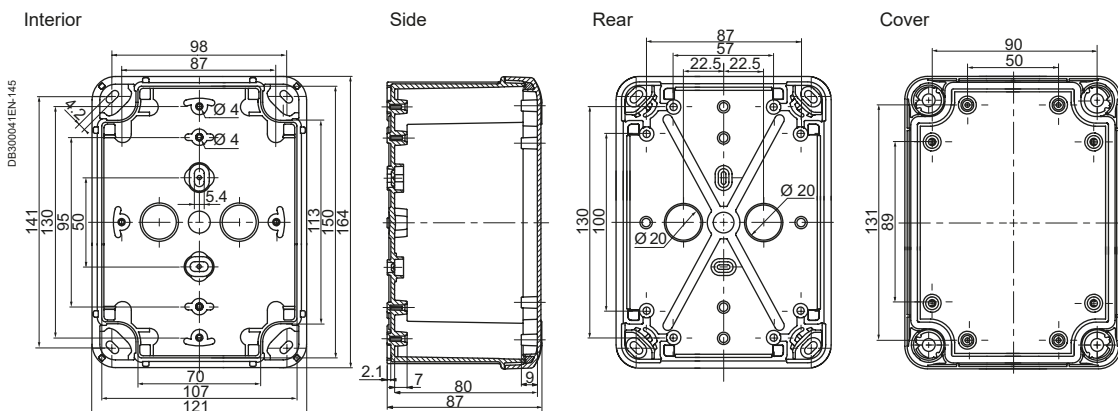
### Box of 138 x 93 x 72 mm (external dimensions) NSYTB...1397



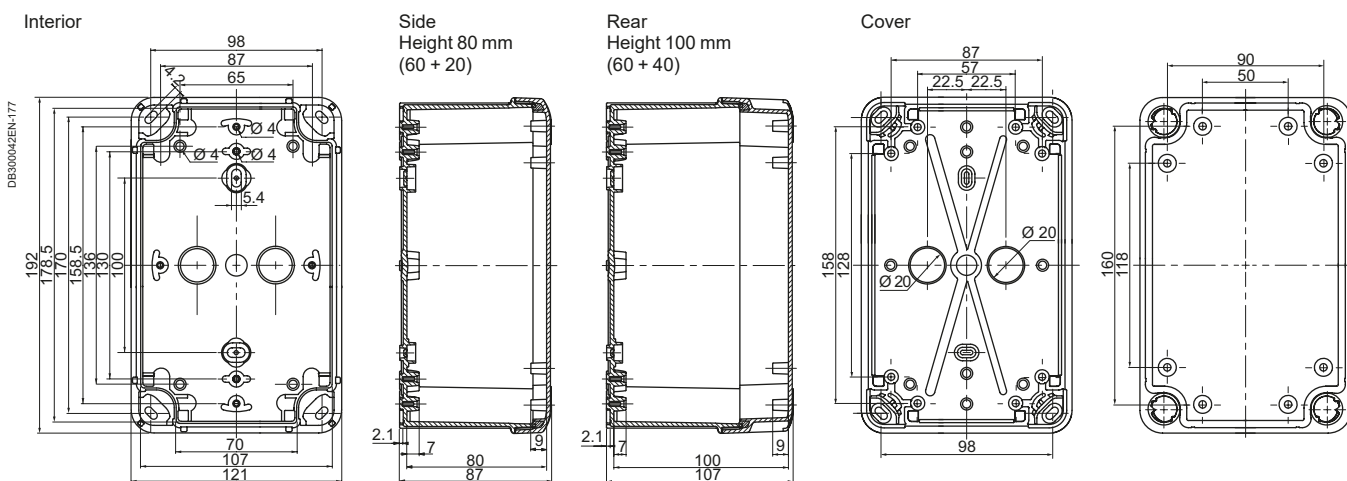
# Insulating industrial boxes

## Dimensions

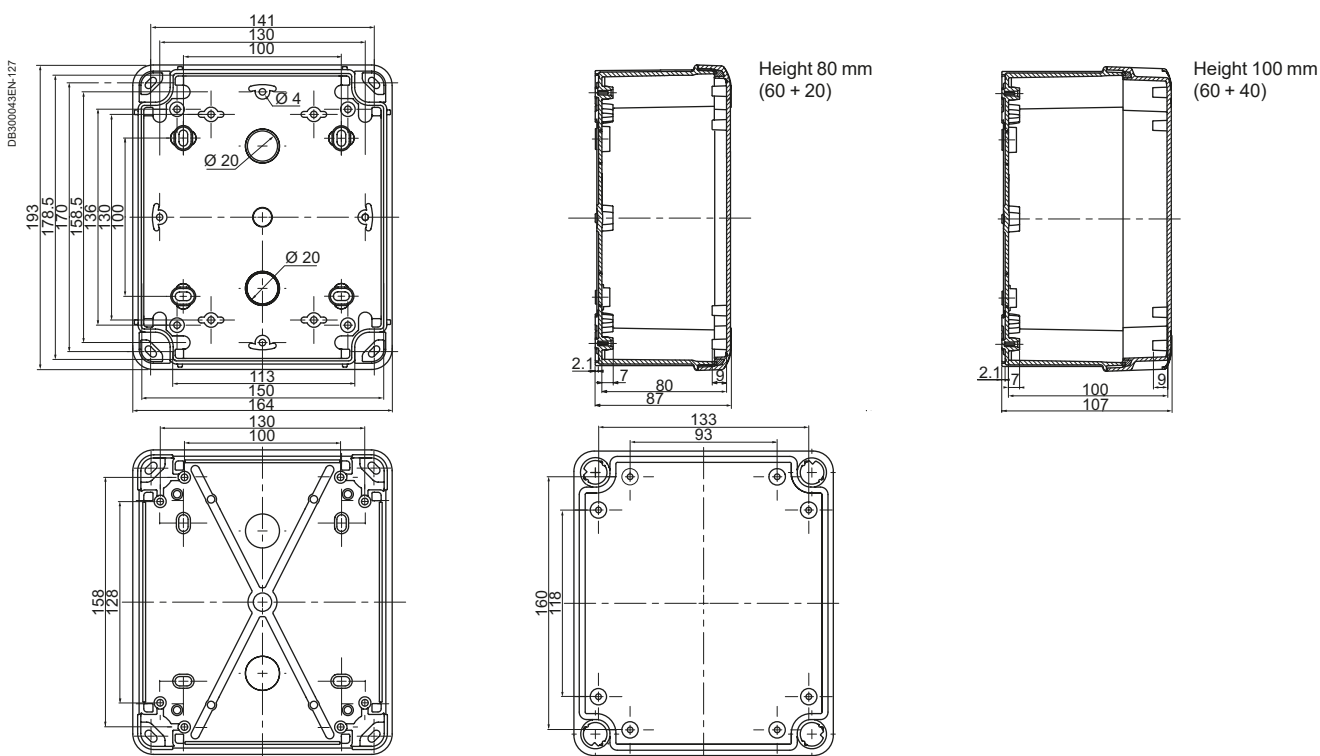
### Box of 164 x 121 x 87 mm (external dimensions) NSYTB...16128



### Box of 192 x 121 x 87 or 105 mm (external dimensions) NSYTB...19128 or NSYTB...191210



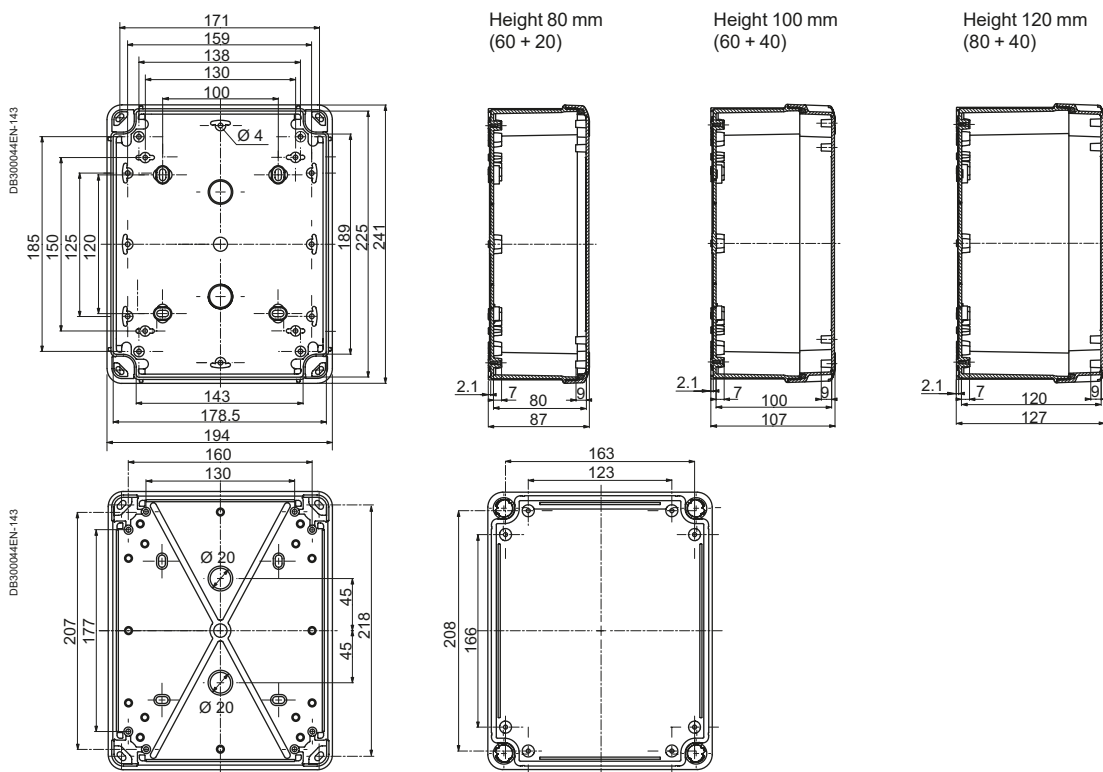
### Box of 192 x 164 x 87 or 105 mm (external dimensions) NSYTB...19168 or NSYTB...191610



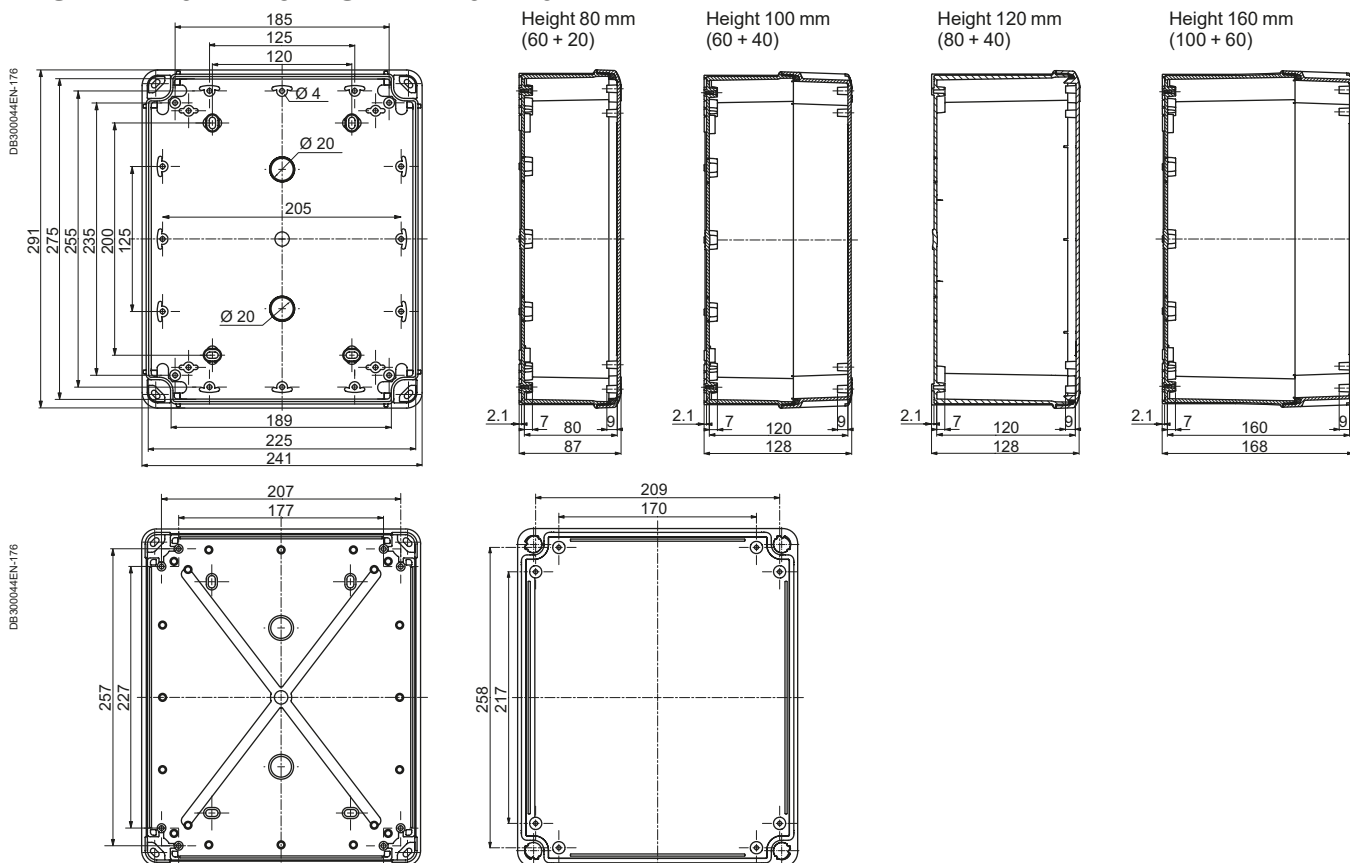
# Insulating industrial boxes

## Dimensions

### Box of 241 x 194 x 87, 107 or 127 mm (external dimensions) NSYTB...24198, NSYTB...241910 or NSYTB...241912



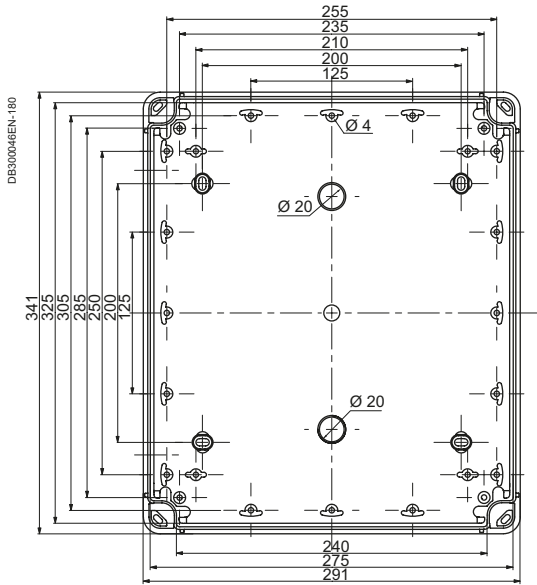
### Box of 291 x 241 x 88, 128 or 168 mm (external dimensions) NSYTB...29248, NSYTB...292412 or NSYTB...292416



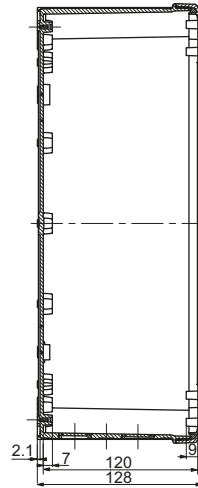
# Insulating industrial boxes

## Dimensions

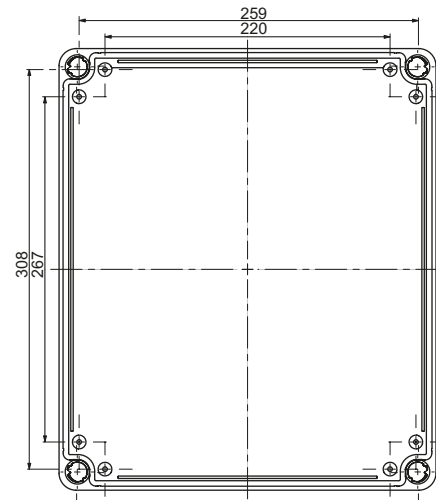
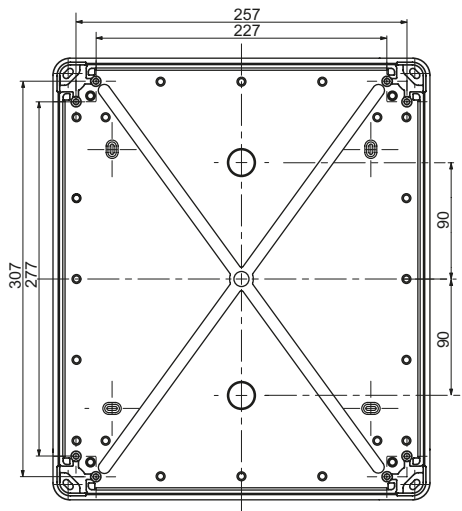
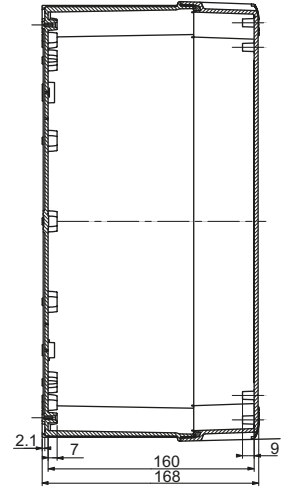
**Box of 341 x 291 x 128 or 168 mm (external dimensions) NSYTB...342912 or NSYTB...342916**



Height 120 mm  
(80 + 40)

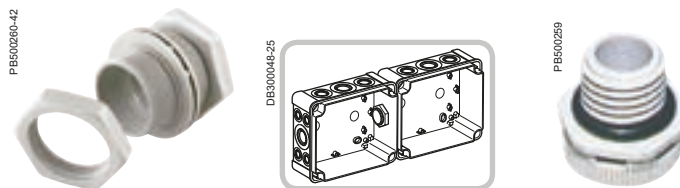


Height 160 mm  
(100 + 60)



# Insulating industrial boxes

## Specific accessories



Characteristics		Coupling kit	Sealed anti-condensation valve		
		The coupling kit allows you to join several boxes with dimensions from 138 x 93 mm.	Controls the pressure to avoid condensation following an internal temperature increase. <b>Applications</b> Protection of equipment for luminaires, industrial control, transportation, pumps, etc.		
Material		Polystyrene, glow wire resistance: 650°C according to IEC 60695-2-11	PA6- UL 94 V2		
Ingress protection rating		IP66 according to IEC 60529	IP68 according to IEC 60529		
Installation		The kit is installed by drilling a hole with Ø 32 mm in the boxes to be coupled	The valve is installed by drilling a hole with Ø 12 mm in the box		
Usage temperature		-	-40...+105°C		
Supply		The kit consists of 2 linking parts, nuts and seals	10 valves, nuts and seals		
Drill Ø	Minor pack.	Reference	Permeability (1)	Pressure difference (2)	References
32 mm	1	<b>13934</b>	-	-	-
M12	10	-	16 litres/h	$\Delta P < 1$ bar	<b>NSYCAG12LPH1</b>
M12	10	-	120 litres/h	$\Delta P < 0.1$ bar	<b>NSYCAG12LPH2</b>

(1) Air flow under  $\Delta P = 0.7$  bar.  
(2) Condition for IP68.

## Cover accessories



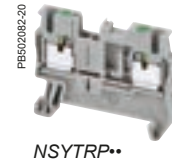
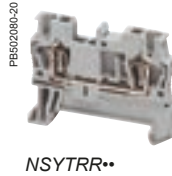
Characteristics		Set of 4 shape screws	Pack of 4 handles		
		<ul style="list-style-type: none"> <li>The Thalassa boxes are delivered as standard with slotted-head screws for flat screwdrivers from 4 to 5.5 mm.</li> <li>With box sizes from 138 x 93 x 72 mm, these screws can be replaced for screws with different standardised heads, to comply with most cases.</li> <li>After removing the standard screw, simply position the new screw by pressing on it.</li> <li>The adapter clips (intermediate parts for tightening the cover on the body of the box) are the same as those for the standard screws. They are not delivered with the shape screws (see drawing on page 144).</li> <li>A single key for opening the boxes as well as the other enclosures of your installation.</li> </ul>	<ul style="list-style-type: none"> <li>The handle (or thumbwheel) allows the screws to be handled without any tools. It is ideally associated with a box equipped with hinges.</li> <li>It snaps onto the head of the standard plastic screw.</li> </ul>		
Type	Minor pack.	Height of the lid (mm)			
		20	40	60	
Triangle	6.5 mm	<b>NSYAEDST620TB (1)</b>	-	-	-
	8 mm	<b>NSYAEDST820TB</b>	-	-	-
Double bar	3 mm	<b>NSYAEDSB320TB</b>	-	-	-
	5 mm	<b>NSYAEDSB520TB</b>	-	-	-
Spare standard plastic screw	1	<b>NSYAEDS20TB</b>	<b>NSYAEDS40TB</b>	<b>NSYAEDS60TB</b>	-
Pack of 4 handles	1	-	-	-	<b>NSYAEDKTB</b>

(1) CNOMO.

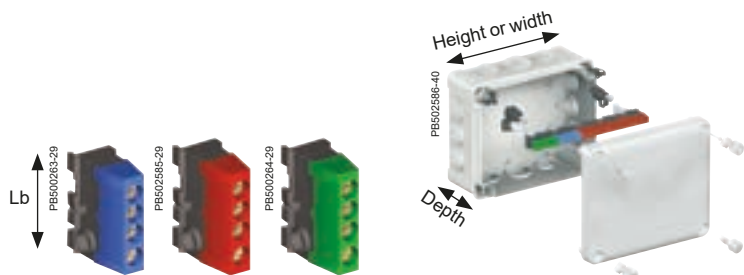
# Insulating industrial boxes

## Specific accessories

### Terminal blocks



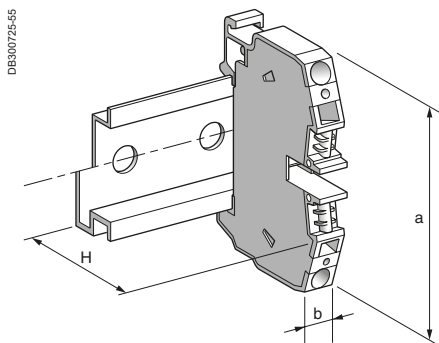
Characteristics		DIN rail terminal blocks								
		<ul style="list-style-type: none"> <li>The new Linergy TR terminal blocks have 3 types of connections: screw, spring or "push-in" and they can be mounted on a DIN rail.</li> <li>Available in grey, blue, orange, red, green, black or white color.</li> </ul>								
Minor pack.	50									
Type	Screw connection				Spring connection				"Push-in" connection	
	H (mm)	W (mm)	D (mm)	References	H (mm)	W (mm)	D (mm)	References	References	
Passthrough, 2.5 mm <sup>2</sup> , grey	47.7	5.2	47.5	NSYTRV22	36.5	5.2	48.5	NSYTRR22	NSYTRP22	
Passthrough, 2.5 mm <sup>2</sup> , blue	47.7	5.2	47.5	NSYTRV22BL	36.5	5.2	48.5	NSYTRR22BL	NSYTRP22BL	
Protective earth, 2.5 mm <sup>2</sup>	47.7	5.2	47.5	NSYTRV22PE	36.5	5.2	48.5	NSYTRR22PE	NSYTRP22PE	
Passthrough, 4 mm <sup>2</sup> , grey	47.7	6.2	47.5	NSYTRV44	36.5	6.2	56	NSYTRR42	NSYTRP42	
Passthrough, 4 mm <sup>2</sup> , blue	47.7	6.2	47.5	NSYTRV44BL	36.5	6.2	56	NSYTRR42BL	NSYTRP42BL	
Protective earth, 4 mm <sup>2</sup>	47.7	6.2	47.5	NSYTRV44PE	36.5	6.2	56	NSYTRR42PE	NSYTRP42PE	



Characteristics		4-hole terminal blocks		
		<ul style="list-style-type: none"> <li>The terminal-block support bar is particularly well suited to the thermoplastic boxes.</li> <li>Boxes with sizes from 192 x 116 mm can accommodate a terminal-block support bar of 12 x 2 mm.</li> <li>The screwing terminal blocks are easily clipped onto this bar.</li> <li>Terminal-block connection capacity: see the selection table below.</li> </ul>		
Minor pack.	10		5	
Type	Red (live)	Blue (neutral)	Green (earth)	
4-hole terminal blocks* 2 x 10 <sup>2</sup> + 2 x 16 <sup>2</sup>	IMT34003	IMT34005	IMT34007	
Earth terminal block** 2 x 25 <sup>2</sup>	IMT34009	-	-	

\* Terminal block length (Lb): 30 mm.

\*\* The earth terminal snap fits into boxes with dimensions of less than 116 x 116 mm.



Terminal-block support bar				No. of Terminal blocks 2 x 10 <sup>2</sup> + 2 x 16 <sup>2</sup> 4 holes	Support length Ls (mm)
Height or width	Min. depth	Minor pack.	References		
192	87	1	IMT34000	4	140
241	87	1	IMT34001	6	185
291	128	1	IMT34002	8	235

Discover our complete terminal blocks range in LVYED213001EN.

# Insulating industrial boxes

## Specific accessories

### Hinges



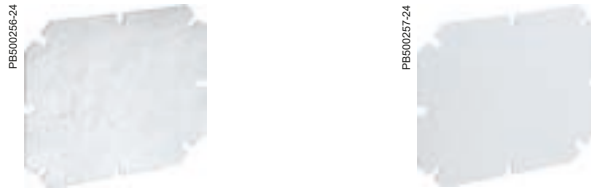
Characteristics	Set of 2 hinges	Set of 4 fixing lugs								
Ingress protection rating	IP66 according to IEC 60529	-								
Installation	<ul style="list-style-type: none"> <li>The hinge does not require any machining and is installed easily even with the box already equipped</li> </ul>	Installation by a single screw at the last moment, with the box closed and equipped								
Maximum load	Hinged cover: 10 kg/m <sup>2</sup>	<ul style="list-style-type: none"> <li>Body: 30 kg/m<sup>2</sup></li> <li>Cover: 10 kg/m<sup>2</sup></li> </ul>								
Minor pack.	1	1								
Supply	The hinges (2 per set) are delivered with the fixings	4 lugs + screws								
	<table border="1"> <thead> <tr> <th>Height of the lid (mm)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>NSYAEDH20TB</td> </tr> <tr> <td>40</td> <td>NSYAEDH40TB</td> </tr> </tbody> </table>	Height of the lid (mm)	References	20	NSYAEDH20TB	40	NSYAEDH40TB	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYAEFTB</td> </tr> </tbody> </table>	Reference	NSYAEFTB
Height of the lid (mm)	References									
20	NSYAEDH20TB									
40	NSYAEDH40TB									
Reference										
NSYAEFTB										



# Insulating industrial boxes

## Specific accessories

### Installation accessories

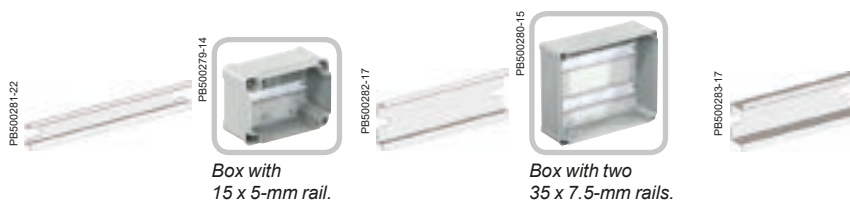


Characteristics					Mounting plates		
					Mounting plates made to adapt to all usage scenarios.		
Material					Galvanised-steel	Insulating polyester plate reinforced with fibreglass, halogen-free: glow wire resistance 750°C according to IEC 60695-2-11.	
Thickness					15/10° mm	25/10° mm	
Installation					<ul style="list-style-type: none"> <li>■ Fixing by means of Ø 4-mm self-tapping screws, Pozidrive and slotted head, ref. <b>NSYAMFSTB</b></li> <li>■ To raise the plate, use the stand-offs ref. <b>NSYAMFET154TB</b>, <b>NSYAMFET204TB</b>, <b>NSYAMFET304TB</b> and the screw <b>NSYAMFESTB</b></li> <li>■ To stack several mounting plates, use the spacers, ref. <b>NSYAMFEP154TB</b>, <b>NSYAMFEP204TB</b>, <b>NSYAMFEP304TB</b> and the screw <b>NSYAMFESTB</b></li> </ul>		
Supply					Plates supplied without screws		
Box (mm)		Dimensions (mm)		Minor pack.	References		
Height	Width	A	B				
192	164	168.5	140	1	<b>NSYAMP1916TB</b>	<b>NSYAMPA1916TB</b>	
241	194	215	168.5	1	<b>NSYAMP2419TB</b>	<b>NSYAMPA2419TB</b>	
291	241	265	215	1	<b>NSYAMP2924TB</b>	<b>NSYAMPA2924TB</b>	
341	291	315	265	1	<b>NSYAMP3429TB</b>	<b>NSYAMPA3429TB</b>	
Accessories					Pack of 100 screws		
Ø 4 x 10 mm					1	<b>NSYAMFSTB</b>	<b>NSYAMFSTB</b>

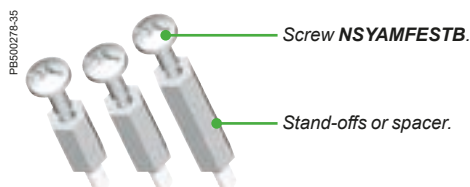
# Insulating industrial boxes

## Specific accessories

### Installation accessories



Characteristics	Rails					
	Symmetric DIN rails. ■ A 15 x 5-mm rail is provided for the compact terminal blocks. ■ To raise the rail, use stand-offs ref. <b>NSYAMFET154TB</b> , <b>NSYAMFET204TB</b> , <b>NSYAMFET304TB</b> and the screw <b>NSYAMFESTB</b> .					
Installation	Fixing of the rails with $\varnothing$ 4-mm self-tapping screws, (not included), Pozidrive and slotted head, ref. <b>NSYAMFSTB</b>					
Supply	Supplied without screws (except for the 15 x 5 mm rails)					
For boxes with height or width (mm)	15 x 5 mm		35 x 7.5 mm		35 x 15 mm	
	Minor pack.	References	Minor pack.	References	Minor pack.	References
105	10	<b>NSYAMRD11155TB</b>	10	<b>NSYAMRD11357TB</b>	-	-
150	10	<b>NSYAMRD16155TB</b>	10	<b>NSYAMRD16357TB</b>	-	-
175	10	<b>NSYAMRD19155TB</b>	10	<b>NSYAMRD19357TB</b>	-	-
225	10	<b>NSYAMRD24155TB</b>	10	<b>NSYAMRD24357TB</b>	10	<b>NSYAMRD243515TB</b>
275	10	<b>NSYAMRD29155TB</b>	10	<b>NSYAMRD29357TB</b>	10	<b>NSYAMRD293515TB</b>
325	10	<b>NSYAMRD34155TB</b>	10	<b>NSYAMRD34357TB</b>	10	<b>NSYAMRD343515TB</b>
Accessories	Pack of 100 screws					
$\varnothing$ 4 x 10 mm	<b>NSYAMFSTB</b>					



Characteristics	Stand-offs	Spacers
	Stand-offs consisting of a $\varnothing$ 4-mm self-tapping thread at one end (for direct screwing into the rivets of the box) and an M4 tapping on the other end, for direct installation of a card with an M4 screw, ref. <b>NSYAMFESTB</b> , or of a spacer.	Spacer for installation on the stand-offs. M4 thread and tapping.
Material	Steel	Steel
Supply	Set of four M4 self-tapping stand-offs	Set of four M4 spacers
Height (mm)	Minor pack.	References
15	1	<b>NSYAMFET154TB</b>
20	1	<b>NSYAMFET204TB</b>
30	1	<b>NSYAMFET304TB</b>
Accessories	Screw for stand-offs and spacers	
	M4 x 10 mm screw for fixing cards on the spacers and stand-offs. ■ The plate always at the right level. ■ A single $\varnothing$ 4-mm screw for fixing any element.	
Supply	Batch of 50 screws	
	Minor pack.	References
	1	<b>NSYAMFESTB</b>

# Insulating industrial boxes

## Common accessories

### Simple cable entries



Characteristics	Simple-1	Simple-2	Simple-3	Simple-4
	Mixed membrane entries for enclosure thickness 20/10° - 32/10° mm.	PVC adjustable cone-shaped entries for enclosure thickness 30/10° - 32/10° mm.	Quick cable entries for enclosure thickness 10/10° - 40/10° mm (5/10° - 20/10° mm for ref. <b>IMT36179</b> ).	PVC adjustable cone-shaped entries for PG tubes or for enclosure thickness 12/10° - 15/10° mm.
Material	SBS	PVC	EPDM plastic	PVC
Colour	RAL 7035 light grey or RAL 9010 white	-	<ul style="list-style-type: none"> <li>■ Grey cable entries: NCS 5500</li> <li>■ Black cable entries: NCS 9000</li> </ul>	-
Cable entry material	Soft membrane		Combined	
Cable glands to be fitted	Not applicable			
Installation possibilities	On cable gland plate or directly on enclosure			
Flexibility of the installation	Low			
Reversibility	Medium			
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP67 according to IEC 60529	IP55 according to IEC 60529
Cable retention	Low	Low	Medium	Low
Cable diameter (mm)	From 20 to 40	From 5 to 87	From 12 to 50	From 16 to 44
Cable Installation time	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+	+	+	+
Cable entries for cables with connectors	No	No	No	No
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter			
External dimensions (mm)	-	From Ø 25 to 98	-	From Ø 25 to 52
Certificates	-	-	-	-
Standard	-	-	-	-
Flame resistance	750°C	-	750°C	-
<b>References*</b>				
See page	258	258	259	259



Characteristics	Simple-5	Synthetic snap in cable gland	Stainless steel cable gland with lamellar insert
	ISO cable gland.	Without thread. Easy assembly and disassembly. Suitable for walls from 0.5 to 4mm thick.	Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For outdoor use, or for aggressive environments.
Material	PA6 Polyamide, neoprene gasket	PA6 Polyamide, neoprene gasket	Stainless steel AISI 304L or AISI 316L, neoprene gasket
Colour	RAL 7035 grey	RAL 7035, RAL 7001, RAL 9005. Other colours on demand	-
Cable entry material	Combined	Non armoured	Non armoured
Installation possibilities	On cable gland plate or directly on enclosure		
Flexibility of the installation	Low		
Reversibility	Medium		
Ingress protection rating	IP68 according to IEC 60529	IP66	IP68
Cable retention	High	High	High
Cable diameter (mm)	From 12 to 40	From 16 to 40	From 12 tp 40
Cable Installation time	Slow	Slow	Slow
Quantity of cables to be fitted for a given surface	+	+	+
Cable entries for cables with connectors	No	No	No
Thread type	-	Metric EN 60423. Other types are available on demand.	Metric EN 60423
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter		
External dimensions (mm)	From Ø 15 to 46	From Ø 22 to 46	From Ø 14 to 43
Certificates	Glow wire resistance: 960°C	UL 94 V-2 (except for the size M40)	UL 94 V-2
Standard	Compliance with VDE, UL and CSA	DIN EN 62444, UL 514B, UL 514B§8.26.7	DIN EN 62444, UL 514
Flame resistance	750 °C	-	-
Temperature range	-	-20°C to + 100°C	-20°C to + 100°C
<b>References*</b>			
See page	258	259	259

### Spare Parts



### Accessories bag

Reference  
**NSYTBPASBS**

\* For details, type the reference in the search engine of [www.schneider-electric.com](http://www.schneider-electric.com).

# Insulating modular boxes

## Introduction

> **PLS boxes:** polyester body with 5 options of covers (in polycarbonate or polyester).



### Modular

The dimensions of the sides, multiples of 9 cm, allow the creation of assemblies.



### Protection

- IP65\*.
- Gasket between body and cover.
- IK09.
- Insulation Class II.



### Easy

Bosses with inserts, at the rear of the body, for fixing plates or various supports.



\* Depending on the model.



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

## This range can be configured according to your needs

### 4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

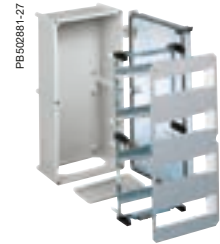
The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

# Insulating modular boxes

## Characteristics



Class II



Characteristics	Complete box	Insulating modular boxes with modular distribution chassis	Modular distribution chassis
	<ul style="list-style-type: none"> <li>■ Insulating boxes that can be coupled by all their side surfaces, allowing the creation of the greatest variety of modular assemblies.</li> <li>■ The product references show the two lateral dimensions in cm.</li> <li>■ 14 sizes of insulating boxes; the sides are multiples of 9 cm.</li> <li>■ Body made from polyester reinforced with fibreglass, moulded by hot compression, 9 sizes.</li> <li>■ 3 types of cover available according to the sizes:               <ul style="list-style-type: none"> <li>□ standard cover, made from transparent polycarbonate with neoprene gasket, 45 mm high,</li> <li>or 95 mm high (final index A) according to the sizes,</li> <li>□ opaque polycarbonate cover (index C), with neoprene gasket, 45 mm high, or 95 mm high (final index A) according to the sizes,</li> <li>□ polyester reinforced with fibreglass cover (index P) with PUR gasket, 45 mm high.</li> </ul> </li> <li>■ Complete box includes body, cover, locking screws and sealing device.</li> <li>■ The bodies (prefix F) and the covers (prefix T) are supplied separately as standard references. The separate covers are supplied without locking screws or sealing accessories.</li> <li>■ The PLS enclosures with transparent cover are also offered in batches; the reference refers to the complete batch.</li> <li>■ Excellent resistance to corrosion; can withstand most chemical agents.</li> <li>■ Full insulation to create class II assemblies.</li> <li>■ Standard lock with slot screws outside the volume of the boxes. Delivered with sealing system.</li> <li>■ External wall-mounting by 4 lugs, to be ordered separately.</li> <li>■ Service temperature: -40 to +80°C.</li> <li>■ Bosses with M6 inserts for fixing the mounting plate.</li> <li>■ Halogen-free and compliant with the RoHS directive.</li> </ul>	<p>PLS boxes, polyester body and PC transparent cover with hinges and wing screws for manual opening.</p> <p>Built-in DLS modular chassis, made up of an insulating protection panel, RAL 7011 colour, 35-mm DIN rails and a 2 x 16 + 5 x 6 mm<sup>2</sup> neutral/earth connection strip.</p> <ul style="list-style-type: none"> <li>■ Opening for cable entry, delivered with lock plate, ref. <b>NSYTL27270G</b>.</li> <li>■ Double-insulating installation.</li> <li>■ Plastic external hinges, allowing opening to 180°.</li> <li>■ Removable 36-mm blanking covers (2 modules): 1 per row in the standard offer.</li> </ul>	<p>Built-in DLS modular chassis, made up of an insulating protection panel, RAL 7011 colour, 35-mm DIN rails and a 2 x 16 + 5 x 6 mm<sup>2</sup> neutral/earth connection strip.</p>
Colour	RAL 7035 grey (opaque bodies and cover)	-	-
Ingress protection rating	IP65	IP43	IP43
Mechanical protection rating	IK09	IK09	IK09
Certifications (see page 574)	<ul style="list-style-type: none"> <li>■ Certification according to standard IEC 62208, guaranteeing IP, IK, resistance to heat and fire (self-extinguishing), insulation to 5000 V, and load of the mounting plate, 100 kg/m<sup>2</sup></li> <li>■ UL508A* CAN/CSA-C22.2 - Types 1, 2, 3, 3R, 3S, 4, 4X, 12 and 13</li> </ul>	-	-
Installation	Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure and protect against the sun radiation.	Indoor	Indoor
Options	-	The boxes can be equipped with a double-bar lock and handle ref. <b>NSYCL27M</b> , or a lock with key ref. <b>NSYCL27L405</b> , by specific demand	-
Supply	-	The modular chassis can be ordered separately	-

\* **NSYPLS**, **NSYPLSP** and **NSYPLSC** followed by suffixes.

# Insulating modular boxes

## Selection guide



Dimensions (mm)			Complete box			Complete boxes in batches	
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover	Transparent cover	Amount per batch
180	270	180	NSYPLS1827G	NSYPLSC1827G	NSYPLSP1827G	NSYPLS1827LG	56
270	270	180	NSYPLS2727G	NSYPLSC2727G	NSYPLSP2727G	NSYPLS2727LG	56
		230	NSYPLS2727AG	NSYPLSC2727AG	-	NSYPLS2727ALG	56
	360	180	NSYPLS2736G	NSYPLSC2736G	NSYPLSP2736G	NSYPLS2736LG	56
		230	NSYPLS2736AG	NSYPLSC2736AG	-	NSYPLS2736ALG	56
	540	180	NSYPLS2754G	NSYPLSC2754G	NSYPLSP2754G	NSYPLS2754LG	28
		230	NSYPLS2754AG	NSYPLSC2754AG	-	NSYPLS2754ALG	28
360	270	180	-	-	-	-	-
		360	NSYPLS3636G	NSYPLSC3636G	NSYPLSP3636G	NSYPLS3636LG	18
	540	180	NSYPLS3654G	NSYPLSC3654G	NSYPLSP3654G	NSYPLS3654LG	28
		230	NSYPLS3654AG	NSYPLSC3654AG	-	NSYPLS3654ALG	28
	720	230	NSYPLS3672AG	NSYPLSC3672AG	-	NSYPLS3672ALG	27
	540	270	180	-	-	-	-
540			NSYPLS5454G	NSYPLSC5454G	NSYPLSP5454G	NSYPLS5454LG	14
720		230	NSYPLS5454AG	NSYPLSC5454AG	-	NSYPLS5454ALG	14
		230	NSYPLS5472AG	NSYPLSC5472AG	-	NSYPLS5472ALG	14

\*Approximate weight.



Dimensions (mm)			Bodies	Low covers: 45 mm		
Height	Width	Depth (body + cover)	135 mm	Transparent	Opaque	Polyester
180	270	180	NSYFPLS1827G	NSYTPLS1827	NSYTPLSC1827G	NSYTPLSP1827G
270	270	180	NSYFPLS2727G	NSYTPLS2727	NSYTPLSC2727G	NSYTPLSP2727G
		230	NSYFPLS2727G	-	-	-
	360	180	NSYFPLS2736G	NSYTPLS2736	NSYTPLSC2736G	NSYTPLSP2736G
		230	NSYFPLS2736G	-	-	-
	540	180	NSYFPLS2754G	NSYTPLS2754	NSYTPLSC2754G	NSYTPLSP2754G
		230	NSYFPLS2754G	-	-	-
360	360	180	NSYFPLS3636G	NSYTPLS3636	NSYTPLSC3636G	NSYTPLSP3636G
		540	NSYFPLS3654G	NSYTPLS3654	NSYTPLSC3654G	NSYTPLSP3654G
	720	230	NSYFPLS3654G	-	-	-
		230	NSYFPLS3672G	-	-	-
540	540	180	NSYFPLS5454G	NSYTPLS5454	NSYTPLSC5454G	NSYTPLSP5454G
		230	NSYFPLS5454G	-	-	-
	720	230	NSYFPLS5472G	-	-	-

# Insulating modular boxes

## Selection guide



Insulating modular boxes with modular distribution chassis					Modular distribution chassis
No. of 18 mm modules	No. of rows	Weight* (kg)	References	References	
12	1	1.7	NSYPLS1827DLS12G	NSYDLS12	
24	2	2.5	NSYPLS2727DLS24G	NSYDLS24	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
24	2	2.7	NSYPLS3627DLS24G	NSYDLS242	
36	3	2.8	NSYPLS3627DLS36G	NSYDLS36	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
48	4	3.8	NSYPLS5427DLS48G	NSYDLS48	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	



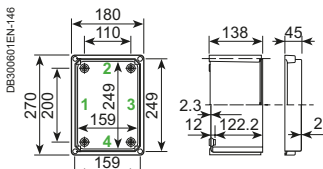
High covers: 95 mm		Metallic mounting plates		Insulating mounting plates	
Transparent	Opaque	Plain	Telequick	Polyester	Bakelite
-	-	NSYPMM1827	NSYPMR1827	NSYPMA1827G	NSYPMB1827
-	-	NSYPMM2727	NSYPMR2727	NSYPMA2727G	NSYPMB2727
NSYTPLS2727A	NSYTPLSC2727AG	-	-	-	-
-	-	NSYPMM2736	NSYPMR2736	NSYPMA2736G	NSYPMB2736
NSYTPLS2736A	NSYTPLSC2736AG	-	-	-	-
-	-	NSYPMM2754	NSYPMR2754	NSYPMA2754G	NSYPMB2754
NSYTPLS2754A	NSYTPLSC2754AG	-	-	-	-
-	-	NSYPMM3636	-	NSYPMA3636G	NSYPMB3636
-	-	NSYPMM3654	NSYPMR3654	NSYPMA3654G	NSYPMB3654
NSYTPLS3654A	NSYTPLSC3654AG	-	-	-	-
NSYTPLS3672A	NSYTPLSC3672AG	NSYPMM3672	NSYPMR3672	NSYPMA3672G	NSYPMB3672
-	-	NSYPMM5454	NSYPMR5454	NSYPMA5454G	NSYPMB5454
NSYTPLS5454A	NSYTPLSC5454AG	-	-	-	-
NSYTPLS5472A	NSYTPLSC5472AG	NSYPMM5472	NSYPMR5472	NSYPMA5472G	NSYPMB5472

# Insulating modular boxes

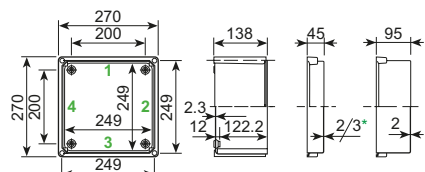
## Dimensions

The surfaces are numbered to enable identification of the surfaces to be drilled in the customised offer.

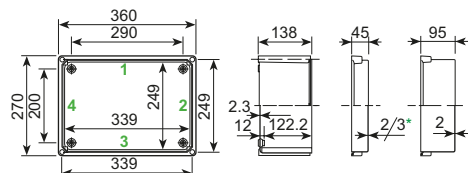
### NSYPLS...1827G



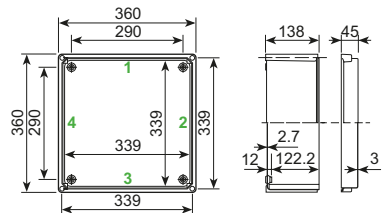
### NSYPLS...2727G



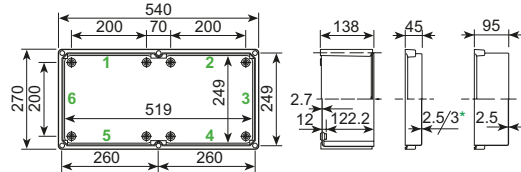
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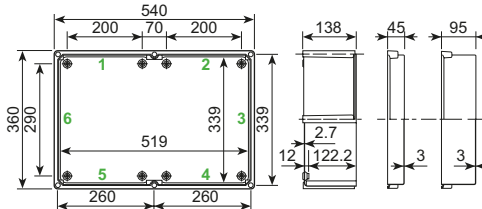
### NSYPLS...3636G



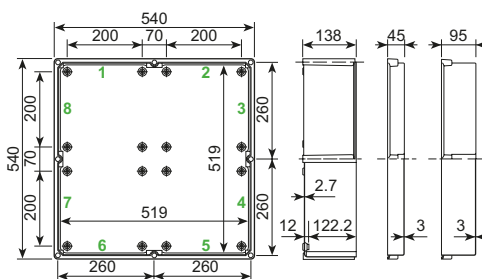
### NSYPLS...2754G



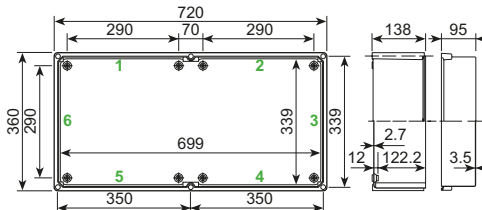
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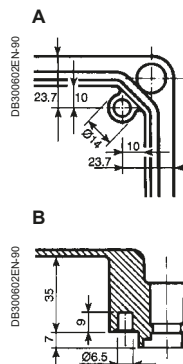
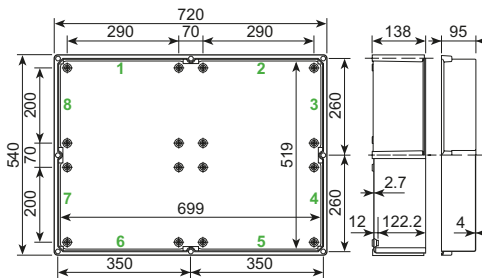
### NSYPLS...5454G



### NSYPLS...3672G



### NSYPLS...5472G

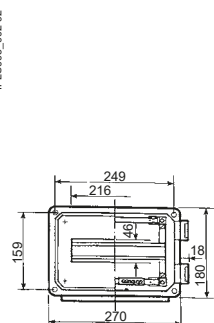


A - B: Internal view of the corners of the polyester covers with bosses for inserts ref. NSYTEX5 for M5 screws.

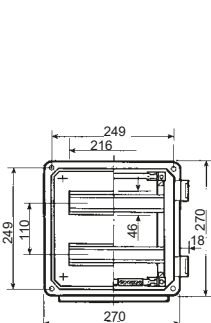
\* Thickness of 30/10<sup>o</sup> mm for the polyester cover.

## Insulating modular boxes with modular distribution chassis

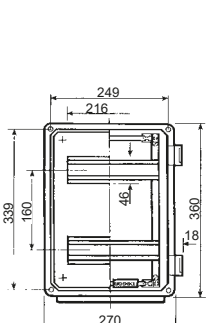
### NSYPLS1827DLS12G



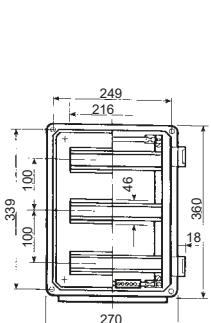
### NSYPLS2727DLS24G



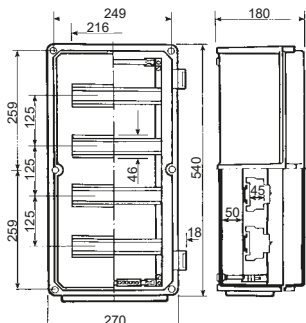
### NSYPLS3627DLS24G



### NSYPLS3627DLS36G



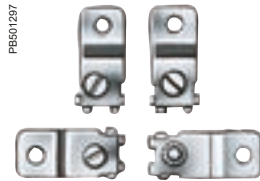
### NSYPLS5427DLS48G





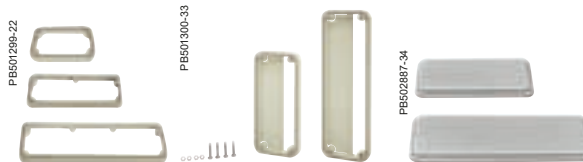
# Insulating modular boxes Accessories

## Fixing



Characteristics	Wall-fixing lugs		Post-fixing device		Plastic carrying handle
Material	Passivated zinc-coated steel	Stainless-steel	-		Plastic
Ingress protection rating	-		-		IP43
Supply	Set of 4 lugs and fixings		Contains all the elements required for mounting on a post		-
	<b>References</b>		<b>For installation on a surface with dimensions (mm)</b>	<b>References</b>	<b>Reference</b>
	NSYPF27N	NSYPF27X	270 360 540	NSYFSP27270 NSYFSP27360 NSYFSP27540	NSYATM27

## Coupling



Characteristics	Coupling frames (3)			Side plates (3)		Box coupling unit piece	
	Use the boxes dimensional drawings to identify what coupling frame you need. Consider the sides and surfaces you will join.			-		For coupling 2, 3 or 4 boxes, with optional wall-mounting.	
Ingress protection rating	<ul style="list-style-type: none"> <li>■ Frame with full opening: IP65 between enclosures</li> <li>■ Frame with partial opening: IP44 between enclosures</li> </ul>			IP65		-	
Supply	-			-		To be ordered in multiples of 25	
	<b>References</b>					<b>For coupling (2)</b>	
	<b>For surfaces (mm)</b>	<b>Opening (mm)</b>	<b>Full-opening frame</b>	<b>Partial-opening frame</b>	<b>Side plates (mm)</b>	<b>2 boxes</b>	<b>3 or 4 boxes</b>
	180	110	NSYUM27180	-	-	-	-
	270	200	NSYUM27270	NSYUCC270 (1)	200	NSYTL27270G	-
	360	290	NSYUM27360	NSYUCC360 (1)	290	NSYTL27360G	-
	-	-	-	-	-	NSYPS2C27	NSYPS4C27

(1) References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

(2) M6 x 8 screw with cylindrical head.

(3) Not UL certified

# Insulating modular boxes

## Accessories

### Locking



Characteristics		Closing for PLS boxes	Closing locks	Sealing and opening
Options		-	Option of installing a side lock, on the opposite side to where the hinges are installed	-
Ingress protection rating		-	IP43	-
Supply		Set of 4, 6 or 8 screws. The references also include 4 M6 screws for fixing mounting plates and 2 steel sealing accessories	-	-
Name	Tool	References		
Set of 4 slotted screws (1)	Flat-blade screwdriver	NSYTC274	-	-
Set of 6 slotted screws (1)	Flat-blade screwdriver	NSYTC276	-	-
Set of 8 slotted screws (1)	Flat-blade screwdriver	NSYTC278	-	-
Set of 4 wing screws (2)	Manual	NSYTCM274	-	-
Set of 6 wing screws (2)	Manual	NSYTCM276	-	-
Set of 8 wing screws (2)	Manual	NSYTCM278	-	-
Set of 4 triangular screws	◦ NSYLT27	NSYTC274	-	-
Set of 6 triangular screws		NSYTC276	-	-
Set of 8 triangular screws		NSYTC278	-	-
Double-bar side lock and handle	NSYDBP	-	NSYCL27M	-
Side lock with key 405		-	NSYCL27L405	-
Plastic-coated sealing triangle (3)	-	-	-	NSYPPS27
Triangular key for PLS	-	-	-	NSYLT27

(1) Included in the standard references of boxes **NSYPLS●●●**.

(2) Included in the standard references of modular distribution boxes **NSYPLS●●●DLS●●●**.

(3) References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

### Other

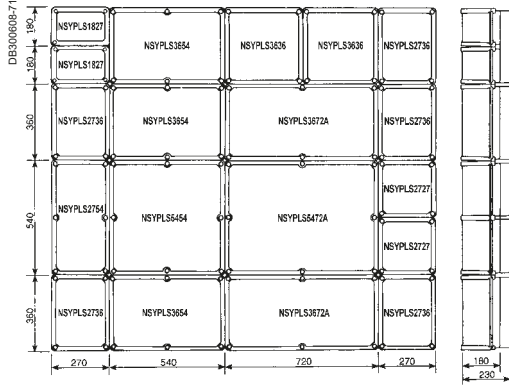


Characteristics	Hinges (1)		Insulators for busbar	
	<ul style="list-style-type: none"> <li>■ External hinges.</li> <li>■ To open the door to 180°.</li> </ul>	<ul style="list-style-type: none"> <li>■ Internal hinges.</li> <li>■ To open the door to 180°.</li> </ul>	<ul style="list-style-type: none"> <li>■ For 4 bars of 15 or 20 mm.</li> <li>■ Utilisation on the 270 mm side.</li> </ul>	<ul style="list-style-type: none"> <li>■ For 1 bar of 15, 20 or 30 mm.</li> </ul>
Material	Plastic	Brass	-	-
Supply	Set of 2 hinges	Set of 2 hinges	-	References by unit. Order by multiples of 5 units (5, 10, 15, etc.)
References	NSYBE27G (1)	NSYBL27	NSYAE25	NSYAS25

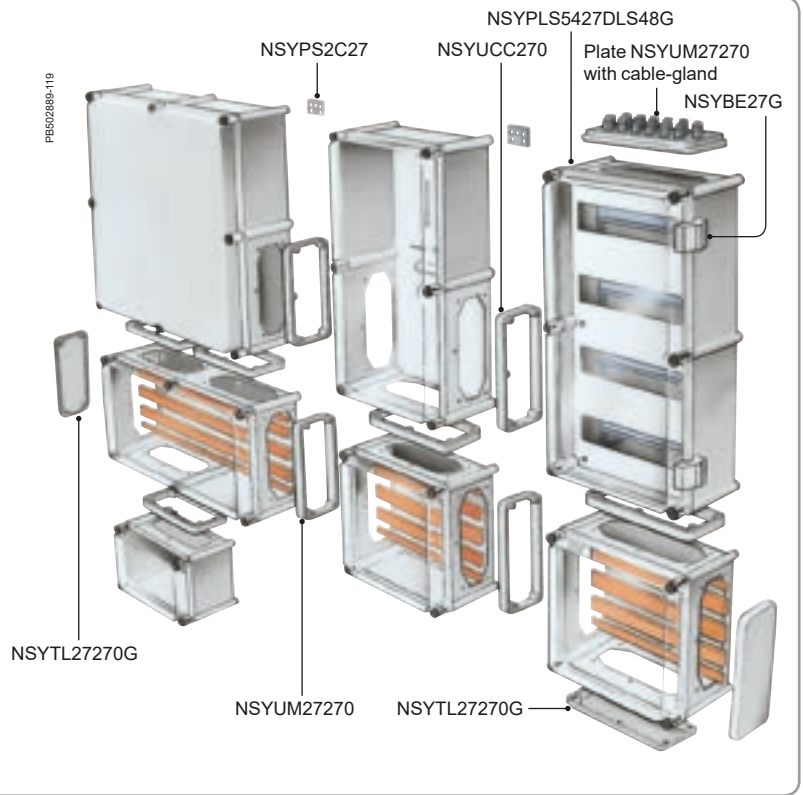
(1) IP degree not guaranteed as it depends on customer process.



## Examples of assembly



All the boxes can be joined by their lateral surfaces, using the coupling frames **NSYUM...** or **NSYUCC...**, and the joining and fixing pieces **NSYPS2C27** and **NSYPS4C27**.



# Insulating wall-mounting enclosures

# Insulating wall-mounting enclosures

## Contents



### Thalassa PLM Insulating wall-mounting enclosures



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### Associated applicative offers

#### PHD Polyester Heavy Duty enclosures



372

# Insulating wall-mounting enclosures

## Introduction

### > Monobloc wall-mounting enclosure

- made from polyester reinforced with fibreglass, moulded by hot compression.
- Degree of protection IP66,
- Impact resistance IK10 for the plain doors and surfaces and IK08 for the glazed doors of the polyester versions,
- UL certification and NEMA classification 4x and 13 for the polyester wall-mounting enclosures,
- Total insulation to produce class II units,
- Complies with RoHS and REACH Directives

P1237102-32



#### Service life

High resistance to corrosion in harsh environments, maintaining its mechanical properties and insulation.

PB501327SE-40



#### Easy

- Door easily reversible by turning it over.
- Opening to 120° or 180°.
- Easy machining with no corrosion.
- Lightness.
- Polyamide hinge pin, easily removable and captive.

PB001325SE-05



#### Smart

- Notches for easy fixing of DIN rails.
- Grid pattern on the rear of the door for marking the machining operations.

PB001325SE



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

### This range can be configured according to your needs

#### 4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

# Insulating wall-mounting enclosures

## Characteristics



Characteristics	ABS/PC wall-mounting enclosures	Polyester wall-mounting enclosures									
	<ul style="list-style-type: none"> <li>Monobloc wall-mounting enclosure.</li> <li>Version with transparent polycarbonate door.</li> <li>Closes with a 3-mm double-bar lock.</li> <li>Door opening: 180°.</li> </ul>	<ul style="list-style-type: none"> <li>Monobloc wall-mounting enclosure.</li> <li>Version with transparent tempered-glass door.</li> <li>Closes with two 3-mm double-bar locks.</li> <li>Door opening angle: 120°.</li> <li>Grid pattern with a pitch of 50 mm on the back of the door.</li> </ul>	<ul style="list-style-type: none"> <li>Monobloc wall-mounting enclosure.</li> <li>Version with transparent tempered-glass door.</li> <li>Locking device outside the sealed area, guaranteeing the tightness of IP66 over time.</li> <li>Locking system:                             <ul style="list-style-type: none"> <li>enclosure height ≤ 847 mm: 2 locks with double-bar insert or 1 handle with key lock and 3-point closure,</li> <li>enclosure height 1056 mm: 1 lock with double-bar insert and 4-point closure.</li> </ul> </li> <li>Door opening angle: 180°.</li> <li>Bosses for accessory-fixing inserts: M6 inside the enclosure, M5 in the door for enclosure heights of 430 and 530 mm, M6 in the door for enclosure heights ≥ 647 mm.</li> <li>Grid pattern with a pitch of 25 mm on the back of the door.</li> </ul>								
Material	ABS/PC	Polyester reinforced with fibreglass, moulded by hot compression									
Temperature range - Gasket	-40°C to +80°C										
Colour	RAL 7035 grey										
Ingress protection rating	IP66 according to IEC 60529										
Mechanical protection rating	<ul style="list-style-type: none"> <li>IK10 plain door</li> <li>IK08 glazed door</li> </ul>										
Certifications (see page 574)	<ul style="list-style-type: none"> <li>IEC 62208</li> <li>Bureau Veritas Marine</li> </ul>	<ul style="list-style-type: none"> <li>IEC 62208</li> <li>Marine</li> <li>UL 508A - Nema type: 1, 2, 3, 3R, 3S, 4, 4X, 5, 12 and 13</li> </ul>	<ul style="list-style-type: none"> <li>IEC 62208</li> <li>Marine</li> </ul>								
Installation	<ul style="list-style-type: none"> <li>Direct fixing of symmetrical rails ref. <b>NSYCS200PLM</b> with plastic nuts ref. <b>NSYTCSPML</b>, to be installed in the notches on the rear of the body, with a pitch of 25 mm</li> <li>Fixing of installation plates on the studs at the rear of the enclosure</li> </ul>	Fixing of rear accessories on 4 M8 x 18 studs	<ul style="list-style-type: none"> <li>Fixing of rear accessories on 4 M8 studs, included in the standard supply</li> <li>Direct fixing of symmetrical rails ref. <b>NSYCS●●●PLM</b>, with plastic nuts, ref. <b>NSYTCSPML</b>, to be installed in the notches on the rear of the body, with a pitch of 25 mm</li> </ul>								
<b>External dimensions (mm)</b>	<b>References of wall-mounting enclosures with door</b>										
<b>Height</b>	<b>Width</b>	<b>Depth</b>	<b>Plain (3)</b>	<b>Transparent (4)</b>	<b>Plain (3)</b>	<b>Transparent (4)</b>	<b>Plain (3)</b>	<b>Transparent (4)</b>	<b>Plain (1)</b>	<b>Transparent (1) (4)</b>	
308	255	160	-	-	NSYPLM3025G	NSYPLM3025TG	-	-	-	-	
310	215	160	NSYPLM32G	NSYPLM32TG	-	-	-	-	-	-	
430	330	200	-	-	-	-	NSYPLM43G	NSYPLM43TG	NSYPLM43VG	NSYPLM43TVG	
530	430	200	-	-	-	-	NSYPLM54G	NSYPLM54TG	NSYPLM54VG	NSYPLM54TVG	
647	436	250	-	-	-	-	NSYPLM64G	NSYPLM64TG	NSYPLM64VG	NSYPLM64TVG	
747	536	300	-	-	-	-	NSYPLM75G	NSYPLM75TG	NSYPLM75VG	NSYPLM75TVG	
847	636	300	-	-	-	-	NSYPLM86G	NSYPLM86TG	NSYPLM86VG	NSYPLM86TVG	
1056	852	350	-	-	-	-	NSYPLM108G (2)	NSYPLM108TG (2)	-	-	

(1) Wall-mounting enclosure with handle and lock with 3-point closure and key 1242 E delivered as standard.  
 (2) Wall-mounting enclosure with standard 5 mm double-bar lock and lock with 4-point closure.  
 (3) These enclosures are also available equipped with metallic or insulating mounting plates.  
 (4) Must be protected against sun radiation.

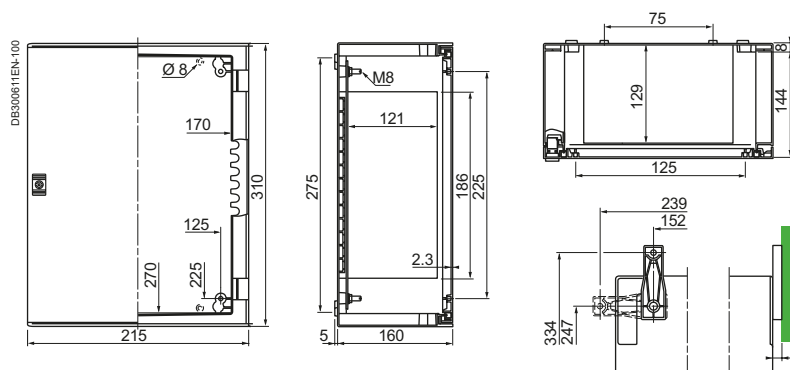
External dimensions (mm)			Wall-mounting enclosures with plain door and mounting plate (6)							
Height	Width	Depth	Plain	Bakelite	Plain	Bakelite	Plain	Bakelite		
308	255	160	-	-	NSYPLM3025PG	NSYPLM3025BG	-	-		
310	215	160	NSYPLM32PG	NSYPLM32BG	-	-	-	-		
430	330	200	-	-	-	-	NSYPLM43PG	NSYPLM43BG		
530	430	200	-	-	-	-	NSYPLM54PG	NSYPLM54BG		
647	436	250	-	-	-	-	NSYPLM64PG	NSYPLM64BG		
747	536	300	-	-	-	-	NSYPLM75PG	NSYPLM75BG		
847	636	300	-	-	-	-	NSYPLM86PG	NSYPLM86BG		
1056	852	350	-	-	-	-	-	NSYPLM108BG		

(6) Not mounted.

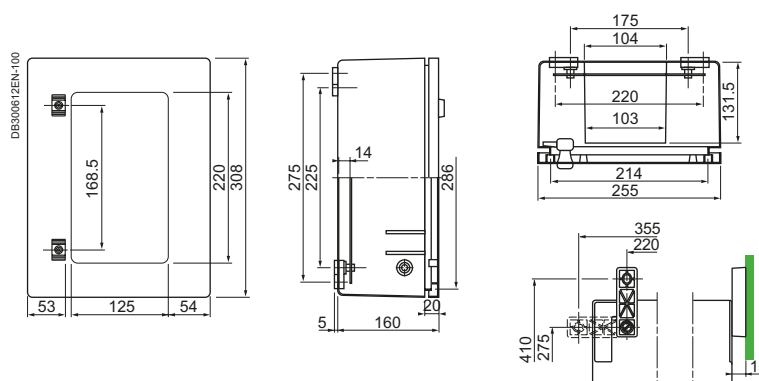
# Insulating wall-mounting enclosures

## Dimensions

### ABS/PC wall-mounting enclosures



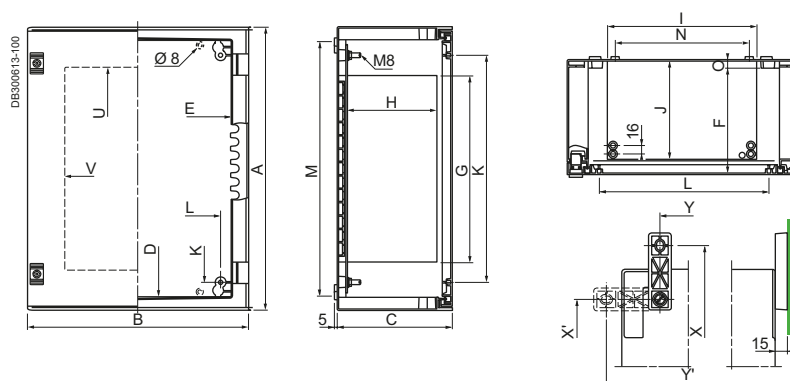
### Polyester wall-mounting enclosures 308 x 255 mm



Glazed door opening (mm)		References
U	V	
273	194	NSYPLM43TG
	151	NSYPLM43TVG
373	294	NSYPLM54TG
	251	NSYPLM54TVG
463	294	NSYPLM64TG
	252	NSYPLM64TVG
563	394	NSYPLM75TG
	352	NSYPLM75TVG
663	494	NSYPLM86TG
	452	NSYPLM86TVG
854	661	NSYPLM108TG

External fixing with lugs (mm)				References
Vertical		Horizontal		
X	Y	X'	Y'	
490	225	355	360	NSYPLM43G
590	325	455	460	NSYPLM54G
690	330	555	465	NSYPLM64G
790	430	655	565	NSYPLM75G
890	530	755	665	NSYPLM86G
1090	750	955	885	NSYPLM108G

### Other polyester wall-mounting enclosures



Dimensions (mm)										Bottom screw and door bosses (mm)		Internal fixing (mm)			References
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
430	330	200	380	260	181	247	150	179	168	325	225	375	150	13	NSYPLM43G
530	430	200	480	360	181	347	150	279	168	425	325	475	250	13	NSYPLM54G
647	436	250	580	360	228	388	192	279	212	525	325	575	250	13	NSYPLM64G
747	536	300	680	460	278	487	241	379	261	625	425	675	350	15	NSYPLM75G
847	636	300	780	560	278	587	241	479	261	725	525	775	450	15	NSYPLM86G
1056	852	350	980	760	327	775	280	680	300	925	725	975	650	15	NSYPLM108G



# Insulating wall-mounting enclosures

## Specific accessories overview

PB502860-88



### Composition accessories

#### Base accessories



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#### Fixing



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#### Fixing



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#### Cable entry



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#### Door



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#### Locking systems



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#### Mounting



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#### Coupling



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#### Diverse



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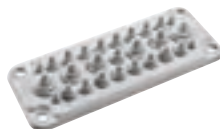
# Insulating wall-mounting enclosures

## Common accessories overview

### Cable management

#### Cable management

PB502492-29



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#### Cable holding

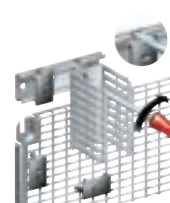
PB500096-40



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#### Cable ducting

PB500059-22



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### Thermal management

#### Heaters

PB502050-29



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#### Ventilation

PB501044-26



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#### Thermal control

PB501162-19



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### Installation accessories

#### Mounting acc.

PB500072-17

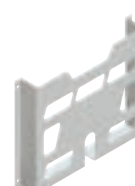


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### Others

#### Document pocket

PB502059-18



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# Insulating wall-mounting enclosures

## Specific accessories

### Base accessories



Characteristics				ZM plinth for PLM enclosure						
				Designed to support and raise enclosures <b>NSYPLM75G</b> , <b>NSYPLM86G</b> and <b>NSYPLM108G</b> . <ul style="list-style-type: none"> <li>■ Plinth height of 200 mm; stackable to obtain a 400-mm plinth.</li> <li>■ Four floor-attachment points; the symmetry of the parts prevents incorrect assembly. The frontal parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation. In stacked position, the bottom plinth can be partially buried.</li> </ul> It is provided with one transverse reinforcement rail, adjustable to adapt to the position of the cables. The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths.						
Material				Polyester reinforced with fibreglass, moulded by hot compression						
Ingress protection rating				IP44						
Mechanical protection rating				IK10						
For enclosure				Cabling area		Plinth				
Height (mm)	Width (mm)	Depth (mm)	References	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Depth (mm)	References	
747	536	300	<b>NSYPLM75G</b>	256	252	200	456	302	<b>NSYZM253G</b>	
847	636	300	<b>NSYPLM86G</b>	356	252	200	556	302	<b>NSYZM263G</b>	
1056	852	350	<b>NSYPLM108G</b>	572	302	200	772	352	<b>NSYZM283G</b>	



Accessories	Cable supporting cross-rail	Kit for IP54	Feet for partially buried installation												
	The lateral sides of the plinths are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables. The reference of the cross-rail includes all the elements required for assembly.	Makes it possible to obtain IP54 for the plinth and the plinth-enclosure coupling.	Allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm. Possibility of horizontal adjustment of the plinth. The reference includes a kit made up of four feet and fixings.												
	<table border="1"> <thead> <tr> <th>For plinth</th> <th>Cross-rail references</th> </tr> </thead> <tbody> <tr> <td>NSYZM253G</td> <td><b>NSYAC280</b></td> </tr> <tr> <td>NSYZM263G</td> <td><b>NSYAC360</b></td> </tr> <tr> <td>NSYZM283G</td> <td><b>NSYAC600</b></td> </tr> </tbody> </table>	For plinth	Cross-rail references	NSYZM253G	<b>NSYAC280</b>	NSYZM263G	<b>NSYAC360</b>	NSYZM283G	<b>NSYAC600</b>	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td><b>NSYAEPM</b></td> </tr> </tbody> </table>	Reference	<b>NSYAEPM</b>	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td><b>NSYAEBFZ</b></td> </tr> </tbody> </table>	Reference	<b>NSYAEBFZ</b>
For plinth	Cross-rail references														
NSYZM253G	<b>NSYAC280</b>														
NSYZM263G	<b>NSYAC360</b>														
NSYZM283G	<b>NSYAC600</b>														
Reference															
<b>NSYAEPM</b>															
Reference															
<b>NSYAEBFZ</b>															

# Insulating wall-mounting enclosures

## Specific accessories

### Fixing



Characteristics	Floor-mounting pillar	Wall-fixing lugs	Post-fixing device	Blanking plates		
	To protect cables entering the enclosure in outdoor installations. Cable entry section: 165 x 100 mm. For enclosures ref. <b>NSYPLM54G, NSYPLM54TG, NSYPLM64G and NSYPLM64TG.</b>	Set of 4 wall-fixing lugs. Mounted directly on the enclosure, either in horizontal position or in vertical position.	For outdoor installations on a post with a maximum circumference of 675 mm, Ø 215 mm.	They are positioned on the rear surface of the enclosures to block the openings in the corners in order to improve their appearance or prevent the entry of unwanted elements in the ventilation shaft. Supplied as standard for enclosure, ref. <b>NSYPLM108G.</b>		
Material	Polyester reinforced with fibreglass	Polyamide loaded with fibreglass	Galvanised steel	Thermoplastic		
Colour	RAL 7035 grey	RAL 7035	-	RAL 7035		
Maximum load	-	<ul style="list-style-type: none"> <li>■ On PLM32</li> <li>□ vertical or horizontal: 10 kg</li> <li>■ Other PLM models</li> <li>□ vertical position: 200 kg</li> <li>□ horizontal position: 100 kg</li> </ul>	100 kg	-		
Supply	Delivered with steel frame for secure fixing to the floor	Delivered with fixings	Supply of the rail, the strips and the fixings	-		
	<b>Reference</b>	<b>References</b>	<b>For wall-mounting enclosure</b>	<b>References</b>	<b>For wall-mounting enclosure</b>	<b>References</b>
	<b>NSYSFSPLMG</b>	<b>NSYFFPLMG</b> <b>NSYFFPLM32G (1)</b>	<b>NSYPLM43G</b> <b>NSYPLM54G &amp; NSYPLM64G</b> <b>NSYPLM75G</b> <b>NSYPLM86G</b>	<b>NSYSFP300</b> <b>NSYSFP400</b> <b>NSYSFP500</b> <b>NSYSFP600</b>	<b>NSYPLM32G</b> <b>NSYPLM43G &amp; NSYPLM54G</b> <b>NSYPLM64G, 75G and 86G</b>	<b>NSYCEPLMAG</b> <b>NSYCEPLMBG</b> <b>NSYCEPLMCG</b>

(1) Exclusive for enclosures ref. **NSYPLM32G** and **NSYPLM32TG.**

# Insulating wall-mounting enclosures

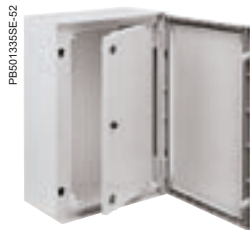
## Specific accessories

### Fixing

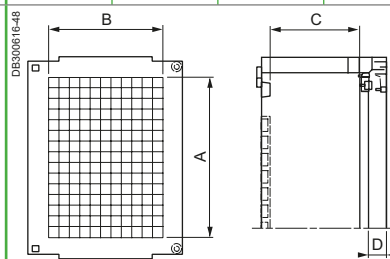


Characteristics	Support bracket for enclosure with anti-tilt kit and reinforcement
	The support bracket is used when the enclosure cannot be hung from a wall or a post. Suitable for outdoor use. Maximum enclosure dimensions: 1000 x 800 x 300 mm. Floor attachment by standard M12 fastenings.
Material	Steel
Finish	Painted
Colour	RAL 7035 grey
Maximum load	120 kg
<b>Height (mm)</b>	<b>References</b>
1400	<b>NSYCOCNS1400</b>
1800	<b>NSYCOCNS1800</b>

### Door



Characteristics		Internal door						
		<ul style="list-style-type: none"> <li>■ Reversible door.</li> <li>■ Grid pattern with a pitch of 25 mm for easier marking out before drilling.</li> <li>■ Closes with 2 double-bar locks.</li> <li>■ Door handle.</li> <li>■ Steel internal door, without grid pattern and locking by a screw, for enclosures ref. <b>NSYPLM3025G</b>.</li> <li>■ Incompatible with the modular distribution chassis.</li> </ul>						
Material		Polyester reinforced with fibreglass, self-extinguishing						
Colour		RAL 7035 grey						
Supply		Delivered with fixings and brass inserts						
For wall-mounting enclosure (mm)		Dimensions (mm)					References	
Height	Width	A	B	C	D			
					Plain door	Transp. door		
308	255	248	165	62	76	71	<b>NSYPA3025PLMG</b>	
430	330	315	205	152	26	21	<b>NSYPAP43G</b>	
530	430	415	305	152	26	21	<b>NSYPAP54G</b>	
645	435	515	305	194	32	27	<b>NSYPAP64G</b>	
745	535	615	405	244	32	27	<b>NSYPAP75G</b>	
845	635	715	505	244	32	27	<b>NSYPAP86G</b>	
1055	850	850	650	269	37	32	<b>NSYPAP108G</b>	



# Insulating wall-mounting enclosures

## Specific accessories

### Locking system



#### Characteristics

#### Locks and inserts for enclosures NSYPLM32G to NSYPLM86G

- The ABS/PC 310 x 215 mm enclosure is supplied with a lock with a double-bar insert as standard.
- The 308 x 255 mm enclosure is supplied with two locks with a double-bar insert as standard.
- The polyester enclosures from 430 to 847 mm high are delivered as standard with:
  - 2 locks with double-bar insert, ref. **NSYCDBPLM**,
  - or a 3-point closure with handle and lock with key 1242 E (enclosures **NSYPLM●●VG**).
- Double-bar insert ref. **NSYTDBCRN**, is placed in a rectangular escutcheon.
- A plastic key, ref. **NSYDBP**, enabling the opening of the double-bar insert, is included in the standard supply. This key can be fixed to the double-bar system to remain on the enclosure and be used as a handle.

#### Options

PBE01337-44

NSYTC6CRN  
NSYTC7CRN  
NSYTC8CRN

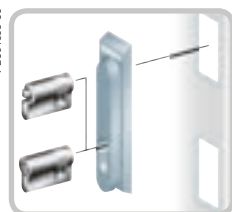
NSYTT6CRN  
NSYTT8CRN

NSYTL405PLM  
NSYTL220PLM



NSYTHL1242EPLM  
NSYTHL405PLM  
NSYTHL421PLM  
NSYTHL455PLM  
NSYTHL610PLM  
NSYTHL2331APLM  
NSYTHL2433APLM  
NSYTHL3113APLM  
NSYTHL3131APLM  
NSYTHPLM

PBE01338-30



#### Options to transform the locks with double-bar inserts NSYPLM32G to NSYPLM86G

Changing the shape inserts for locks with keys according to the following table.

Replacement for locking handle with cylindrical barrel, delivered with all the parts required to change the lock.

Name	References	Type of barrel	References
6 mm male square	<b>NSYTC6CRN</b>	Key 1242 E	<b>NSYTHL1242EPLM</b>
7 mm male square	<b>NSYTC7CRN</b>	Key 405	<b>NSYTHL405PLM</b>
8 mm male square	<b>NSYTC8CRN</b>	Key 421	<b>NSYTHL421PLM</b>
6.5 mm male triangle	<b>NSYTT6CRN</b>	Key 455	<b>NSYTHL455PLM</b>
-	-	Key 610	<b>NSYTHL610PLM</b>
8 mm male triangle	<b>NSYTT8CRN</b>	Key 2331 A	<b>NSYTHL2331APLM</b>
Lock and key 405	<b>NSYTL405PLM</b>	Key 2433 A	<b>NSYTHL2433APLM</b>
Lock and key 220	<b>NSYTL220PLM</b>	Key 3113 A	<b>NSYTHL3113APLM</b>
Lock TJIS	<b>NSYTJIS</b>	Key 3131A	<b>NSYTHL3131APLM</b>
-	-	Manual	<b>NSYTHPLM</b>

#### Options to transform versions NSYPLM●●V, with retractable handle and 3-point closure

Transformation of the standard insert (barrel for key 1242E, ref. **NSYTL1242EME**) for other shape inserts or barrels according to the following table.

Name	References
5 mm double bar	<b>NSYTD5ME</b>
6 mm male square	<b>NSYTC6ME</b>
7 mm male square	<b>NSYTC7ME</b>
8 mm male square	<b>NSYTC8ME</b>
6.5 mm male triangle	<b>NSYTT6ME</b>
8 mm male triangle	<b>NSYTT8ME</b>
Barrel and key 405	<b>NSYTCL405ME</b>
Reinforced key and barrel	<b>NSYTLRME</b>
JIS key and barrel	<b>NSYTLJISME</b>
Manual	<b>NSYTMME</b>

# Insulating wall-mounting enclosures

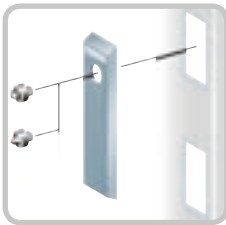
## Specific accessories

### Locking system

#### Locks and inserts for enclosures NSYPLM108/T

- Enclosures delivered as standard with 5 mm double-bar insert.
- Double-bar insert ref. **NSYTDB5PL**, placed in a long rectangular escutcheon, activates a 4-point closure system.

PB501339-30

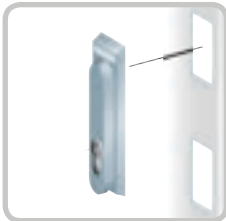


#### Options to transform the insert

The standard insert can be replaced with other shape inserts, according to the following table.

Name	References
Double-bar insert	<b>NSYTDB5PL</b>
6 mm male square	<b>NSYTC6PL</b>
7 mm male square	<b>NSYTC7PL</b>
8 mm male square	<b>NSYTC8PL</b>
6.5 mm male triangle	<b>NSYTT6PL</b>
7 mm male triangle	<b>NSYTT7PL</b>
8 mm male triangle	<b>NSYTT8PL</b>

PB501340-20



#### Options to transform for a retractable handle

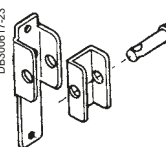
The escutcheon and rosette assembly can be replaced with a lock with retractable handle equipped with inserts or barrels, according to the following table.

Name	References
5 mm double bar	<b>NSYTEDB5PL</b>
6 mm male square	<b>NSYTEC6PL</b>
7 mm male square	<b>NSYTEC7PL</b>
8 mm male square	<b>NSYTEC8PL</b>
6.5 mm male triangle	<b>NSYTET6PL</b>
7 mm male triangle	<b>NSYTET7PL</b>
8 mm male triangle	<b>NSYTET8PL</b>
Lock key 1242 E	<b>NSYTEL1242EPL</b>
Barrel and key 405	<b>NSYTEL405PL</b>
Reinforced key and barrel	<b>NSYTERPL</b>
JIS key and barrel	<b>NSYTELJISPL</b>
FAC key and barrel	<b>NSYTELFACPL</b>
Manual	<b>NSYTEMPL</b>

PB502869-23



DB300817-23



DB300818-11



#### Padlocking accessories

Padlocking system positioned around the rectangular escutcheon of the enclosures with a height of  $\leq 847$  mm to block access to the lock; for a  $\varnothing 9$  mm padlock.

Padlocking system positioned around the long rectangular escutcheon of the enclosures ref. **NSYPLM108G/TG**, to block access to the lock; for  $\varnothing 9$  mm padlock.

Padlocking system to block access to the retractable handle, for the versions **NSYPLM●●V** or optionally for enclosures ref. **NSYPLM108G/TG**, for a  $\varnothing 9$  mm padlock.

#### References

<b>NSYKPLM</b>	<b>NSYBCPL</b>	<b>NSYBCME</b>
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# Insulating wall-mounting enclosures

## Specific accessories

### Mounting accessories



Characteristics		Step slides			Plastic nuts for rail fixing		35 mm symmetrical DIN rails	
		Kit allowing depth adjustment with a pitch of 12.5 mm, and the fixings required for the installation. Incompatible with the modular distribution chassis.			They slide directly into the notches, with a pitch of 25 mm, which are located on the rear of the enclosures, except enclosure ref. <b>NSYPLM3025G/TG</b> . They allow direct fixing of symmetrical DIN rails by self-tapping screws. Option of raising the rails with an M6 spacer using a plastic nut containing an M6 nut.		They are fixed to the rear of the enclosure without uprights, with a pitch of 25 mm for the notches on the rear of the enclosure, with the help of direct-fixing nuts ref. <b>NSYTCSPML</b> or <b>NSYTCM6PLM</b> .	
Material		Galvanised steel			-		Galvanised steel	
Supply		4 step slides with brackets			References by unit. Order by multiples of 20 units (20, 40, 60, etc.)		References by unit. Order by multiples of 2 units (2, 4, 6, etc.)	
For wall-mounting enclosure (mm)		Depth adjustment (mm)		References	Name	References	Rail length (mm)	References
Width	Depth	A	B					
-	-	-	-	-	Plastic nut with self-tapping screw	<b>NSYTCSPML</b>	-	-
-	-	-	-	-	Plastic nut containing an M6 metal nut	<b>NSYTCM6PLM</b>	-	-
215	-	-	-	-	-	-	180	<b>NSYCS200PLM</b>
330	-	-	-	-	-	-	280	<b>NSYCS300PLM</b>
430 / 436	-	-	-	-	-	-	380	<b>NSYCS400PLM</b>
536	-	-	-	-	-	-	480	<b>NSYCS500PLM</b>
636	-	-	-	-	-	-	580	<b>NSYCS600PLM</b>
852	-	-	-	-	-	-	795	<b>NSYCS800PLM</b>
-	200	156	94	<b>NSYDPLM200</b>	-	-	-	-
-	250	200	100	<b>NSYDPLM250</b>	-	-	-	-
-	300	250	100	<b>NSYDPLM300</b>	-	-	-	-
-	350	306	106	<b>NSYDPLM350</b>	-	-	-	-



# Insulating wall-mounting enclosures

## Specific accessories

### Coupling and cable-entry



Characteristics			Coupling frame	Cable-gland plates
			Allows the lateral coupling of 2 enclosures.	Dimensions: 435 x 185 mm and 635 x 185 mm.
Material			Polyester frame	Polyester
Colour			RAL 7035 grey	RAL 7035 grey
Ingress protection rating			A built-in sealing gasket guarantees a protection rating of IP66	-
Supply			Delivered with fixings	Delivered with fixings
External dimensions (mm)	Entry	For wall-mounting enclosure	References	
435 x 185 x 15	398 x 148	NSYPLM75G and NSYPLM86G	<b>NSYBUPLMG</b>	<b>NSYTLA4420G</b>
635 x 185 x 15	598 x 148	NSYPLM108G	<b>NSYBU108PLMG</b>	<b>NSYTLA6420G</b>

### Diverse



Characteristics	Fixing inserts			Ventilation louvres*	Water drain plug	Renovation and anti-graffiti paint		
	Expanding inserts for addition to the M6 bosses of the enclosure (the M5 for the door, the M6 for inside the body and the M8 for the external rear part of the enclosure).			They can be positioned inside the wall-mounting enclosures with heights from 430 to 846 mm, allowing ventilation through the channels of the enclosure.	For drainage of condensation water.*** It is placed in the Ø 8.5 mm** housing at the bottom of the enclosure.	Paint kit with 2 components (base 80 % + hardener 20 %), specially designed for polyester enclosures, for their renovation and/or as prevention to allow removal of graffiti.		Solvent for diluting the paint and cleaning the utensils.
Colour	-			-	-	RAL 7035 grey		-
Ingress protection rating	-			-	IP53	-		-
Supply	References by unit. Order by multiples of 8 units (8, 16, 24, etc.). M5 and M6 inserts to be ordered in multiples of 20			References by unit. Order by multiples of 2 units (2, 4, 6, etc.)	References by unit. Order by multiples of 10 units (10, 20, 30, etc.)	The 1 kg reference includes 1 pot with 800 g of base paint and 200 g of hardener (It is enough to paint a surface of around 5 m <sup>2</sup> )	The 5 kg reference includes 1 pot with 4 kg of base paint and 1 kg of hardener (It is enough to paint a surface of around 25 m <sup>2</sup> )	1 kg
	Insert size	For wall-mounting enclosure	References	Reference	Reference	References		
	M5	NSYPLM43G and NSYPLM54G	<b>NSYTEX5</b>	<b>NSYCAG35LP</b>	<b>NSYVEA9</b>	<b>NSYAUPG1G</b>	<b>NSYAUPG5G</b>	<b>NSYAUPGS</b>
	M6	NSYPLM64G to NSYPLM108G	<b>NSYTEX6</b>					
	M8	For the rear of the enclosure	<b>NSYTEX8PLM</b>					

\* Ventilation louvres, airing devices with filters, fans and thermal adjustment accessories, see ClimaSys section.

\*\* 8.2 mm for wall-mounting enclosures NSYPLM32G, NSYPLM32TG, NSYPLM32PG and NSYPLM32BG.

\*\*\* Condensation should be eliminated using ClimaSys solution.

# Insulating wall-mounting enclosures

## Specific accessories

S3D\*

S3X

PLM

\* Minimum depth 200 mm.

### Power distribution accessories



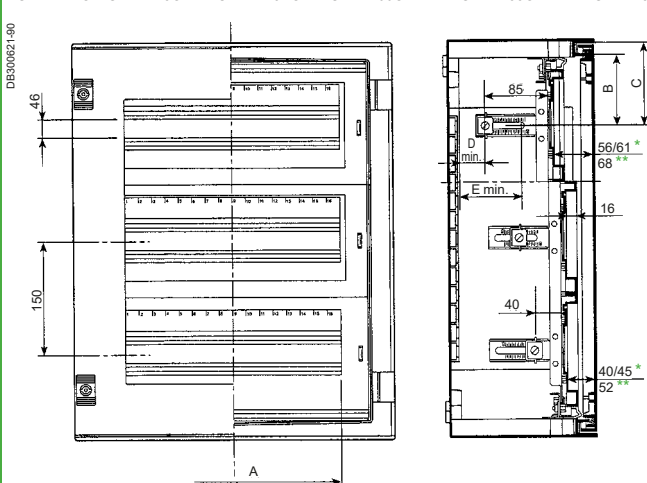
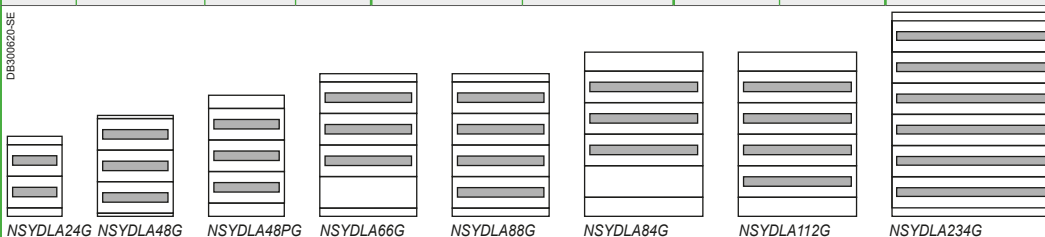
#### Characteristics DLA modular chassis

- Front panels and covers installed in the front part, are not depth adjustable.
- Rigid structure for the installation of modular devices.
- Open front panels with 35 mm DIN rail and plain front panels with mounting plate, according to the model.
- Front plates quick installation with no fixings.
- Rail depth adjustable from 40 to 85 mm.
- System for standard circuit marking.
- Incompatible with the internal doors and the step slides.
- Neutral / earth strip: 2 x 16 mm<sup>2</sup> + 5 x 6 mm<sup>2</sup>.

Material: ■ Front panels and finish covers: polystyrene  
 ■ Rigid structure: galvanised-steel

Colour: Front panels and finish covers: RAL 7035 grey

Dimensions (mm)					Distribution rows				For installation in the enclosures				References
A	B	C	D min.	E min.	No. of useful rows	No. of 18 mm modules per row	No. of 18 mm modules	No. of plates	PLM enclosure		S3D enclosure (depth ≥ 200 mm)		
									References		Height	Width	
216	115	137	38	88	2	12	24	-	NSYPLM43G	NSYPLM43TG	400	300	NSYDLA24G
286	90	112	38	88	3	16	48	-	NSYPLM54G	NSYPLM54TG	500	400	NSYDLA48G
286	140	170	80	130	3	16	48	-	NSYPLM64G	NSYPLM64TG	600	400	NSYDLA48PG
395	115	145	129	179	3	22	66	1	NSYPLM75G	NSYPLM75TG	700	500	NSYDLA66G
395	115	145	129	179	4	22	88	-	NSYPLM75G	NSYPLM75TG	700	500	NSYDLA88G
504	165	195	129	179	3	28	84	1	NSYPLM86G	NSYPLM86TG	800	600	NSYDLA84G
504	165	195	129	179	4	28	112	-	NSYPLM86G	NSYPLM86TG	800	600	NSYDLA112G
704	115	146	170	220	6	39	234	-	NSYPLM108G	NSYPLM108TG	1000	800	NSYDLA234G

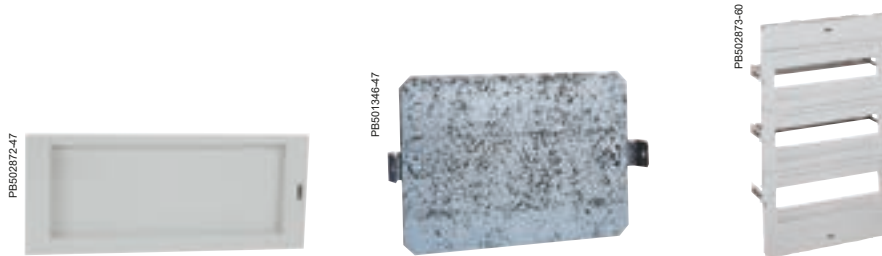


\* Models NSYDLA48PG, 66, 88, 84 and 112.  
 \*\* Model NSYDLA234.

# Insulating wall-mounting enclosures

## Specific accessories

### Power distribution accessories



Characteristics	Plain front panels for DLA chassis		Mounting plate for DLA chassis		Modular distribution chassis
	<ul style="list-style-type: none"> <li>■ Front panel for non-modular device protection, on one row.</li> <li>■ To be ordered in multiples of 2.</li> </ul>		<ul style="list-style-type: none"> <li>■ Mounting plate for mounting non-modular devices, on one row.</li> <li>■ To be ordered in multiples of 2.</li> </ul>		For mounting modular devices on two rows of nine 18-mm modules.
Material	Polystyrene		Galvanised-steel		<ul style="list-style-type: none"> <li>■ Chassis: metal</li> <li>■ Protective plate: polystyrene</li> </ul>
Colour	RAL 7035 grey		-		-
<b>For installing on the chassis</b>	<b>Width (mm)</b>	<b>References</b>	<b>Width (mm)</b>	<b>References</b>	<b>Reference</b>
NSYDLA24G	256	NSYCTL300DLAG	-	-	-
NSYDLA48G and NSYDLA48PG	356	NSYCTL400DLAG	315	NSYPMP400DLA	-
NSYDLA66G and NSYDLA88G	456	NSYCTL500DLAG	415	NSYPMP500DLA	-
NSYDLA84G and NSYDLA112G	555	NSYCTL600DLAG	514	NSYPMP600DLA	-
NSYDLA234G	755	NSYCTL800DLAG	714	NSYPMP800DLA	-
<b>For enclosure</b>					
NSYPLM3025G/TG	-	-	-	-	NSYDLPLM18G

# Insulating floor-standing enclosures

# Insulating floor-standing enclosures

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PE501353SE-20



### Thalassa PLA Polyester floor-standing enclosures

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PE502843-47



### Thalassa PLD Polyester DIN floor-standing enclosure

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PE502846-16



### Associated applicative offers

#### PHD Polyester Heavy Duty enclosures

**372**

# Polyester floor-standing enclosures

## Introduction

➤ The **floor-standing enclosures** are made from **polyester reinforced with fibreglass**, moulded by hot compression. High resistance to corrosion in harsh environments, it maintains its mechanical and insulation properties.



PB502846-47

### Bigger dimensions

The new options with **2000 mm** height and **620 mm** depth have been created to meet industry and infrastructure demands for motor control, power distribution, electronics or telecom applications.

#### PLAT version



PB502860-33

##### Ventilation

Open top part with canopy allowing for ventilation.



PB502891-33

##### Easy

Various bosses for M8 inserts.

#### PLAZ version



PB502892-32

##### Open bottom

Big open bottom to be mounted directly on the floor or on a plinth.



PB502893-32

##### Smart

Plain mounting plate installed on step slides and compulsory adapter plates in all the enclosures with open bottom part.

#### PLAZT version



PB502894-32

##### Easy

Door opening to 180°.



PB502895-32

##### Resistant

Anti-lever security system.



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

### This range can be configured according to your needs

#### 4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

# Polyester floor-standing enclosures

## Characteristics



Class II



Characteristics	PLA version	PLAT version	PLAZ version	PLAzt version
	<b>Completely sealed enclosure</b> <ul style="list-style-type: none"> <li>■ Enclosure obtained by assembling:               <ul style="list-style-type: none"> <li>□ 1 sealed top part,</li> <li>□ 1 sealed bottom part,</li> <li>□ 2 side parts,</li> <li>□ 1 or 2 rear panels (according to width),</li> <li>□ 1 or 2 doors (according to width).</li> </ul> </li> <li>■ Locking system with handle with a 5-mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available.</li> <li>■ Door opening to 120°.</li> </ul>	<b>Enclosure with ventilated canopy</b> <ul style="list-style-type: none"> <li>■ Enclosure obtained by assembling:               <ul style="list-style-type: none"> <li>□ 1 open top part with canopy,</li> <li>□ 1 sealed bottom part,</li> <li>□ 2 side parts,</li> <li>□ 1 or 2 rear panels (according to width),</li> <li>□ 1 or 2 doors (according to width).</li> </ul> </li> <li>■ Locking system with handle with a 5-mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available.</li> <li>■ Door opening to 120°.</li> </ul>	<b>Enclosure with open bottom</b> <ul style="list-style-type: none"> <li>■ Enclosure obtained by assembling:               <ul style="list-style-type: none"> <li>□ 1 sealed top part,</li> <li>□ 1 plinth-type open bottom part,</li> <li>□ 2 side parts,</li> <li>□ 1 or 2 rear panels (according to width),</li> <li>□ 1 or 2 doors (according to width).</li> </ul> </li> <li>■ Locking system with handle with a 5 mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available.</li> <li>■ Door opening to 120°.</li> </ul>	<b>Enclosure with open bottom and ventilated canopy</b> <ul style="list-style-type: none"> <li>■ Enclosure obtained by assembling:               <ul style="list-style-type: none"> <li>□ 1 open top part with canopy,</li> <li>□ 1 plinth-type open bottom part,</li> <li>□ 2 side parts,</li> <li>□ 1 or 2 rear panels (according to width),</li> <li>□ 1 or 2 doors (according to width).</li> </ul> </li> <li>■ Locking system with handle with a 5 mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available.</li> <li>■ Door opening to 180° (except for height: 2000).</li> <li>■ Anti-lever system to prevent forcing of the door.</li> </ul>
Material	Polyester reinforced with fibreglass			
Temperature range	-40°C ... 80°C			
Finish	Moulded by hot compression: the pieces have an excellent finish on both sides and can include numerous bosses for accommodating inserts and mounting or cable management accessories			
Colour	RAL 7035 grey			
Ingress protection rating	IP65 according to IEC 60529	<ul style="list-style-type: none"> <li>■ IP44 according to IEC 60529</li> <li>■ IP54 with 1 or 2 internal grilles, ref. <b>NSYCAG125LPP</b>, to be ordered separately</li> </ul>	IP54 according to IEC 60529	<ul style="list-style-type: none"> <li>■ IP44 according to IEC 60529</li> <li>■ IP54 with 1 or 2 internal grilles, ref. <b>NSYCAG125LPP</b>, to be ordered separately</li> </ul>
Mechanical protection rating	<ul style="list-style-type: none"> <li>■ IK10 plain door - IEC 62262</li> <li>■ IK08 glazed door</li> </ul>			
Insulation	Class II according to IEC 60950-1 if the mounting process follow the included mounting instructions sheet			
Certifications (see page 574)	<ul style="list-style-type: none"> <li>■ UL 508A/CAN-CSA 22               <ul style="list-style-type: none"> <li>□ single door: Nema types 1, 2, 3, 3R, 3S, 5, 12 and 13</li> <li>□ double door: Nema types 1, 2, 12 and 13</li> </ul> </li> <li>■ Bureau Veritas Marine</li> <li>■ IEC 62208</li> </ul>		<ul style="list-style-type: none"> <li>■ IEC 62208</li> </ul>	
Installation	<ul style="list-style-type: none"> <li>■ Indoor use only. For outdoor use, must install a canopy</li> <li>■ Direct fixing to the floor or by means of a plinth with a height of 60 mm, as an option, see page 184</li> <li>■ Possibility of fixing on a semi-embedded plinth, see page 184</li> <li>■ Optional wall-fixing lugs</li> </ul>		<ul style="list-style-type: none"> <li>■ Outdoor or indoor installation</li> <li>■ The open bottom part forms a 60 mm plinth which is fixed to the floor directly or by means of an optional fixing frame, see page 186, or else it is installed on a semi-embedded plinth, see page 186</li> </ul>	
Options	<ul style="list-style-type: none"> <li>■ The versions with glassed door must be protected against the direct sun shine to avoid greenhouse effect</li> </ul>			
	Anti-posting door upon request			

### ➤ PHD - Applicative and customised solutions

See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 372.

# Polyester floor-standing enclosures

## Dimensions

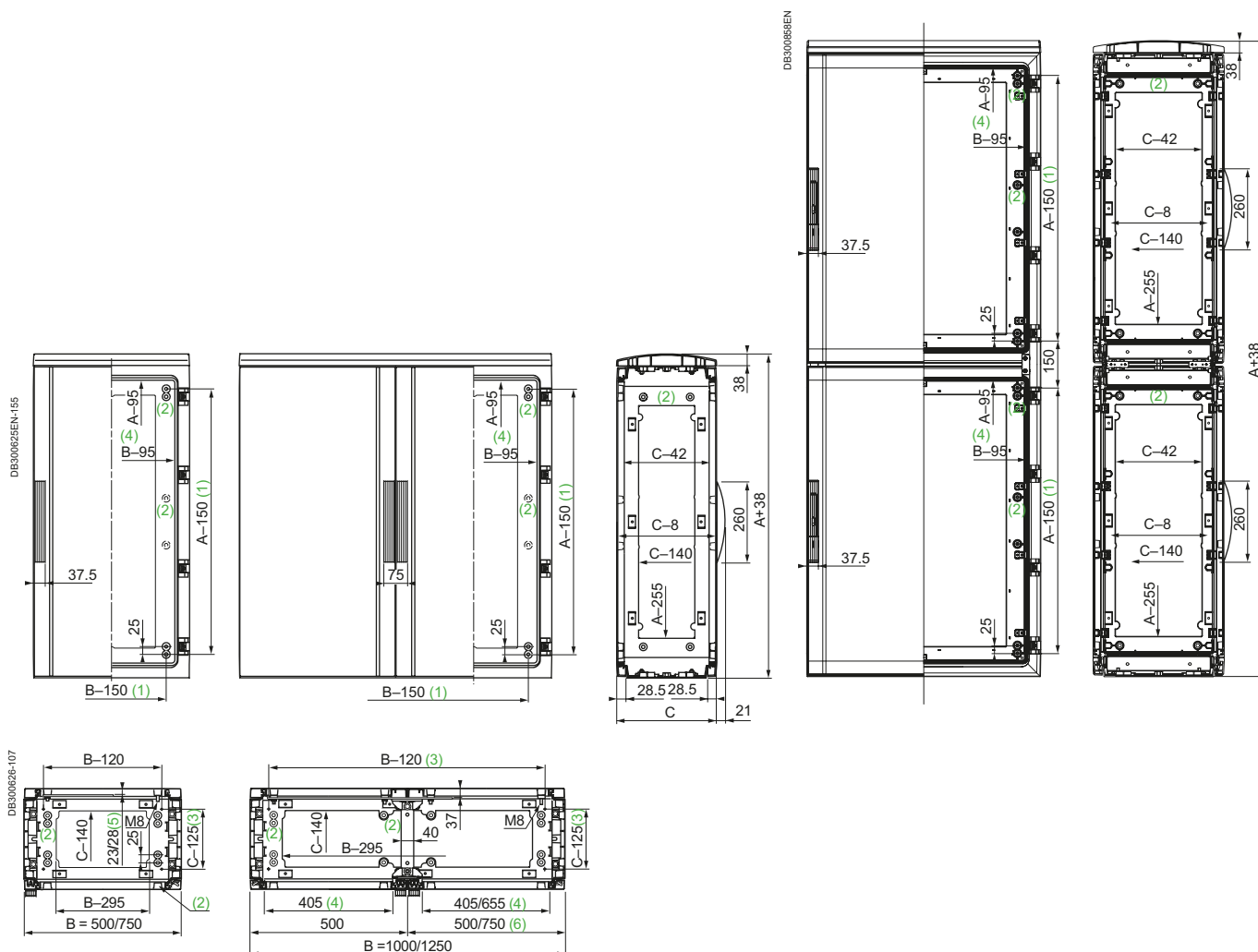
PLA

PLAT

PHD

### Sealed enclosure or enclosure with ventilated canopy

For enclosures without canopy, please just disregard the related 38 mm.





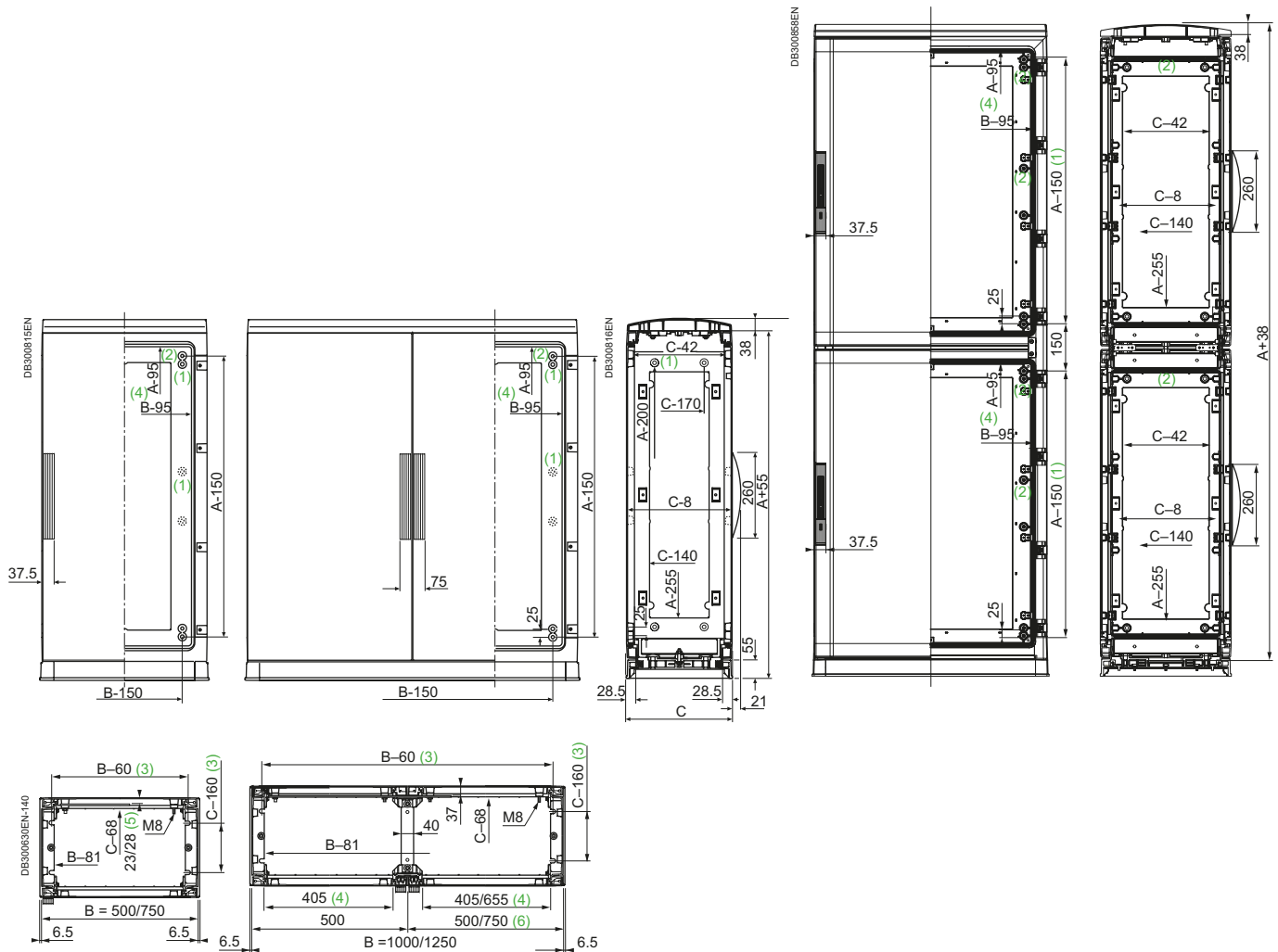
# Polyester floor-standing enclosures

## Dimensions

PLAZ PLAZT PHD

### Enclosures with open bottom - plinth type With or without ventilated canopy

For enclosures without canopy, please just disregard the related 38 mm



(1) 4 bosses with M8 inserts and studs for direct fixing of mounting plates.

(2) Bosses designed to accommodate M8 inserts, ref. **NSYTEX8**. They are placed:

– On the back of the enclosure, from the height of 1000 mm. They allow the fixing of partial mounting plates and assorted equipment.

– On the top and bottom parts of the enclosure. They are used for fixing the step slides, an internal door, 19" chassis, etc.

(3) Dimensions for fixing on the floor or on a plinth.

(4) Entry dimensions, door open.

(5) Dimension of 28 mm for enclosures with heights of more than 1000 mm (height after the installation of the plain mounting plates with reinforcement foldings).

(6) With a width of 1250 mm in standard supply, 500-mm door on the left and 750-mm door on the right.

# Polyester floor-standing enclosures

## Selection guide

### [!] Indoor and Outdoor

For outdoor use, must install a canopy.

### IP65 or IP54

PLA



PLAZ



Dimensions (mm)				Completely sealed enclosures, IP65		Enclosures with open bottom part, IP54	
References of enclosures with door							
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Glazed (1)	Plain	
500	500	320	1	NSYPLA553G	NSYPLA553TG	NSYPLAZ553G	
		420	1	NSYPLA554G	NSYPLA554TG	NSYPLAZ554G	
	750	320	1	NSYPLA573G	NSYPLA573TG	NSYPLAZ573G	
		420	1	NSYPLA574G	NSYPLA574TG	NSYPLAZ574G	
	1000	320	2	NSYPLA5103G	NSYPLA5103TG	NSYPLAZ5103G	
		420	2	NSYPLA5104G	NSYPLA5104TG	NSYPLAZ5104G	
	1250	320	2	NSYPLA5123G	NSYPLA5123TG	NSYPLAZ5123G	
		420	2	NSYPLA5124G	NSYPLA5124TG	NSYPLAZ5124G	
	750	500	320	1	NSYPLA753G	NSYPLA753TG	NSYPLAZ753G
			420	1	NSYPLA754G	NSYPLA754TG	NSYPLAZ754G
750		320	1	NSYPLA773G	NSYPLA773TG	NSYPLAZ773G	
		420	1	NSYPLA774G	NSYPLA774TG	NSYPLAZ774G	
1000		620	1	NSYPLA776G	NSYPLA776TG	NSYPLAZ776G	
		320	2	NSYPLA7103G	NSYPLA7103TG	NSYPLAZ7103G	
1250		420	2	NSYPLA7104G	NSYPLA7104TG	NSYPLAZ7104G	
		320	2	NSYPLA7123G	NSYPLA7123TG	NSYPLAZ7123G	
1000		500	420	2	NSYPLA7124G	NSYPLA7124TG	NSYPLAZ7124G
			320	1	NSYPLA1053G	NSYPLA1053TG	NSYPLAZ1053G
1250	500	420	1	NSYPLA1054G	NSYPLA1054TG	NSYPLAZ1054G	
		320	1	NSYPLA1073G	NSYPLA1073TG	NSYPLAZ1073G	
	750	420	1	NSYPLA1074G	NSYPLA1074TG	NSYPLAZ1074G	
		320	2	NSYPLA10103G	NSYPLA10103TG	NSYPLAZ10103G	
	1000	420	2	NSYPLA10104G	NSYPLA10104TG	NSYPLAZ10104G	
		320	2	NSYPLA10123G	NSYPLA10123TG	NSYPLAZ10123G	
	1250	420	2	NSYPLA10124G	NSYPLA10124TG	NSYPLAZ10124G	
		320	1	NSYPLA1253G	NSYPLA1253TG	NSYPLAZ1253G	
	1500	500	420	1	NSYPLA1254G	NSYPLA1254TG	NSYPLAZ1254G
			320	1	NSYPLA1273G	NSYPLA1273TG	NSYPLAZ1273G
750		420	1	NSYPLA1274G	NSYPLA1274TG	NSYPLAZ1274G	
		620	1	NSYPLA1276G	NSYPLA1276TG	NSYPLAZ1276G	
1000		320	2	NSYPLA12103G	NSYPLA12103TG	NSYPLAZ12103G	
		420	2	NSYPLA12104G	NSYPLA12104TG	NSYPLAZ12104G	
1250		320	2	NSYPLA12123G	NSYPLA12123TG	NSYPLAZ12123G	
		420	2	NSYPLA12124G	NSYPLA12124TG	NSYPLAZ12124G	
2000		750	620	2	NSYPLA12126G	NSYPLA12126TG	NSYPLAZ12126G
			320	1	NSYPLA1553G	NSYPLA1553TG	NSYPLAZ1553G
2000	500	420	1	NSYPLA1554G	NSYPLA1554TG	NSYPLAZ1554G	
		320	1	NSYPLA1573G	NSYPLA1573TG	NSYPLAZ1573G	
	750	420	1	NSYPLA1574G	NSYPLA1574TG	NSYPLAZ1574G	
		620	1	NSYPLA1576G	NSYPLA1576TG	NSYPLAZ1576G	
	1000	320	2	NSYPLA15103G	NSYPLA15103TG	NSYPLAZ15103G	
		420	2	NSYPLA15104G	NSYPLA15104TG	NSYPLAZ15104G	
	1250	320	2	NSYPLA15123G	NSYPLA15123TG	NSYPLAZ15123G	
		420	2	NSYPLA15124G	NSYPLA15124TG	NSYPLAZ15124G	
	2000	750	620	2	NSYPLA15126G	NSYPLA15126TG	NSYPLAZ15126G
			420	2*	NSYPLA2074G	NSYPLA2074TG	NSYPLAZ2074G

\* Two doors in vertical.

(1) recommended to protect against the direct sun radiation

### ➤ PHD - Applicative and customised solutions

See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 372.

# Polyester floor-standing enclosures

## Selection guide

### IP44

**PLAT**


PE502900-21

**PLAZT**


PE502901-19

Dimensions (mm)				Enclosures with ventilated canopy, IP44	Enclosures with open bottom part and ventilated canopy, IP44	
<b>References of enclosures with door</b>						
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Plain	
500	500	320	1	NSYPLAT553G	NSYPLAZT553G	
		420	1	NSYPLAT554G	NSYPLAZT554G	
	750	320	1	NSYPLAT573G	NSYPLAZT573G	
		420	1	NSYPLAT574G	NSYPLAZT574G	
	1000	320	2	NSYPLAT5103G	NSYPLAZT5103G	
		420	2	NSYPLAT5104G	NSYPLAZT5104G	
	1250	320	2	NSYPLAT5123G	NSYPLAZT5123G	
		420	2	NSYPLAT5124G	NSYPLAZT5124G	
750	500	320	1	NSYPLAT753G	NSYPLAZT753G	
		420	1	NSYPLAT754G	NSYPLAZT754G	
	750	320	1	NSYPLAT773G	NSYPLAZT773G	
		420	1	NSYPLAT774G	NSYPLAZT774G	
	620	320	1	NSYPLAT776G	NSYPLAZT776G	
		420	1	NSYPLAT776G	NSYPLAZT776G	
	1000	320	2	NSYPLAT7103G	NSYPLAZT7103G	
		420	2	NSYPLAT7104G	NSYPLAZT7104G	
	1250	320	2	NSYPLAT7123G	NSYPLAZT7123G	
		420	2	NSYPLAT7124G	NSYPLAZT7124G	
	1000	500	320	1	NSYPLAT1053G	NSYPLAZT1053G
			420	1	NSYPLAT1054G	NSYPLAZT1054G
750		320	1	NSYPLAT1073G	NSYPLAZT1073G	
		420	1	NSYPLAT1074G	NSYPLAZT1074G	
1000		320	2	NSYPLAT10103G	NSYPLAZT10103G	
		420	2	NSYPLAT10104G	NSYPLAZT10104G	
1250		320	2	NSYPLAT10123G	NSYPLAZT10123G	
		420	2	NSYPLAT10124G	NSYPLAZT10124G	
1250	500	320	1	NSYPLAT1253G	NSYPLAZT1253G	
		420	1	NSYPLAT1254G	NSYPLAZT1254G	
	750	320	1	NSYPLAT1273G	NSYPLAZT1273G	
		420	1	NSYPLAT1274G	NSYPLAZT1274G	
	620	320	1	NSYPLAT1276G	NSYPLAZT1276G	
		420	1	NSYPLAT1276G	NSYPLAZT1276G	
	1000	320	2	NSYPLAT12103G	NSYPLAZT12103G	
		420	2	NSYPLAT12104G	NSYPLAZT12104G	
	1250	320	2	NSYPLAT12123G	NSYPLAZT12123G	
		420	2	NSYPLAT12124G	NSYPLAZT12124G	
	620	320	2	NSYPLAT12126G	NSYPLAZT12126G	
		420	2	NSYPLAT12126G	NSYPLAZT12126G	
	1500	500	320	1	NSYPLAT1553G	NSYPLAZT1553G
			420	1	NSYPLAT1554G	NSYPLAZT1554G
		750	320	1	NSYPLAT1573G	NSYPLAZT1573G
			420	1	NSYPLAT1574G	NSYPLAZT1574G
620		320	1	NSYPLAT1576G	NSYPLAZT1576G	
		420	1	NSYPLAT1576G	NSYPLAZT1576G	
1000		320	2	NSYPLAT15103G	NSYPLAZT15103G	
		420	2	NSYPLAT15104G	NSYPLAZT15104G	
1250		320	2	NSYPLAT15123G	NSYPLAZT15123G	
		420	2	NSYPLAT15124G	NSYPLAZT15124G	
620		320	2	NSYPLAT15126G	NSYPLAZT15126G	
		420	2	NSYPLAT15126G	NSYPLAZT15126G	
2000	750	420	2*	NSYPLAT2074G	NSYPLAZT2074G	

\* Two doors in vertical.

### ➤ PHD - Applicative and customised solutions

See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 372.

# Polyester floor-standing enclosures

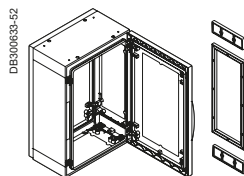
## Specific accessories overview

PB502902-90



### Composition accessories

#### Coupling kits



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#### Fixing



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#### Cable-entry



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#### Base accessories



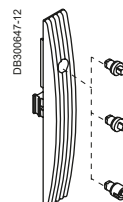
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#### Door



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#### Locking system



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#### Installation accessories



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#### Modular distribution accessories



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#### 19" chassis



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#### Anti-burglary accessory



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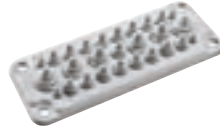
# Polyester floor-standing enclosures

## Common accessories overview

### Cable management

#### Cable management

PB502492-29



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#### Cable holding

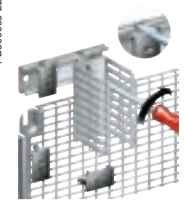
PB500968-40



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#### Cable ducting

PB500898-22



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### Thermal management

#### Heaters

PB502503-29



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#### Ventilation

PB501044-26



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#### Cooling units

PB502614-15



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### Thermal control

PB501162-19



Page 563

### Fixing accessories

#### Rails

PB500177



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### Composition accessories

#### VDI accessories and fixings

PB500189-17



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### Other accessories

#### Document pocket

PB502859-18



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# Polyester floor-standing enclosures

## Specific accessories

### Coupling kits

Characteristics	Horizontal coupling kits*						Vertical coupling kit
	<ul style="list-style-type: none"> <li>■ For coupling 2 enclosures side by side.</li> <li>■ Coupling frame kit: made up of a coupling kit and the fixings required for installation.</li> <li>■ Trim kit: made up of 2 frames for aesthetic fitting of the 2 coupled enclosures.</li> </ul>						<ul style="list-style-type: none"> <li>■ For coupling 2 enclosures on top of one another.</li> <li>■ Kit made up of 3.5 m of adhesive seal and the fixings required for mounting.</li> </ul>
Coupling kit widths	15 mm - Join 2 enclosures mounted on ZA plinths			35 mm - Join 2 enclosures mounted on ZZ or ZH plinths			
Ingress protection rating	IP55 at the coupling point			IP55 at the coupling point			IP55 at the coupling point
<b>For enclosure</b>	<b>Coupling frame kit</b>			<b>Coupling frame kit</b>			
<b>Height (mm)</b>	<b>Depth 320 mm</b>	<b>Depth 420 mm</b>	<b>Depth 620 mm</b>	<b>Depth 320 mm</b>	<b>Depth 420 mm</b>	<b>Depth 620 mm</b>	NSYUVPPLA
500	NSYMUPLA53G	NSYMUPLA54G	-	NSYMUPLA53W	NSYMUPLA54W	-	
750	NSYMUPLA73G	NSYMUPLA74G	NSYMUPLA76G	NSYMUPLA73W	NSYMUPLA74W	NSYMUPLA76W	
1000	NSYMUPLA103G	NSYMUPLA104G	-	NSYMUPLA103W	NSYMUPLA104W	-	
1250	NSYMUPLA123G	NSYMUPLA124G	NSYMUPLA126G	NSYMUPLA123W	NSYMUPLA124W	NSYMUPLA126W	
1500	NSYMUPLA153G	NSYMUPLA154G	NSYMUPLA156G	NSYMUPLA153W	NSYMUPLA154W	NSYMUPLA156W	
2000	-	NSYMUPLA204G	-	-	NSYMUPLA204W	-	
<b>For enclosure</b>	<b>Trim kit</b>						
	<b>Depth 320 mm</b>	<b>Depth 420 mm</b>					
Without canopy	NSYSUPLA3G	NSYSUPLA4G	-	-	-	-	
With canopy	NSYSUPLA3TG	NSYSUPLA4TG	-	-	-	-	

\* Not valid for coupling 2 enclosures using ZZ or ZH type plinth.

# Polyester floor-standing enclosures

## Specific accessories

### Fixing, cable-entry and other accessories

**PLAZ PLAZT**



Characteristics		Canopy	Wall-fixing lugs	Cable-entry plate	
		<ul style="list-style-type: none"> <li>It can be installed in all enclosure models.</li> <li>High resistance to impacts, temperature and bad weather.</li> <li>Increases the height (A) of the enclosure by 38 mm, without modifying its width or depth.</li> </ul>	Drilling positions and marks inside the side panels.	<ul style="list-style-type: none"> <li>Easy drilling in specific customised version.</li> <li>Incompatibility with: adapter plates, step slides, internal door and chassis for modular distribution.</li> </ul>	
Material		Polyester reinforced with fibreglass	Carbon steel with passivated zinc-coated	Polyester reinforced with fibreglass	
Colour		RAL 7035 grey	-	RAL 7035 grey	
Thickness		-	-	4 mm	
Ingress protection rating		-	-	IP00	
Installation		Essential for outdoor use	-	-	
Fixing		-	<ul style="list-style-type: none"> <li>Fixing on the sides by 4 or 6 lugs in horizontal position (6 lugs for enclosures with height <math>\geq 1000</math> mm)</li> <li>10 mm fixing distance on the rear of the enclosure plane</li> </ul>	-	
Maximum load inside enclosure		-	180 kg, including weight of enclosure	-	
Supply		Delivered with the fixings required for installation	Set of 6 lugs and fixings	Delivered with the fixings required for installation	
Width (mm)	Depth (mm) (C)	References			
500	320	NSYTJPLA53G	NSYFMPLA	NSYECPLAZ53G	
750	320	NSYTJPLA73G		NSYECPLAZ73G	
1000	320	NSYTJPLA103G		NSYECPLAZ103G	
1250	320	NSYTJPLA123G		NSYECPLAZ123G	
500	420	NSYTJPLA54G		NSYECPLAZ54G	
750	420	NSYTJPLA74G		NSYECPLAZ74G	
	620	NSYTJPLA76G		NSYECPLAZ76G	
1000	420	NSYTJPLA104G		NSYECPLAZ104G	
1250	420	NSYTJPLA124G		NSYECPLAZ124G	
	620	NSYTJPLA126G		NSYECPLAZ126G	
					<p><b>Cable-entry plate</b></p> <ul style="list-style-type: none"> <li>1-door enclosure</li> </ul> <ul style="list-style-type: none"> <li>2-door enclosure</li> </ul>

(1) For enclosures with height  $\geq 1000$  mm, 1 extra lug at the centre of the A-375 side.

**PLAT PLAZT**



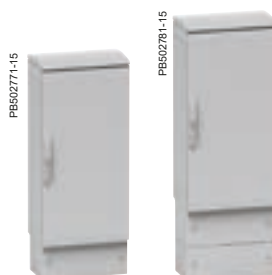
Characteristics		Grille for IP54 instead of IP44	Renovation and anti-graffiti paint	
		1 grille for 500 and 750 mm wide enclosures, 2 grilles for 1000 and 1250 mm wide enclosures. Prevents the entry of dust and provides the enclosure with IP 5X protection at the top. Maintains the possibility of ventilation.	2-component paint system, specially formulated for polyester enclosures. Renews enclosures and allows easy removal of graffiti. Paint composed of: base (80 %) and hardener (20 %).	
Colour		RAL 7035 grey	RAL 7035 grey	
Installation		It is installed from the inside in the upper ventilation opening	-	
Supply		Delivered with G2 M1 standard synthetic filter, see ClimaSys section	1 kg: <ul style="list-style-type: none"> <li>800 g tin of base paint</li> <li>200 g tin of hardener</li> </ul> (Coverage = 5 m <sup>2</sup> )	5 kg: <ul style="list-style-type: none"> <li>4 kg tin of base paint</li> <li>1 kg tin of hardener</li> </ul> (Coverage = 25 m <sup>2</sup> )
References		NSYCAG125LPF	NSYAUPG1G	NSYAUPG5G
				NSYAUPGS

# Polyester floor-standing enclosures

## Specific accessories

**PLA** **PLAT**

### Base accessories



#### Characteristics

#### ZA plinths

- The frontal parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws, which can be accessed from the outside, make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation.
- In stacked position, the bottom plinth can be partially buried.
- It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.

Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey
Ingress protection rating	IP44
Mechanical protection rating	IK10
Fixing	Four floor-attachment points; the symmetry of the parts prevents incorrect assembly
Supply	The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths

For floor-standing enclosure			Plinth		Height 200 mm	Cable-gland area	
Width (mm) (B)	Depth (mm) (C)	References	Width (mm)	Depth (mm)	References	Width (mm)	Depth (mm)
500	320	NSYPLA(T)•53G	494	250	NSYZA253G	360	205
750	320	NSYPLA(T)•73G	744	250	NSYZA273G	610	205
1000	320	NSYPLA(T)•103G	994	250	NSYZA2103G	860	205
1250	320	NSYPLA(T)•123G	1244	250	NSYZA2123G	1100	205
500	420	NSYPLA(T)•54G	494	350	NSYZA254G	360	305
750	420	NSYPLA(T)•74G	744	350	NSYZA274G	610	305
1000	420	NSYPLA(T)•104G	994	350	NSYZA2104G	860	305
1250	420	NSYPLA(T)•124G	1244	350	NSYZA2124G	1110	305
750	620	NSYPLA(T)•76G	744	550	NSYZA276G	610	505
1250	620	NSYPLA(T)•126G	1244	550	NSYZA2126G	1110	505

#### Cable supporting cross-rail

PB50276-29



- **Description:** the lateral sides of the plinth are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.
- **Supply:** the reference of the cross-rail includes all the elements required for assembly.

For plinth		Cross-rail
NSYZA253G	NSYZA254G	NSYAC320
NSYZA273G	NSYZA274G	NSYAC560
NSYZA2103G	NSYZA2104G	NSYAC840
NSYZA2123G	NSYZA2124G	NSYAC1080

#### Kit for IP54

- **Description:** makes it possible to obtain IP 54 for the plinth and the plinth-enclosure connection.
- **Standard:** IEC 61439-1

Reference  
NSYAEZPA

#### Feet for partially buried installation

PB60276-329



- **Description:** allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm. Possibility of horizontal adjustment of the plinth.
- **Supply:** the kit is made up of four feet and fixings.

Reference  
NSYAEBFZ



# Polyester floor-standing enclosures

## Specific accessories

### Base accessories



#### N plinths

Designed to be installed under the closed-bottom enclosures (version PLA or PLAT).

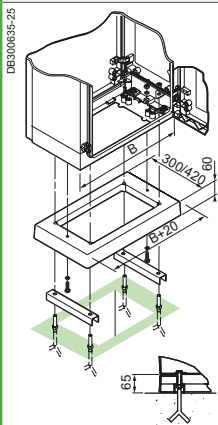
Polyester reinforced with fibreglass  
RAL 7035 grey

Delivered with fixings required for installation

Height 60 mm

#### References

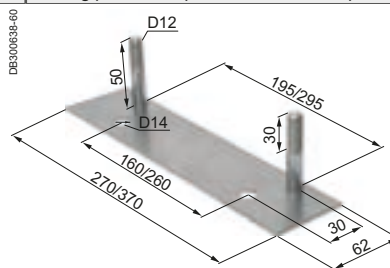
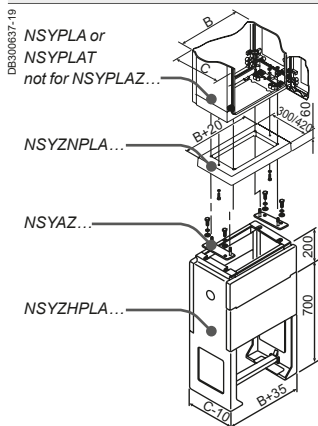
- NSYZNPLA53G
- NSYZNPLA73G
- NSYZNPLA103G
- NSYZNPLA123G
- NSYZNPLA54G
- NSYZNPLA74G
- NSYZNPLA104G
- NSYZNPLA124G



#### Connectors between plinths

- **Description:** designed to allow the adaptation of a closed-bottom enclosure + N plinth on a H-type partially buried plinth.
- **Supply:** 2 parts for adapting the centre-to-centre distances.

For floor-standing enclosure Depth (mm)	Description	References
320	Linking parts for N plinth on 320-mm H plinth	NSYAZ3PLA
420	Linking parts for N plinth on 420-mm H plinth	NSYAZ4PLA

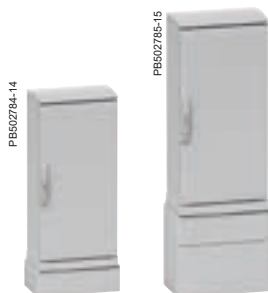


# Polyester floor-standing enclosures

## Specific accessories

**PLAZ** **PLAZT**

### Base accessories



#### Characteristics

#### ZZ plinths (1)

- The frontal parts (front and rear) are removed from the inside. Removing them makes it easier to install the cables.
- The 500-mm plinth can be partially buried.
- It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.

Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey
Ingress protection rating	IP44
Mechanical protection rating	IK10
Fixing	Four floor-attachment points; the symmetry of the parts prevents incorrect assembly
Supply	The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth

For floor-standing enclosure			Plinth		Cable-gland area		Height 200 mm	Height 500 mm
Width (mm) (B)	Depth (mm) (C)	References	Width (mm)	Depth (mm)	Width (mm)	Depth (mm)	References	References
500	320	NSYPLAZ(T)•53G	535	310	419	252	NSYZZ253G	NSYZZ553G
750	320	NSYPLAZ(T)•73G	785	310	669	252	NSYZZ273G	NSYZZ573G
1000	320	NSYPLAZ(T)•103G	1035	310	919	252	NSYZZ2103G	NSYZZ5103G
1250	320	NSYPLAZ(T)•123G	1285	310	1169	252	NSYZZ2123G	NSYZZ5123G
500	420	NSYPLAZ(T)•54G	535	410	419	352	NSYZZ254G	NSYZZ554G
750	420	NSYPLAZ(T)•74G	785	410	669	352	NSYZZ274G	NSYZZ574G
1000	420	NSYPLAZ(T)•104G	1035	410	919	352	NSYZZ2104G	NSYZZ5104G
1250	420	NSYPLAZ(T)•124G	1285	410	1169	352	NSYZZ2124G	NSYZZ5124G
750	620	NSYPLAZ(T)•76G	785	610	669	552	NSYZZ276G	-
1250	620	NSYPLAZ(T)•126G	1285	610	1169	552	NSYZZ2126G	-

#### Cable supporting cross-rail

PB502766-20



- **Description:** the lateral sides of the plinths are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.
- **Supply:** the reference of the cross-rail includes all the elements required for assembly.

For plinth				Cross-rail
NSYZZ253G	NSYZZ254G	NSYZZ553G	NSYZZ554G	NSYAC360
NSYZZ273G	NSYZZ274G	NSYZZ573G	NSYZZ574G	NSYAC600
NSYZZ2103G	NSYZZ2104G	NSYZZ5103G	NSYZZ5104G	NSYAC840
NSYZZ2123G	NSYZZ2124G	NSYZZ5123G	NSYZZ5124G	NSYAC1120

#### Outside opening kit

**Description:** the 200-mm front part of the 200- and 500-mm plinths can be opened from the outside, after installing a kit made up of two locks with double-bar insert.

**Reference**

NSYAE LZ

#### Feet for partially buried installation

PB502767-23



- **Description:** allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm. Possibility of horizontal adjustment of the plinth.
- **Supply:** the reference includes a kit made up of four feet and fixings.

**Reference**

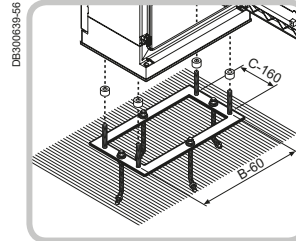
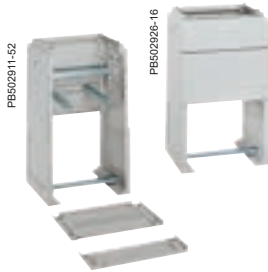
NSYAE BFZ

(1) For enclosures using ZZ or ZH type plinths the coupling kit to use is the NSYMUPLA\*\*\*W.

# Polyester floor-standing enclosures

## Specific accessories

### Base accessories

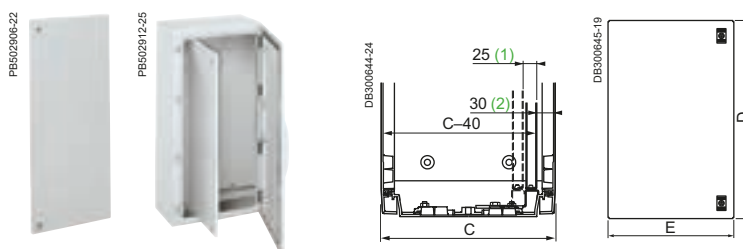


Buriable H plinths	Floor-standing frame
<ul style="list-style-type: none"> <li>■ Front panel with a height of 170 mm, retractable, providing easy access to the inside.</li> <li>■ Fixed front panel with a height of 305 mm, corresponding to the finished floor height area.</li> <li>■ The height above the floor after building-in varies between 200 and 500 mm.</li> <li>■ A metal rail helps to fix the entry cables.</li> <li>■ Lateral uprights with pre-knock-out auxiliary output with Ø Pg 36 (48 mm).</li> <li>■ A pre-knock-out area is provided at the bottom of the lateral uprights for cable entry, if necessary.</li> </ul>	<p>Frame for direct fixing on the floor for installing open-bottom enclosures (version PLAZ or PLAZT).</p>
Polyester reinforced with fibreglass	Passivated zinc-coated steel
RAL 7035 grey	-
-	-
-	-
Delivered with the fixings required for installation	Delivered with fixings required for installation
<b>Height 900 mm</b>	
<b>References</b>	<b>References</b>
NSYZHPLA53G	NSYMFPLAZ53
NSYZHPLA73G	NSYMFPLAZ73
NSYZHPLA103G	NSYMFPLAZ103
NSYZHPLA123G	NSYMFPLAZ123
NSYZHPLA54G	NSYMFPLAZ54
NSYZHPLA74G	NSYMFPLAZ74
NSYZHPLA104G	NSYMFPLAZ104
NSYZHPLA124G	NSYMFPLAZ124
	NSYMFPLAZ76
	NSYMFPLAZ126
<b>Floor-fixing studs</b>	<b>Floor-fixing studs</b>
	<ul style="list-style-type: none"> <li>■ <b>Description:</b> set of four threaded parts and fixings, for fixing the enclosures on concrete plinths.</li> </ul>
	<b>Reference</b>
	NSYFSPLAZ
<b>Technical drawing</b>	<b>Technical drawing</b>

# Polyester floor-standing enclosures

## Specific accessories

### Door

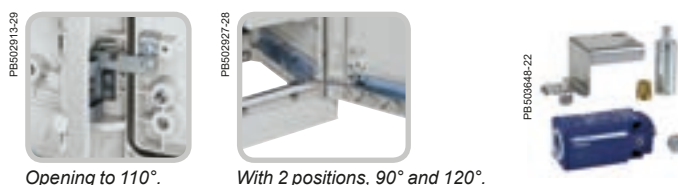


Characteristics		Internal door		
		<ul style="list-style-type: none"> <li>■ Designed for direct installation in enclosures with sealed bottom part. In the enclosures with the bottom part open, installation can be performed by ordering the necessary adapter plates, ref. <b>NSYPTZ...</b></li> <li>■ 2 depthwise mounting positions (1) according to the chosen M8 bosses to fix, on the top and bottom parts of the enclosure.</li> <li>■ IP20 (only if the internal door is mounted on the advanced position).</li> <li>■ Reversible assembly left / right, for single door enclosures.</li> <li>■ Lock with 5-mm double-bar inserts.</li> <li>■ Incompatibility with: modular distribution chassis, 19" chassis, cable-entry plate and door retainer, ref. <b>NSYRETPLAU</b>.</li> </ul>		
Material		Carbon steel painted		
Colour		RAL 7035 grey		
Supply		Delivered with M8 brass inserts and fixings		
For enclosure (mm)		Internal door dimensions		References
Height	Width	D	E	
500	500	398	398	<b>NSYPAPLA55G</b>
	750	398	648	<b>NSYPAPLA57G</b>
	1000	398	796 (2 x 398)	2 x <b>NSYPAPLA55G</b>
	1250	398	1046 (398 + 648)	<b>NSYPAPLA55G + NSYPAPLA57G</b>
750	500	648	398	<b>NSYPAPLA75G</b>
	750	648	648	<b>NSYPAPLA77G</b>
	1000	648	796 (2 x 398)	2 x <b>NSYPAPLA75G</b>
	1250	648	1046 (398 + 648)	<b>NSYPAPLA75G + NSYPAPLA77G</b>
1000	500	898	398	<b>NSYPAPLA105G</b>
	750	898	648	<b>NSYPAPLA107G</b>
	1000	898	796 (2 x 398)	2 x <b>NSYPAPLA105G</b>
	1250	898	1046 (398 + 648)	<b>NSYPAPLA105G + NSYPAPLA107G</b>
1250	500	1148	398	<b>NSYPAPLA125G</b>
	750	1148	648	<b>NSYPAPLA127G</b>
	1000	1148	796 (2 x 398)	2 x <b>NSYPAPLA125G</b>
	1250	1148	1046 (398 + 648)	<b>NSYPAPLA125G + NSYPAPLA127G</b>
1500	500	1398	398	<b>NSYPAPLA155G</b>
	750	1398	648	<b>NSYPAPLA157G</b>
	1000	1398	796 (2 x 398)	2 x <b>NSYPAPLA155G</b>
	1250	1398	1046 (398 + 648)	<b>NSYPAPLA155G + NSYPAPLA157G</b>

(1) Two positions for depthwise installation.

(2) The 2<sup>nd</sup> position moves the position of the internal door back by 25 mm.

### Door accessories



Opening to 110°.

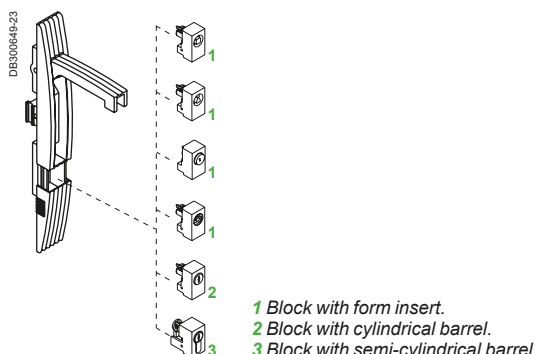
With 2 positions, 90° and 120°.

Characteristics		Door retainer	Door switch
		<ul style="list-style-type: none"> <li>■ Designed to adapt directly to the enclosure.</li> <li>■ Can be installed on a door opening to the left or right indistinctly.</li> </ul>	<ul style="list-style-type: none"> <li>NC + NO switch.</li> <li>Incompatible with the rear door and modular distribution chassis.</li> </ul>
Material		Galvanised steel	-
Supply		Delivered with the fixings required for installation	Switch, fixing bracket and fixings
		<b>PLA, PLAZ, PLAT versions</b> <b>NSYRETPLA</b>	<b>Reference</b> <b>NSYSNLPLA</b>
		<b>PLA, PLAZ, PLAT, PLAZT versions*</b> <b>NSYRETPLAU</b>	
		<p>* Note: ref. <b>NSYRETPLAU</b> is incompatible with internal doors, modular distribution chassis, step slides, adapter plates and cable-entry plates. In the event of incompatibility, use ref. <b>NSYRETPLA</b>.</p>	

# Polyester floor-standing enclosures

## Specific accessories

### Locking system



Characteristics	Lock with handle
	Ergonomic locking system with pivoting handle installed as standard on enclosures with ventilated canopy and/or open bottom part, with a 5 mm double-bar insert block.
Material	PA6
Colour	RAL 7035 grey

### Options

Options for changing the form-insert blocks (supplied with the required operating key)	References	Options for changing the handle lock	References
Block, 6 mm square insert	NSYINS61	<p>Changing the handle for a handle including a padlocking device (Ø 10 mm) allowing the handle to be locked. The handle is delivered without barrel or insert block.</p>	NSYBCMPLAG
Block, 7 mm square insert	NSYINS71		
Block, 8 mm square insert	NSYINS81		
Block, 6.5 mm triangular insert	NSYINT61		
Block, 8 mm triangular insert	NSYINT81	<p>Spare handle lock without barrel or insert blocks. The insert or barrel are to be chosen from the option table.</p>	NSYEBMPLAG
Push-button	NSYTSPLA		
Double bar	NSYINDB51		

Options for changing the blocks with cylindrical barrels			
Type of key	References	Type of key	References
405 E key	NSYIN405E1	3113 A key	NSYIN3113A1
421 E key	NSYIN421E1	3122 E key	NSYIN3122E1
455 key	NSYIN4551	3123 A key	NSYIN3123A1
1242 E key	NSYIN1242E1	3131A1 key	NSYIN3131A1
1332 E key	NSYIN1332E1	3133 A key	NSYIN3133A1
2131 A key	NSYIN2131A1	3422 E key	NSYIN3422E1
2132 A key	NSYIN2132A1	3432 E key	NSYIN3432E1
2331 A key	NSYIN2331A1	6101 key	NSYIN6101
2433 A key	NSYIN2433A1	EDF 1300 key	NSYINF1301
2452 E key	NSYIN2452E1	EDF 1400 key	NSYINF1401

Options for changing the blocks with semi-cylindrical barrels	References
1242 E key	NSYIN1242E2
DIN adapter	NSYINDIN2
JIS key	NSYINKJIS2
Reinforced key	NSYINKR2
FAC key	NSYINKFAC2

Type of lock	Insert references	Key references
⊕ 5 mm double bar	NSYTD5PLA	⊕ NSYLD5
□ 6 mm	NSYTC6CRN	⊕ NSYLC7
□ 7 mm	NSYTC7CRN	⊕ NSYLC7
□ 8 mm	NSYTC8CRN	⊕ NSYLC8
△ 6.5 mm	NSYTT6CRN	⊕ NSYLT8
△ 7 mm	NSYTT7CRN	⊕ NSYLT8
△ 8 mm	NSYTT8CRN	⊕ NSYLT8

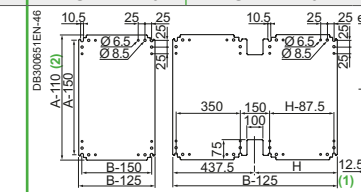
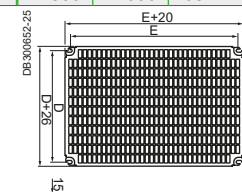
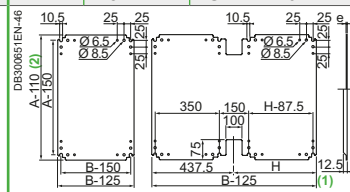
# Polyester floor-standing enclosures

## Specific accessories

### Installation accessories



Characteristics	Metallic mounting plate			Insulating mounting plate						
	Plain mounting plate			Telequick mounting plate						
	<ul style="list-style-type: none"> <li>Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 195). The enclosures with height of <math>\geq 1000</math> mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. <b>NSYTEX8</b>, to be ordered separately).</li> <li>In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates.</li> </ul>			<ul style="list-style-type: none"> <li>Grille with 11 x 26 mm drill holes, with a step of 15 x 30 mm, for direct installation, with clip nuts, of all the devices with fixing at 2, 3 or 4 points, by screws with diameters of 3, 4, 5 or 6 mm.</li> <li>Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 195). The enclosures with height of <math>\geq 1000</math> mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. <b>NSYTEX8</b>, to be ordered separately).</li> </ul>			<ul style="list-style-type: none"> <li>Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 195). The enclosures with height of <math>\geq 1000</math> mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. <b>NSYTEX8</b>, to be ordered separately).</li> <li>In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates.</li> </ul>			
Material	Galvanised sheet-steel			Galvanised-steel			Bakelite	Polyester		
Finish	-			-			-	-		
Colour	-			-			-	-		
Thickness	2.5 mm			-			4 mm	<ul style="list-style-type: none"> <li>4 mm up to 700 mm height</li> <li>5 mm from 800 mm height</li> </ul>		
Maximum load	150 kg/m <sup>2</sup>			150 kg/m <sup>2</sup>			100 kg/m <sup>2</sup>			
Supply	1 mounting plate			1 mounting plate			1 mounting plate			
For enclosure (mm)	Dimensions			Dimensions			References			
Height (A)	Width (B)	H (mm)	Surface (dm <sup>2</sup> )	References	E (mm)	D (mm)	Surface (dm <sup>2</sup> )	References		
500	500	-	14	<b>NSYPMM55</b>	350	350	13	<b>NSYPMR55</b>	<b>NSYPMB55</b>	<b>NSYPMA55</b>
	750	-	24	<b>NSYPMM75</b>	350	600	23	<b>NSYPMR57</b>	<b>NSYPMB75</b>	<b>NSYPMA75</b>
	1000	437.5	32	<b>NSYPMM510</b>	350	2 x 350	26	2 x <b>NSYPMR55</b>	<b>NSYPMB510</b>	<b>NSYPMA510</b>
	1250	-	38	<b>NSYPMM55 + NSYPMM75</b>	350	350 + 600	36	<b>NSYPMR55 + NSYPMR57</b>	<b>NSYPMB55 + NSYPMB75</b>	<b>NSYPMA55 + NSYPMA75</b>
750	500	-	24	<b>NSYPMM75</b>	600	350	23	<b>NSYPMR75</b>	<b>NSYPMB75</b>	<b>NSYPMA75</b>
	750	-	40	<b>NSYPMM77</b>	600	600	38	<b>NSYPMR77</b>	<b>NSYPMB77</b>	<b>NSYPMA77</b>
	1000	437.5	54	<b>NSYPMM710</b>	600	2 x 350	46	2 x <b>NSYPMR75</b>	<b>NSYPMB710</b>	<b>NSYPMA710</b>
	1250	687.5	70	<b>NSYPMM712</b>	600	350 + 600	61	<b>NSYPMR75 + NSYPMR77</b>	<b>NSYPMB712</b>	<b>NSYPMA712</b>
1000	500	-	33	<b>NSYPMM105</b>	850	350	32	<b>NSYPMR105</b>	<b>NSYPMB105</b>	<b>NSYPMA105</b>
	750	-	55	<b>NSYPMM107</b>	850	600	54	<b>NSYPMR107</b>	<b>NSYPMB107</b>	<b>NSYPMA107</b>
	1000	437.5	74	<b>NSYPMM1010</b>	850	2 x 350	64	2 x <b>NSYPMR105</b>	<b>NSYPMB1010</b>	<b>NSYPMA1010</b>
	1250	687.5	96	<b>NSYPMM1012</b>	850	350 + 600	86	<b>NSYPMR105 + NSYPMR107</b>	<b>NSYPMB1012</b>	<b>NSYPMA1012</b>
1250	500	-	42	<b>NSYPMM125</b>	1100	350	42	<b>NSYPMR125</b>	<b>NSYPMB125</b>	<b>NSYPMA125</b>
	750	-	70	<b>NSYPMM127</b>	1100	600	70	<b>NSYPMR127</b>	<b>NSYPMB127</b>	<b>NSYPMA127</b>
	1000	437.5	96	<b>NSYPMM1210</b>	1100	2 x 350	84	2 x <b>NSYPMR125</b>	<b>NSYPMB1210</b>	<b>NSYPMA1210</b>
	1250	687.5	124	<b>NSYPMM1212</b>	1100	350 + 600	112	<b>NSYPMR125 + NSYPMR127</b>	<b>NSYPMB1212</b>	<b>NSYPMA1212</b>
1500	500	-	51	<b>NSYPMM155</b>	1350	350	51	<b>NSYPMR155</b>	<b>NSYPMB155</b>	-
	750	-	85	<b>NSYPMM157</b>	1350	600	85	<b>NSYPMR157</b>	<b>NSYPMB157</b>	-
	1000	437.5	118	<b>NSYPMM1510</b>	1350	2 x 350	102	2 x <b>NSYPMR155</b>	<b>NSYPMB1510</b>	-
	1250	687.5	152	<b>NSYPMM1512</b>	1350	350 + 600	136	<b>NSYPMR155 + NSYPMR157</b>	<b>NSYPMB1512</b>	-
2000	750	-	115	<b>NSYPMM207</b>	2 x 850	2 x 600	108	2 x <b>NSYPMR107</b>	2 x <b>NSYPMB107</b>	2 x <b>NSYPMA107</b>



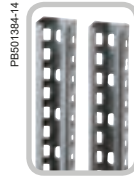
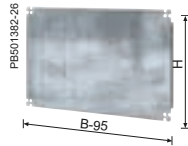
(1) Reinforcing fold for steel mounting plate **NSYPMM1010** to **NSYPMM1512**.

(2) A-125 for references **NSYPMM1010** to **NSYPMM1512**, A-120 for the polyester mounting plate, ref. **NSYPMA...**

# Polyester floor-standing enclosures

## Specific accessories

### Installation accessories



Side mounting plates				Partial plain mounting plate		Technical uprights		Anti-burglary accessory	
Polyester mounting plates fixed to the sides of the enclosure for additional installations. Installation on the M8 bosses by adding inserts, ref. <b>NSYTEX8</b> .				Direct fixing on the uprights, with the notched sliding nuts or pivoting nuts, see common accessories section.		<ul style="list-style-type: none"> <li>Supports for fixing rails, perforated grilles and plain partial mounting plates.</li> <li>Details in the common accessory section.</li> <li>Fixing at the rear on the M8 inserts or on the step slides.</li> </ul>		Anti-burglary accessory for polyester outdoor Heavy Duty in accordance with ENV 1627-1630:2011 class 2. It keeps the Insulation Class II according to IEC 61439-1:2011.	
Polyester				Galvanised sheet-steel		Zinc-coated steel		Steel with anti-corrosive coating	
-				-		-		Structured finish, 100 % polyester powder	
-				-		-		RAL 7035 grey	
<ul style="list-style-type: none"> <li>4 mm up to 750 mm height</li> <li>5 mm from 800 mm height</li> </ul>				2.5 mm		2 mm		-	
100 kg/m <sup>2</sup>				150 kg/m <sup>2</sup>		-		-	
Reference by unit. Order by multiples of 2				1 mounting plate		2 technical uprights		1	
References				References		Dimensions		References	
Enclosure depth			247 mm height (H)	397 mm height (H)	(mm)	References	Depth 420 mm	Depth 620 mm	
320 mm	420 mm	620 mm							
NSYPMLA53	NSYPMLA54	-	-	-	-	-	-	-	
NSYPMLA53	NSYPMLA54	-	NSYSPMP2575	-			-	-	
NSYPMLA53	NSYPMLA54	-	NSYSPMP25100	NSYSPMP40100			-	-	
NSYPMLA53	NSYPMLA54	-	-	-			-	-	
NSYPMLA73	NSYPMLA74	NSYPMLA76	-	-	625	NSYTVR7	-	-	
NSYPMLA73	NSYPMLA74	-	NSYSPMP2575	-			NSYBGN774HD	NSYBGN776HD	
NSYPMLA73	NSYPMLA74	-	NSYSPMP25100	NSYSPMP40100			-	-	
NSYPMLA73	NSYPMLA74	-	-	-			-	-	
NSYPMLA103	NSYPMLA104	-	-	-	875	NSYTVR10	NSYBGN1054HD	-	
NSYPMLA103	NSYPMLA104	-	NSYSPMP2575	-			NSYBGN1074HD	-	
NSYPMLA103	NSYPMLA104	-	NSYSPMP25100	NSYSPMP40100			-	-	
NSYPMLA103	NSYPMLA104	-	-	-			-	-	
NSYPMLA123	NSYPMLA124	NSYPMLA126	-	-	1125	NSYTVR125	NSYBGN1254HD	-	
NSYPMLA123	NSYPMLA124	-	NSYSPMP2575	-			NSYBGN1274HD	NSYBGN1276HD	
NSYPMLA123	NSYPMLA124	-	NSYSPMP25100	NSYSPMP40100			-	-	
NSYPMLA123	NSYPMLA124	-	-	-			NSYBGN12124HD	NSYBGN12126HD	
-	-	-	-	-	1375	NSYTVR15	-	-	
-	-	-	NSYSPMP2575	-			NSYBGN1574HD	NSYBGN1576HD	
-	-	-	NSYSPMP25100	NSYSPMP40100			-	-	
-	-	-	-	-			NSYBGN15124HD	NSYBGN15126HD	
-	2 x NSYPMLA104	-	NSYSPMP2575	-	1875	2 x NSYTVR10	NSYBGN2074HD	-	
						<i>Note: enclosures with widths of 1000 and 1250 allow the installation of 4 uprights to integrate 2 mounting plates of 500 mm or of 500 and 750 mm.</i>			

# Polyester floor-standing enclosures

## Specific accessories

### Installation accessories



Characteristics		Modular distribution chassis*					
		<ul style="list-style-type: none"> <li>■ Chassis for modular switchgear, installed directly in the sealed enclosures (PLA version). For installation in enclosures with open bottom part (PLAZ version) it is necessary to use a set of adapter plates (ref. <b>NSYPTZ●●●</b>).</li> <li>■ Chassis made up of cover plates on a rigid structure.</li> <li>■ Front plate: quick fixing without screws.</li> <li>■ Distance between rail and front panel with adjustable depth from 40 to 85 mm.</li> <li>■ System for identifying electrical circuits supplied.</li> <li>■ Neutral/earth strip: 2 x 16 mm<sup>2</sup> + 5 x 6 mm<sup>2</sup> included in the standard offer.</li> <li>■ Incompatibility with: cable-entry plate, internal door, door switch and door retainer (ref. <b>NSYRETPLAU</b>).</li> </ul>					
Material		<ul style="list-style-type: none"> <li>■ Rigid structure: galvanised-steel</li> <li>■ Cover plates: self-extinguishing insulating</li> </ul>					
Colour		Cover plates: RAL 7035 grey					
For enclosure (mm)		No. of doors	No. of rows	Rows for module		No. of plates	References
Height (A)	Width (B)			No.	No. of 18-mm modules		
750	500	1	4	4	76	-	NSYDLP76G
		1	4	3	57	1	NSYDLP57G
	750	1	4	4	132	-	NSYDLP132G
		1	4	3	99	1	NSYDLP99G
	1000	2	4 + 4	4 + 4	152	-	2 x NSYDLP76G
		2	4 + 4	3 + 3	114	1 + 1	2 x NSYDLP57G
1250	2	4 + 4	4 + 4	208	-	NSYDLP76G + NSYDLP132G	
	2	4 + 4	3 + 3	156	1 + 1	NSYDLP57G + NSYDLP99G	
1000	500	1	6	6	114	-	NSYDLP114G
		1	6	5	95	1	NSYDLP95G
	750	1	6	6	198	-	NSYDLP198G
		1	6	5	165	1	NSYDLP165G
	1000	2	6 + 6	6 + 6	228	-	2 x NSYDLP114G
		2	6 + 6	5 + 5	190	1 + 1	2 x NSYDLP95G
	1250	2	6 + 6	6 + 6	312	-	NSYDLP114G + NSYDLP198G
		2	6 + 6	5 + 5	260	1 + 1	NSYDLP95G + NSYDLP165G
1250	500	1	7	7	133	-	NSYDLP133G
		1	7	6	114	1	NSYDLP114PG
	750	1	7	7	231	-	NSYDLP231G
		1	7	6	198	1	NSYDLP198PG
	1000	2	7 + 7	7 + 7	266	-	2 x NSYDLP133G
		2	7 + 7	6 + 6	228	1 + 1	2 x NSYDLP114PG
	1250	2	7 + 7	7 + 7	364	-	NSYDLP133G + NSYDLP231G
		2	7 + 7	6 + 6	312	1 + 1	NSYDLP114PG + NSYDLP198PG
1500	500	1	9	9	171	-	NSYDLP171G
		1	9	8	152	1	NSYDLP152G
	750	1	9	9	297	-	NSYDLP297G
		1	9	8	264	1	NSYDLP264G
	1000	2	9 + 9	9 + 9	342	-	2 x NSYDLP171G
		2	9 + 9	8 + 8	304	-	2 x NSYDLP152G
	1250	2	9 + 9	9 + 9	468	1 + 1	NSYDLP171G + NSYDLP297G
		2	9 + 9	8 + 8	416	1 + 1	NSYDLP152G + NSYDLP264G

\* Other modular distribution accessories on page 194.



# Polyester floor-standing enclosures

## Specific accessories

PB502916-95

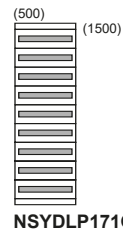
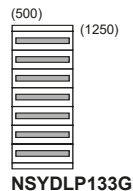
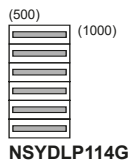
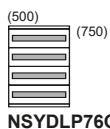


### Installation accessories

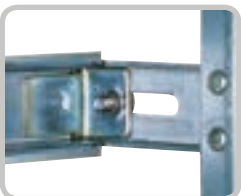
#### Dimensions

#### Modular distribution chassis

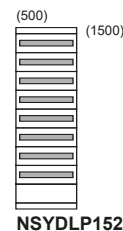
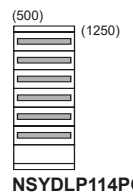
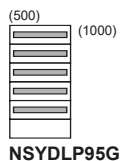
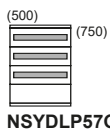
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PB501388-41



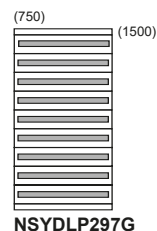
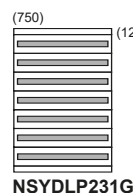
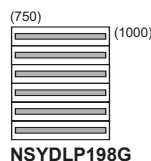
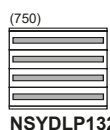
Details of the depth adjustment.



PB502919-37



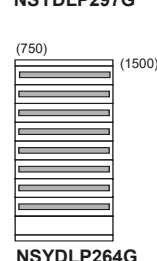
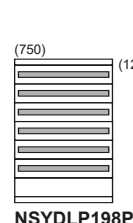
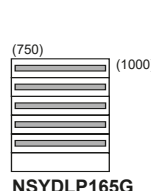
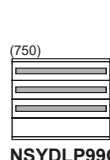
Detail from front-panel mounting.



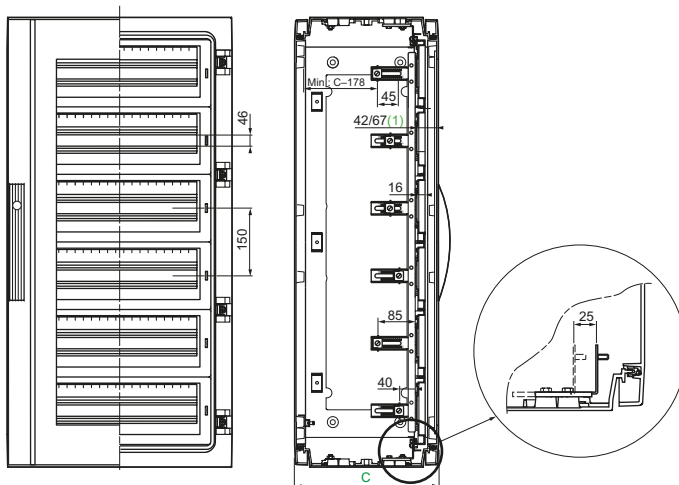
PB502920-32



Detail from the circuit-marking system.



DE300861-90



(1) Dimensions of 42 or 67 mm or a pitch of 25 mm, according to the M8 boss chosen for the installation. See details in the enlarged image on the right. In the enclosures with glazed doors, the 2 dimensions are reduced by 5 mm.

Warning: IP2X cannot be respected if it's mounted on 2<sup>nd</sup> boss (67 mm from the door).

# Polyester floor-standing enclosures

## Specific accessories

### Installation accessories



Characteristics	Plain cover plate			Plain mounting plate		
	<ul style="list-style-type: none"> <li>Plain cover plate for non-modular switchgear protection.</li> <li>Can be cutted out according to needs.</li> </ul>			<ul style="list-style-type: none"> <li>Plate for fixing non-modular devices.</li> <li>Depth-adjustable fixing on the supports from 40 to 85 mm.</li> </ul>		
Material	<ul style="list-style-type: none"> <li>Polystyrene (PS) (for 146 mm high)</li> <li>Fiberglass reinforced polyester (for 298 mm high)</li> </ul>			Galvanised steel 2 mm thick		
Colour	RAL 7035					
Supply	Order by multiples of 2 (2, 4, 6...)			Order by multiples of 2 (2, 4, 6...)		
<b>For enclosure</b>	<b>Height</b>	<b>Thickness</b>	<b>References</b>	<b>Height</b>	<b>Thickness</b>	<b>References</b>
<b>Width (mm)</b>	<b>A (mm)</b>	<b>(mm)</b>		<b>A (mm)</b>	<b>(mm)</b>	
500	146	2	NSYCTL500DLPG	149	2	NSYPMP500DLP
	298	4	NSYCTL500DLP2	298	2	NSYPMP5002DLP
750	146	2	NSYCTL750DLPG	149	2	NSYPMP750DLP
	298	4	NSYCTL750DLP2	298	2	NSYPMP7502DLP

# Polyester floor-standing enclosures

## Specific accessories

### Installation accessories



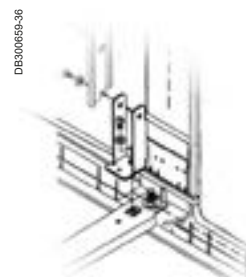
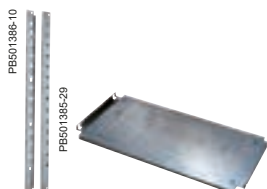
Characteristics		Step slides	Adapter plates
		<ul style="list-style-type: none"> <li>■ Set of 4 step slides with brackets allowing continuous depth adjustment of the mounting plate, with a pitch of 25 mm.</li> <li>■ Designed for direct installation in the enclosures with sealed bottom part (versions PLA or PLAT).</li> <li>■ In the enclosures with open bottom part (versions PLAZ or PLAZT), installation is made possible by adding the relevant adapter plates.</li> <li>■ Incompatibility with: internal door, modular distribution chassis, 19" chassis, cableentry plate and door retainer, ref. <b>NSYRETPLAU</b>.</li> </ul>	<ul style="list-style-type: none"> <li>■ The enclosures with open bottom part (versions PLAZ and PLAZT) require a set of adapter plates for mounting:                             <ul style="list-style-type: none"> <li>□ an internal door,</li> <li>□ step slides,</li> <li>□ modular chassis and 19" chassis.</li> </ul> </li> <li>■ <b>NSYPTZ●●●</b> for one door enclosures</li> <li>■ <b>NSYPTX●●● 2P</b> for two door enclosures</li> </ul>
Material		Bracket with steel M8 stud on aluminium rail	Galvanised steel
Fixing		Fixing on the top and bottom parts of the enclosure by means of M8 inserts and screws (supplied)	Fixing on the bottom part of the enclosure by means of M8 inserts and screws (supplied)
For enclosure (mm)		References	
Depth	No. of doors		
320	1	<b>NSYDPLA3</b>	<b>NSYPTZ3</b>
	2	<b>2 x NSYDPLA3</b>	<b>NSYPTZ32P</b>
420	1	<b>NSYDPLA4</b>	<b>NSYPTZ4</b>
	2	<b>2 x NSYDPLA4</b>	<b>NSYPTZ42P</b>
620	1	<b>NSYDPLA6</b>	<b>NSYPTZ6</b>
	2	<b>2 x NSYDPLA6</b>	<b>NSYPTZ62P</b>
		<b>Installation of step slide ref. NSYDPLA●●●</b>	
			<p><b>Additional support</b></p> <p>Set of 4 additional brackets, to be slid into the step slides, for the installation of an additional mounting plate.</p> <p><b>Reference</b></p> <p><b>NSYEDPLA</b></p>
		<b>Installation of step slide ref. NSYDPLA●●●, with adapter plate ref. NSYPTZ●●●</b>	

(1) 57 mm with one transparent door.

# Polyester floor-standing enclosures

## Specific accessories

### Installation accessories



Characteristics		Support plate		M8 inserts	Intermediate support in the 2-door enclosures
		<ul style="list-style-type: none"> <li>Designed to support assorted equipment or simply to install a separation.</li> <li>In the 2-door enclosures, the installation of the plate or the uprights requires the prior installation of an intermediate support, ref. <b>NSYSBPLA</b>, presented beside.</li> </ul>		To be placed in the bosses moulded on the doors, uprights, rear panels and bottom and top parts, for fixing accessories and assorted devices.	Required accessory for installing support plates, ref. <b>NSYBANPLA●●●</b> or uprights, ref. <b>NSYSPLA●●●</b> in the 2-door enclosures.
Material		Galvanised steel		Brass	Galvanised steel
Installation		<ul style="list-style-type: none"> <li>It is installed directly on the bottom part of the enclosure</li> <li>For the installation of one or several support plates, use 2 sets of 2 uprights suitable for the height (to be ordered separately). These uprights offer the option of adjusting the height with a step of 50 mm</li> </ul>		-	-
Supply		Delivered with the fixings required for installation		References by unit. Order by multiples of 8 units (8, 16, 24, etc.)	Two support kits
<b>For enclosure (mm)</b>		<b>Upright</b>			
<b>Height</b>	<b>Depth</b>	<b>No. of adjustments</b>	<b>References</b>	<b>Reference</b>	<b>Reference</b>
750	320 420	2	2 x <b>NSYSPLA75</b>	<b>NSYTEX8</b>	<b>NSYSBPLA</b>
1000	320 420	3	2 x <b>NSYSPLA100</b>		
1250	320 420	4	2 x <b>NSYSPLA125</b>		
1500	-	5	2 x <b>NSYSPLA150*</b>		
<b>For enclosure (mm)</b>		<b>Plate</b>			
<b>Depth (C)</b>	<b>Width (B)</b>	<b>Max. load</b>	<b>References</b>		
320	500	60 kg	<b>NSYBANPLA53</b>		
	750	60 kg	<b>NSYBANPLA73</b>		
420	500	50 kg	<b>NSYBANPLA54</b>		
	750	50 kg	<b>NSYBANPLA74</b>		
620	500	50 kg	<b>NSYBANPLA56</b>		
	750	50 kg	<b>NSYBANPLA76</b>		
		<b>Upright</b> 			
		<b>Plate</b> 			

(1) NSYSPLA75 ; (2) NSYSPLA100 ; (3) NSYSPLA125 ; (4) NSYSPLA150.

\* Not compatible with NSYCAAPVHD.

# Polyester floor-standing enclosures

## Specific accessories

### 19" chassis

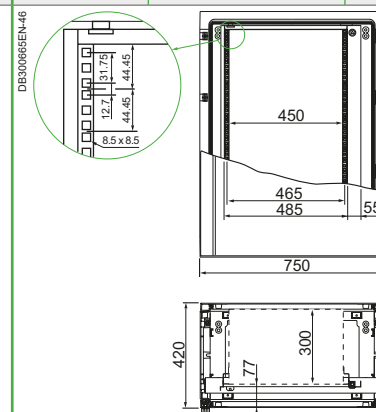
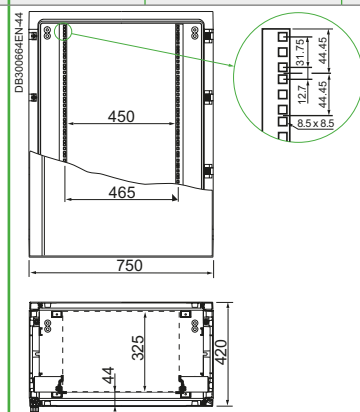


Enclosure with 19" fixed chassis.



Enclosure with 19" swing chassis.

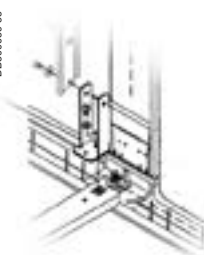
Characteristics		19" fixed chassis		19" swing chassis	
		<ul style="list-style-type: none"> <li>Very sturdy 19" metal chassis, designed for installation in enclosures with a width of 750 and 1250 mm. In the 1250 mm enclosure, the chassis is installed in the 750 mm part with an intermediate support, ref. <b>NSYSBPLA</b>.</li> <li>These chassis can be used as partial mounting plates in enclosures with higher-than-nominal height.</li> <li>Incompatible with the internal doors and the step slides.</li> <li>Fixed chassis made up of 2 uprights with fixings.</li> </ul>		<ul style="list-style-type: none"> <li>Swing chassis opening to 120° with 5 mm double-bar key lock.</li> </ul>	
Material		Galvanised steel		Galvanised steel	
Finish		Epoxy-polyester paint		Swing part: epoxy-polyester paint	
Colour		RAL 7035 grey		RAL 7035 grey (swing part only)	
Installation		For heights from 750 to 1500 mm, the installation requires ordering 1 batch of 2 matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure		For heights from 750 to 1500 mm, the installation requires ordering 1 batch of 2 matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure	
Maximum load		3 kg per U		3 kg per U	
<b>For enclosure</b>		<b>Number of U</b>	<b>References</b>	<b>Number of U</b>	<b>References</b>
<b>Height (mm)</b>	<b>Width (mm)</b>		<b>19" fixed chassis</b> <b>Batch of 2 uprights</b>		<b>19" swing chassis</b> <b>Batch of 2 uprights</b>
500	750	8	NSYBRF8PLAG -	7	NSYBRP7PLAG -
750	750	12	NSYBRF12PLAG NSYSPLA75	11	NSYBRP11PLAG NSYSPLA75
1000	750	17	NSYBRF17PLAG NSYSPLA100	16	NSYBRP16PLAG NSYSPLA100
1250	750	21	NSYBRF21PLAG NSYSPLA125	20	NSYBRP20PLAG NSYSPLA125
1500	750	26	NSYBRF26PLAG NSYSPLA150*	25	NSYBRP25PLAG NSYSPLA150
2000	750	2 X 17	2 x NSYBRF17PLAG + NSYPTZ4 2 x NSYSPLA100	2 x 16	2 x NSYBRP16PLAG 2 x NSYSPLA100



\* Not compatible with NSYCAAPVHD.

### [!] Recommendation

DB500669-33



#### Intermediate support

Accessory required for installing uprights, ref. **NSYSPLA●●●**.

- Only for two door enclosures.
- Supply: 1 (including 2 supports)

#### Reference

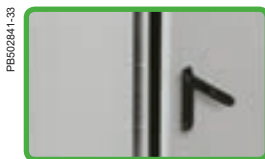
**NSYSBPLA**

# Polyester DIN floor-standing enclosure

## Introduction

➤ **Floor-standing enclosures** designed mainly to accommodate busbars and DIN-type three-pole LV fuse, for LV public distribution network.

The properties of the material and the manufacturing process are identical to those of the Thalassa PLA range.



### Smart

Enclosure ref. **NSYPLD8122G** with the central upright fixed to the left door.



Enclosure ref. **NSYPLD8122CG** with central upright, 2 doors and 2 locks.



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

### LV public distribution application with DIN three-pole fuse blocks: floor-standing enclosure and plinth



### This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

# Polyester DIN floor-standing enclosure

## Characteristics

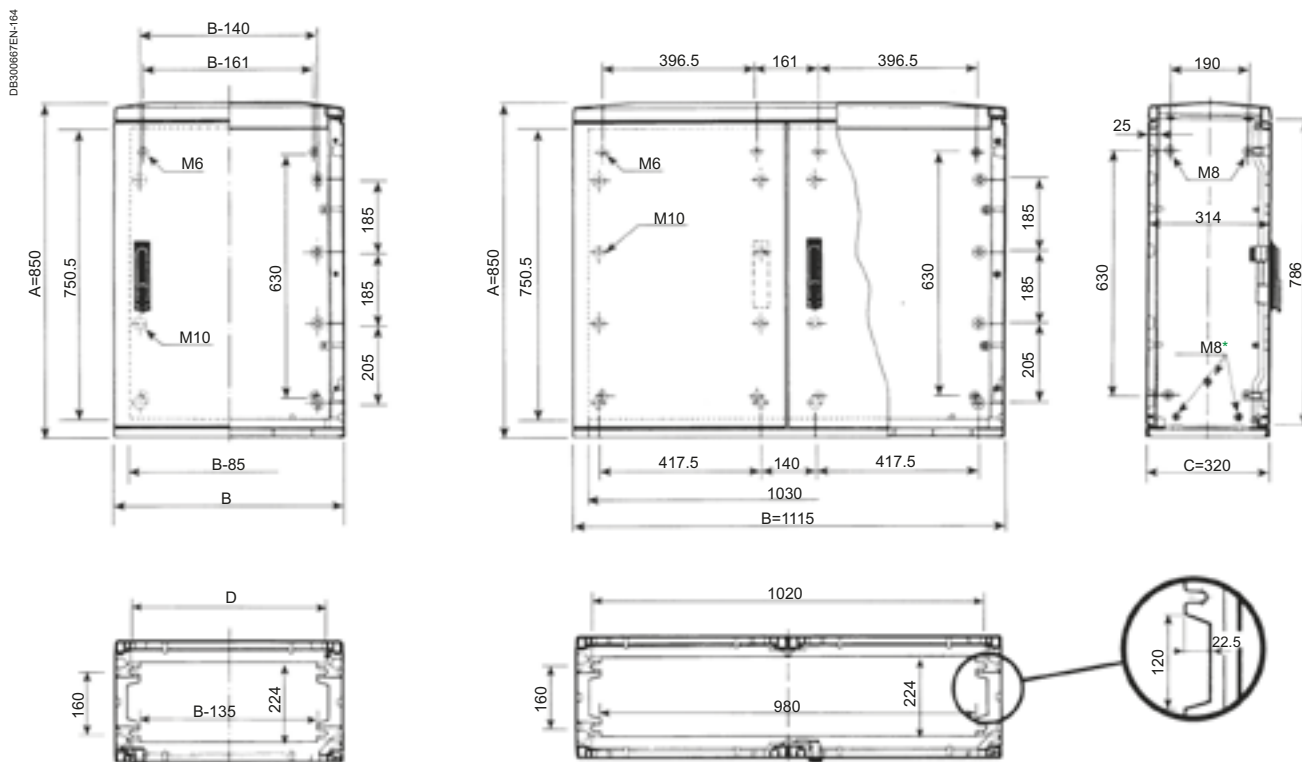


Characteristics			Thalassa PLD			
			<ul style="list-style-type: none"> <li>■ Floor-standing enclosure with built-in canopy, not overhanging, allowing the coupling of enclosures side-to-side or back-to-back.</li> <li>■ Easily removable inner hinges, allowing the door to be reversed and to open to more than 180°.</li> <li>■ Doors equipped with impressions allowing the integration of inserts for M6 screws.</li> <li>■ Closing by handle with lever and 1242 E cylindrical safety lock. Other locks optionally available (see page 202).</li> <li>■ 2-door floor-standing enclosure with central upright:               <ul style="list-style-type: none"> <li><input type="checkbox"/> central upright fixed to the enclosure and removable: one lock on each door,</li> <li><input type="checkbox"/> central upright fixed to the left door: a single lock on the right door.</li> </ul> </li> <li>■ M8 boss for installation on the lateral surfaces, inserts ref. <b>NSYTEX8</b> not supplied.</li> <li>■ M6 bosses in the roof for fixing the lighting or auxiliary equipment, inserts ref. <b>NSYTEX6</b> not supplied.</li> </ul>			
Material			Polyester reinforced with fibreglass			
Colour			RAL 7035 grey			
Ingress protection rating			IP43 according to IEC 60529 (IP54 with sealing kit, see page 202)			
Mechanical protection rating			IK10			
Installation			<ul style="list-style-type: none"> <li>■ Outdoor installation: compliant with IEC 62208</li> <li>■ Direct fixing to the floor or on a plinth, with a height of 900 mm, partially embedded</li> <li>■ Fixing points at the rear of the enclosure with:               <ul style="list-style-type: none"> <li><input type="checkbox"/> M10 inserts: for installing, direct or on insulators, distribution bars for DIN-type three-pole fuse-holder strips and for a neutral bar</li> <li><input type="checkbox"/> M6 inserts: for installing a mounting plate</li> </ul> </li> </ul>			
Height (mm)	Width (B) (mm)	Depth (mm)	Size DIN	No. of doors	No. of locks	References
850	465	320	00	1	1	<b>NSYPLD8500G</b>
850	590	320	0	1	1	<b>NSYPLD860G</b>
850	785	320	1	1	1	<b>NSYPLD881G</b>
850	1115	320	2	2	1	<b>NSYPLD8122G</b>
850	1115	320	2	2	2	<b>NSYPLD8122CG</b>

# Polyester DIN floor-standing enclosure

## Dimensions

### Floor-standing enclosures

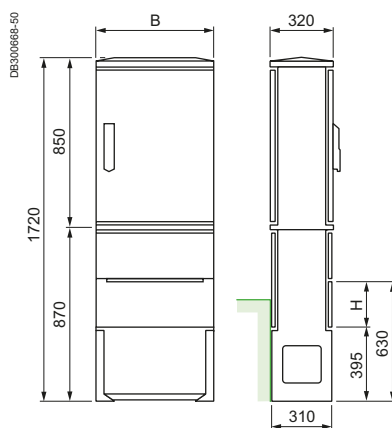


\* Bosses for M8 inserts, ref. NSYTEPLDM8 (to be ordered in multiples of 25).

B (mm)	D** (mm)	References	
465	360	Floor-standing enclosures	Plinths
590	495	NSYPLD8500G	NSYZD5300G
785	690	NSYPLD860G	NSYZD630G
850	870	NSYPLD881G	NSYZD831G
1115	1020	NSYPLD8122G	NSYZD1232G

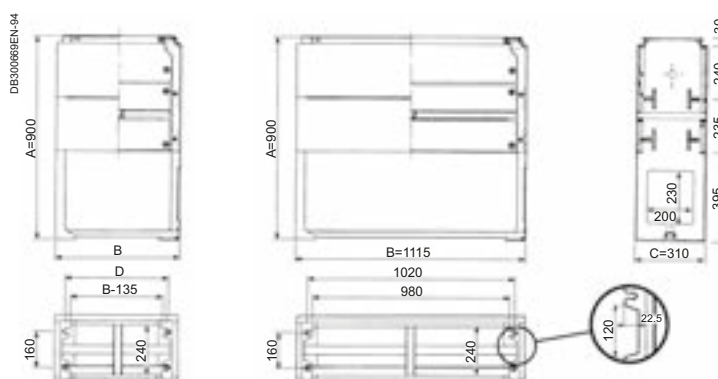
\*\* Distance between the points for fixing the enclosure to the plinth.

### Floor-standing enclosure plus plinth



The H dimension relates to the finished floor height.

### Plinths





# Polyester DIN floor-standing enclosure

## Specific accessories

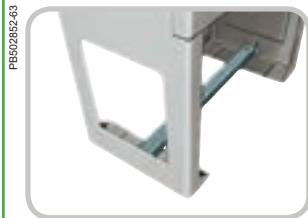
### Base accessories



Characteristics		Plinth height 900 mm	Floor-standing supports			
		<ul style="list-style-type: none"> <li>Easy machining.</li> <li>Embeddable plinth ready for direct fixing of DIN floor-standing enclosures.</li> <li>Retractable top front panel, providing easy access to the inside of the enclosure.</li> <li>On the rear panel, housings with M6 inserts, allowing the fixing of the plate, DIN rail or assorted hardware.</li> <li>Lateral uprights with knock-out auxiliary outlet with a diameter of Pg 36 (48 mm).</li> <li>Internal U- and L-shaped metal uprights, adjustable, for fixing cables.</li> <li>A knock-out zone is provided at the bottom of the lateral uprights for cable entry.</li> </ul>	Set of 2 metal supports for fixing the enclosure directly to the floor.			
Material		Polyester reinforced with fibreglass	Galvanised steel			
Colour		RAL 7035 grey	-			
<b>For floor-standing enclosure</b>			<b>Table of fixing and opening dimensions</b>			
Width (mm)	References		K	L	M	Reference
465	NSYPLD8500G	NSYZD5300G	360	320	224	NSYSPLD
590	NSYPLD860G	NSYZD630G	495	455	224	
785	NSYPLD881G	NSYZD831G	690	650	224	
1115	NSYPLD8122G and NSYPLD8122CG	NSYZD1232G	1020	980	224	



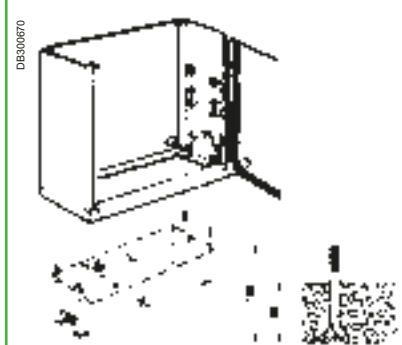
Knock-out Pg 36 auxiliary outlet.



Lateral knock-out is removed.



Removable top front panel (not hinged).



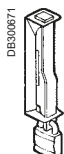
# Polyester DIN floor-standing enclosure

## Specific accessories

### Locking system



Characteristics	Locks																								
	Standard lock with retractable plastic handle and 1242 E semi-cylindrical safety lock.																								
Options	Other optional shape inserts or barrels and keys																								
Options																									
	<table border="1"> <thead> <tr> <th colspan="2">Inserts for optional change</th> </tr> <tr> <th>Name</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>5-mm double bar</td> <td>NSYTDB5ME</td> </tr> <tr> <td>6-mm male square</td> <td>NSYTC6ME</td> </tr> <tr> <td>7-mm male square</td> <td>NSYTC7ME</td> </tr> <tr> <td>8-mm male square</td> <td>NSYTC8ME</td> </tr> <tr> <td>6.5-mm male triangle</td> <td>NSYTT6ME</td> </tr> <tr> <td>8-mm male triangle</td> <td>NSYTT8ME</td> </tr> <tr> <td>Barrel and key 405</td> <td>NSYTCL405ME</td> </tr> <tr> <td>Barrel and key 1242E</td> <td>NSYTL1242EME</td> </tr> <tr> <td>Reinforced semi-cylindrical barrel and key</td> <td>NSYTLRME</td> </tr> <tr> <td>JIS key and barrel</td> <td>NSYTLJISME</td> </tr> </tbody> </table>	Inserts for optional change		Name	References	5-mm double bar	NSYTDB5ME	6-mm male square	NSYTC6ME	7-mm male square	NSYTC7ME	8-mm male square	NSYTC8ME	6.5-mm male triangle	NSYTT6ME	8-mm male triangle	NSYTT8ME	Barrel and key 405	NSYTCL405ME	Barrel and key 1242E	NSYTL1242EME	Reinforced semi-cylindrical barrel and key	NSYTLRME	JIS key and barrel	NSYTLJISME
Inserts for optional change																									
Name	References																								
5-mm double bar	NSYTDB5ME																								
6-mm male square	NSYTC6ME																								
7-mm male square	NSYTC7ME																								
8-mm male square	NSYTC8ME																								
6.5-mm male triangle	NSYTT6ME																								
8-mm male triangle	NSYTT8ME																								
Barrel and key 405	NSYTCL405ME																								
Barrel and key 1242E	NSYTL1242EME																								
Reinforced semi-cylindrical barrel and key	NSYTLRME																								
JIS key and barrel	NSYTLJISME																								



### Padlocking accessory

- **Description:** padlocking system, for Ø 9 mm padlock, preventing access to the handle.
- **Material:** stainless steel.

#### Reference

NSYBCME

### Other accessories

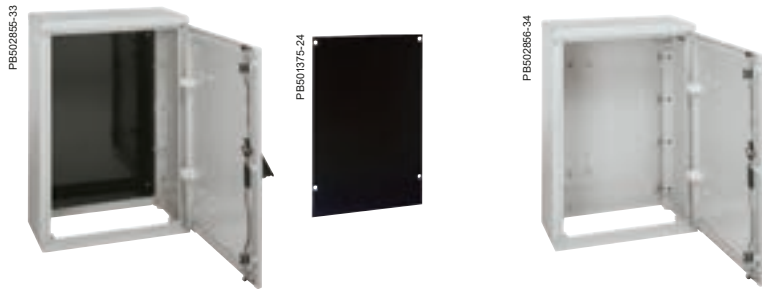


Characteristics	IP54 sealing kit	Renovation and anti-graffiti paint	
	<ul style="list-style-type: none"> <li>■ Placed directly on the door and on the rear of the enclosure.</li> <li>■ Seal made from black synthetic rubber.</li> </ul>	2-components paint system, specially formulated for polyester enclosures. Renews enclosures and allows easy removal of graffiti. Paint composed of: base (80%) and hardener (20%).	
Color	-	RAL 7035 grey	
Ingress protection rating	IP54	-	
Supply		1 kg: <input type="checkbox"/> 800 g tin of base paint <input type="checkbox"/> 200 g tin of hardener (coverage = 5 m <sup>2</sup> )	5 kg: <input type="checkbox"/> 4 kg tin of base paint <input type="checkbox"/> 1 kg tin of hardener (coverage = 25 m <sup>2</sup> )
			1 kg
			Solvent bottles to be used as a paint thinner or to clean brushes.
For floor-standing enclosure	References	References	
Width (mm)			
465	NSYJED8500	NSYAUPG1G	NSYAUPG5G
590	NSYJED860		NSYAUPGS
785	NSYJED881		
1115	NSYJED8122		

# Polyester DIN floor-standing enclosure

## Specific accessories

### Mounting accessories



Characteristics	Insulating mounting plate	Lateral uprights for busbars																				
	It is placed directly on the rear of the enclosure.	<ul style="list-style-type: none"> <li>■ They are fixed to the plinth, ref. <b>NSYZD●●●</b>.</li> <li>■ They are designed to accommodate busbars, fixed to the built-in inserts.</li> <li>■ This installation is used with a polyester DIN floor-standing enclosure previously machined to obtain a completely open bottom part. This machining is available in the customised offer.</li> <li>■ The enclosure is positioned from the top on the set made of both lateral uprights plus the plinth.</li> <li>■ The fixings supplied allow the attachment of the 2 uprights to the enclosure.</li> </ul>																				
Material	Insulating material, bakelite	Polyester reinforced with fibreglass																				
Colour	Black	RAL 7035 grey																				
Thickness	4 mm	-																				
<b>For floor-standing enclosure</b>	<table border="1"> <thead> <tr> <th>D (mm)</th> <th>E (mm)</th> <th>Maximum load (kg)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>356</td> <td>304</td> <td>19</td> <td><b>NSYAPLD85</b></td> </tr> <tr> <td>481</td> <td>429</td> <td>27</td> <td><b>NSYAPLD86</b></td> </tr> <tr> <td>676</td> <td>624</td> <td>39</td> <td><b>NSYAPLD88</b></td> </tr> <tr> <td>1115</td> <td>396.5</td> <td>2 x 24</td> <td><b>NSYAPLD812*</b></td> </tr> </tbody> </table>	D (mm)	E (mm)	Maximum load (kg)	References	356	304	19	<b>NSYAPLD85</b>	481	429	27	<b>NSYAPLD86</b>	676	624	39	<b>NSYAPLD88</b>	1115	396.5	2 x 24	<b>NSYAPLD812*</b>	<b>Reference</b>
D (mm)	E (mm)	Maximum load (kg)	References																			
356	304	19	<b>NSYAPLD85</b>																			
481	429	27	<b>NSYAPLD86</b>																			
676	624	39	<b>NSYAPLD88</b>																			
1115	396.5	2 x 24	<b>NSYAPLD812*</b>																			
<b>Width (mm)</b>																						
465			<b>NSYBPLDNG</b>																			
590																						
785																						
1115																						

\* The reference includes 2 mounting plates with the dimensions of the table.

# Accessories

# Accessories Contents

 PB500072-12	 PB500222-18	<b>Mounting</b>	<b>206</b>	
 PB500023-24	 PB500218-32	 PB500218-32	<b>Cable management</b>	<b>242</b>
	 PB501890-18	<b>Terminal blocks</b>	<b>266</b>	
 PB503389-36		<b>Lighting and power socket</b>	<b>268</b>	
	 PB500576-30	<b>Floor accessories</b>	<b>271</b>	
 PB500188-35	 PB500223-27	<b>Door accessories</b>	<b>272</b>	
 PB500084-19	 PB500217-21	<b>Other accessories</b>	<b>277</b>	

# Mounting

## Mounting plates for wall-mounting enclosures

S3D

S3X

PLM

PB500102-13



PB500100-13



PB500101-18



PB500102-18



Characteristics	Mounting plates					Telequick mounting plate**						
	Plain		Silkscreened		Microperforated**							
			Silkscreened for easier distribution of the products to be installed. Centimetric grid pattern.		They considerably reduce the products installation time thanks to the holes prepared to receive the self-tapping screws. Holes with Ø 3.6 mm in steps of 12.5 mm.	They allow cable guides and ducting and other installation accessories to be clipped on, making it easier to install switchgear. 11 x 26 mm slots. Switchgear fixing by clip-on nuts.						
Material	Galvanised-steel		Galvanised-steel		Galvanised-steel	Zinc-coated-steel						
Colour	-		-		-	-						
Maximum load	PLM: 150 kg/m <sup>2</sup> S3D, S3X, CRN, CRNG: 250 kg/m <sup>2</sup>					PLM: 150 kg/m <sup>2</sup> S3D, S3X, CRN and CRNG: 250 kg/m <sup>2</sup>						
Supply	1 mounting plate without fixing elements					1 mounting plate without fixing elements						
For enclosures (mm)	Dimensions (mm)		References		References	Dimensions (mm)		No. of perforations in		References		
	Height	Width	H	W		H	W	H	W			
200	200	150	150	NSYMM22	-	-	-	-	-	-		
	300	150	250	NSYMM23	-	-	-	-	-	-		
250	200	200	150	NSYMM2520	-	-	-	-	-	-		
	300	250	200	NSYMM3025	-	-	-	-	-	-		
	400	200	350	NSYMM2540	-	-	-	-	-	-		
500	200	200	450	NSYMM2550	-	-	-	-	-	-		
	300	200	250	150	NSYMM32	-	NSYMF32	255	153.7	16	5	NSYMR32
300	250	250	200	NSYMM3025*	-	-	-	253	228	16	8	NSYMR3025
	300	250	250	NSYMM33	-	NSYMF33	255	251	16	9	NSYMR33	
	400	250	350	NSYMM43*	NSYMS43*	NSYMF43*	255	351	18	11	NSYMR34	
	450	250	400	NSYMM3045	-	-	-	-	-	-	-	
	500	450	250	NSYMM53*	-	-	-	-	-	-	-	
	600	250	550	NSYMM36	-	-	-	-	-	-	-	
	400	300	230	350	NSYMM43*	NSYMS43	NSYMF43	348.7	251	22	9	NSYMR43
400	400	350	350	NSYMM44	NSYMS44	NSYMF44	345	351	24	11	NSYMR44	
	600	350	550	NSYMM64*	NSYMS64*	-	345	551	24	19	NSYMR46	
	800	350	750	NSYMM48	-	-	-	-	-	-	-	
500	300	450	250	NSYMM53*	NSYMS53*	NSYMF53	453.7	251	29	9	NSYMR53	
	400	450	350	NSYMM54	NSYMS54	NSYMF54	450	351	31	11	NSYMR54	
	500	450	450	NSYMM55*	NSYMS55*	NSYMF55	450	451	31	14	NSYMR55	
	600	550	450	NSYMM65	-	-	-	-	-	-	-	
600	400	550	350	NSYMM64	NSYMS64	NSYMF64*	555	351	38	11	NSYMR64	
	500	550	450	NSYMM65	-	NSYMF65	555	451	38	14	NSYMR65	
	600	550	550	NSYMM66	NSYMS66	NSYMF66	555	551	38	17	NSYMR66	
	800	-	-	-	-	-	551	750	36	24	NSYMR68	
	1000	-	-	-	-	-	-	-	-	-	-	
1200	-	-	-	-	-	-	-	-	-	-	-	
	500	650	450	NSYMM75	NSYMS75	NSYMF75	645	451	44	14	NSYMR75	
800	600	650	550	NSYMM76	-	-	645	551	44	17	NSYMR76	
	600	750	550	NSYMM86*	NSYMS86*	NSYMF86*	750	551	51	17	NSYMR86	
	800	750	750	NSYMM88	-	NSYMF88	750	751	51	24	NSYMR88	
	1000	-	-	NSYMM108	-	NSYMF108	751	951	49	31	NSYMR810	
	1200	-	-	NSYMM128	-	NSYMF128	-	-	-	-	2 x NSYMR86	
1000	600	950	550	NSYMM106	-	NSYMF106	945	551	64	17	NSYMR106	
	800	950	750	NSYMM108*	-	NSYMF108*	945	751	64	24	NSYMR108	
	1000	950	950	NSYMM1010	-	NSYMF1010	945	951	62	31	NSYMR1010	
	1200	-	-	-	-	-	951	1151	62	37	NSYMR1012	
1200	600	1150	550	NSYMM126	-	NSYMF126	1145	551	75	17	NSYMR126	
	800	1150	750	NSYMM128*	-	NSYMF128	1145	751	75	24	NSYMR128	
	1000	1150	950	NSYMM1210*	-	NSYMF1210*	1145	951	75	31	NSYMR1210	
	1200	1150	1150	NSYMM1212	-	2 x NSYMF126	-	-	-	-	2 x NSYMR126	
1400	1000	1350	950	NSYMM1410	-	-	1345	951	88	31	NSYMR1410	

\* Plate with reversible dimensions; it can be installed in enclosures with inverted dimensions.

Example: Plate ref. NSYMM64 can be used for the following enclosures: H 600 x W 400 mm or H 400 x W 600 mm.

For plain and silkscreened mounting plates: In wall-mounting enclosures with widths of 1000 and 1200 mm, it is possible to install 2 mounting plates at different depths using an additional central step slide NSYSRSDCR\*\*\* (more information on page 210).

# Mounting

## Mounting plates for wall-mounting enclosures

PB500103-11



PB500151SE-15



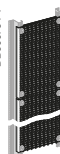
PB500104-18



Characteristics		Bakelite mounting plate**				Polyester mounting plate**				DIN-rail chassis		
		<ul style="list-style-type: none"> <li>They are coupled directly to the rear of the actual enclosure or to the sliding plate supports.</li> <li>Double-door enclosures offer the option of installing two plates.</li> </ul>								Components supplied with a DIN-rail chassis: <ul style="list-style-type: none"> <li>Aluminium uprights.</li> <li>DIN rails (symmetric section A or B, according to the reference).</li> <li>Screws, washers and nuts need to mount the DIN rails to the uprights.</li> <li>Batch of 4 adapters, ref. <b>NSYAMCSF</b>, needed to fix the uprights to the enclosure.</li> </ul>		
Material		Bakelite				Polyester reinforced with fibreglass				Aluminum and zinc-coated steel		
Colour		RAL 9005 black				RAL 7035 grey				-		
Maximum load		100 kg/m <sup>2</sup>				150 kg/m <sup>2</sup>				-		
Supply		1 mounting plate without fixing elements				1 mounting plate and fixing elements				1 DIN-rail chassis		
For enclosures (mm)		Dimensions (mm)		Thick. (mm)	References	Dimensions (mm)		Thick. (mm)	References	Type of rails	No. of rails	References
Height	Width	H (P)	W (S)			H (P)	W (S)					
300	200	265	150	4	NSYMB32	265	150	4	NSYMPP32	-	-	-
	250	265	200	4	NSYMB3025	265	200	4	NSYMPP3025	-	-	-
	300	265	250	4	NSYMB33	-	-	-	-	B	4	NSYMD33
400	300	325	250	4	NSYMB43	325	250	4	NSYMPP43	B	4	NSYMD43
500	400	465	350	4	NSYMB54	465	350	4	NSYMPP54	B	4	NSYMD54
600	400	565	350	4	NSYMB64	565	350	4	NSYMPP64	B	6	NSYMD64
	500	565	450	4	NSYMB65	-	-	-	-	-	-	-
	600	-	-	-	-	-	-	-	-	A	6	NSYMD66
700	500	665	450	4	NSYMB75	665	450	4	NSYMPP75	B	6	NSYMD75
800	600	765	550	4	NSYMB86	765	550	5	NSYMPP86	A	6	NSYMD86
	1000	-	-	-	NSYMB108	-	-	-	-	-	-	-
	1200	-	-	-	2 x NSYMB86	-	-	-	-	-	-	2 x NSYMD86
1000	600	965	550	4	NSYMB106	-	-	-	-	-	-	-
	800	965	750	4	NSYMB108	965	750	5	NSYMPP108	A	6	NSYMD108
1200	800	-	-	-	-	-	-	-	-	A	7	NSYMD128
	1000	1150	950	4	NSYMB1210	-	-	-	-	-	-	-

\*\* To install two mounting plates in a single enclosure, also order reference **NSYCRNGSDR**. See details on page 210.  
To install the plate in an enclosure with 6 studs, also order reference **NSYEMR**.

DB300754-7



Characteristics		Joinable Telequick mounting plate			
		20/10° mm Telequick mounting plates. These mounting plates are suitable for mounting vertically multiple plates. 11 x 26 mm slots. Switchgear fixing by clip-on nuts.			
Material		Zinc-coated steel			
Supply		1 mounting plate and fixing elements			
For enclosures (mm)		Dimensions (mm)		References	
Height	Width	H	W		
60	700	120	734	AM1PA0670	
120	700	180	734	AM1PA1270	
300	150	349	228	AM1PA3015	
	195	349	258	AM1PA3020	
	500	360	534	AM1PA3050	
	700	360	734	AM1PA3070	
405	300	465	334	AM1PA4030	
600	400	660	434	AM1PA6040	
	500	660	534	AM1PA6050	
	600	660	634	AM1PA6060	
	700	660	734	AM1PA6070	
705	500	765	534	AM1PA7050	
795	600	855	634	AM1PA8060	
900	500	960	534	AM1PA9050	
	600	960	634	AM1PA9060	
	700	960	734	AM1PA9070	

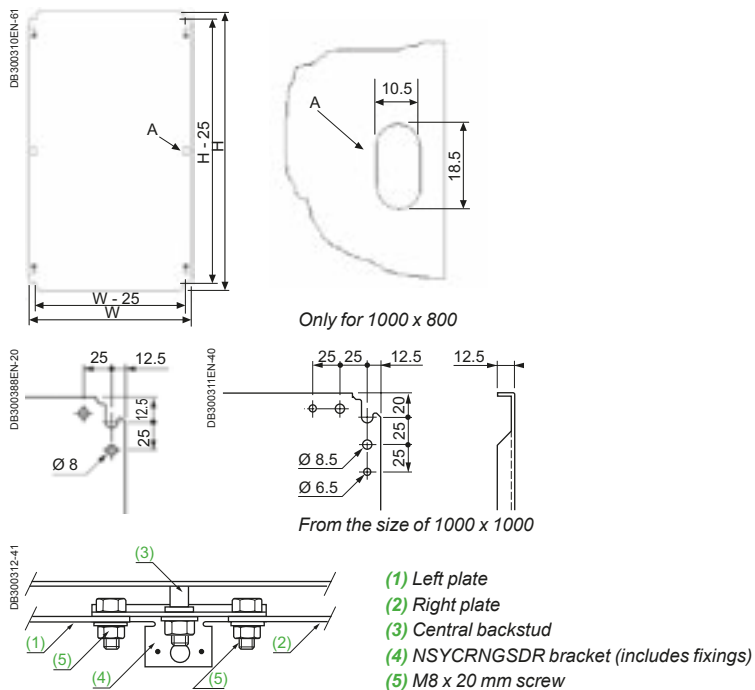
# Mounting

## Mounting plates for wall-mounting enclosures

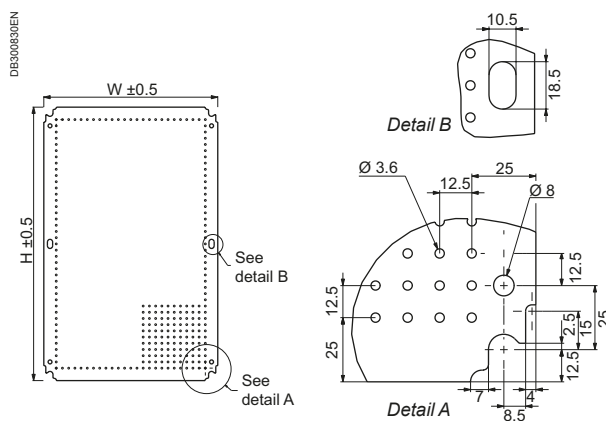
S3D S3X PLM

### Dimensions

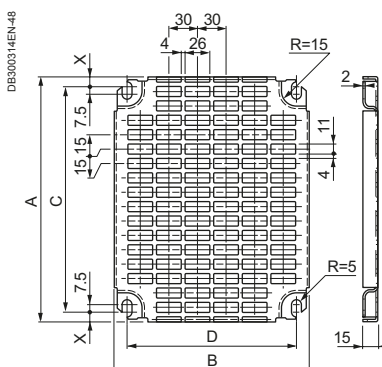
#### Plain and silkscreened mounting plates



#### Microperforated mounting plate



#### Telequick mounting plate





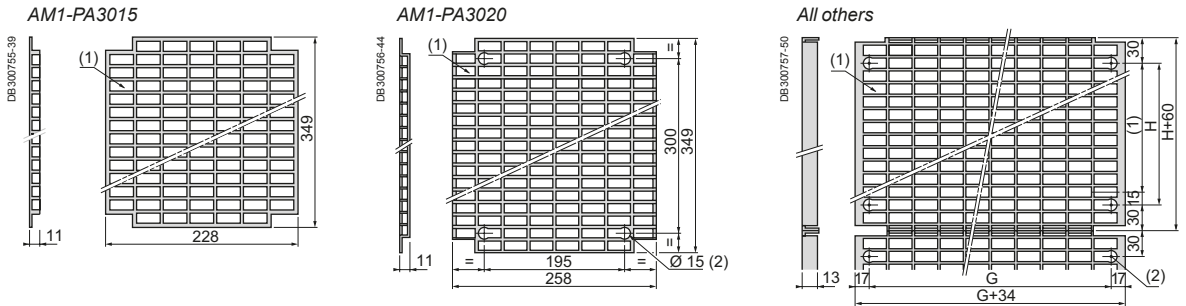
# Mounting

## Mounting plates for wall-mounting enclosures

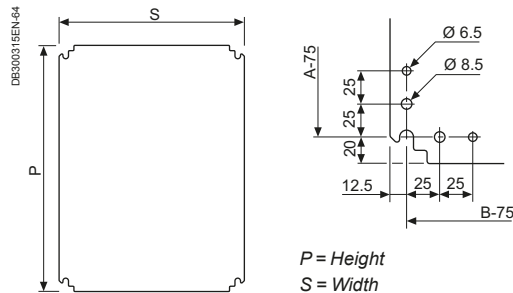
S3D S3X PLM

### Dimensions

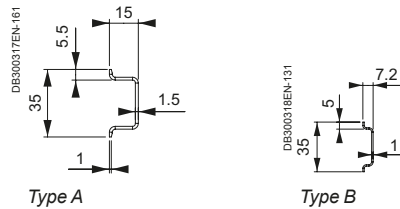
#### Joinable Telequick mounting plate



#### Bakelite and polyester mounting plate



#### DIN-rail chassis



### Mounting plate accessories



Characteristics	Elevator for microperforated mounting plate	Clip-on nuts for Telequick mounting plate
	Mounting plate elevator to mount the Microperforated mounting plate at the same level as the other Telequick system components.	Used to easily fix devices in the Telequick mounting plate with the possibility of changing the lay-out as much as needed.
Supply	4 units	100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...)
	<b>Reference</b> AZ1CA04	<b>Model</b> M3 M4 M5 M6
		<b>References</b> AF1EA3 AF1EA4 AF1EA5 AF1EA6

# Mounting

## Step slides for wall-mounting enclosures

S3D S3X



Characteristics	Step slides for mounting plate	Step slides for 2 mounting plates in one enclosure	Slide bracket for 2 mounting plates at different depths
	Set of 4 supports intended for installation in enclosures with depths of 200, 250, 300 and 400 mm. The rail allows the depth of the plate and other accessories to be adjusted in steps of 12.5 mm.	In 1000 and 1200 mm wall-mounting enclosures, it is possible to install 2 mounting plates side by side, using the additional central step slides.	Additional slide bracket to be installed on the central step slides in order to mount 2 mounting plates, side by side, in different depths.
Supply	4 step slides	2 step slides	2 slide brackets
For enclosure	<b>References</b>		
Depth (mm)			
200	<b>NSYSDCR200</b>	-	<b>NSYCRNGSDR</b>
250	<b>NSYSDCR250</b>	-	
300	<b>NSYSDCR300</b>	<b>NSYSDRSDCR300*</b>	
400	<b>NSYSDCR400</b>	<b>NSYSDRSDCR400*</b>	
	 	 <ul style="list-style-type: none"> <li>(1) Left plate</li> <li>(2) Right plate</li> <li>(3) Central backstud</li> <li>(4) NSYCRNGSDR bracket (includes fixings)</li> <li>(5) NSYSDRSDCR slide bracket</li> <li>(6) M8 x 20 mm screw</li> </ul>	 

\* Not applicable for stainless steel enclosures.

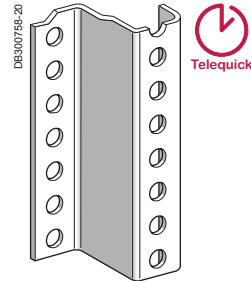
# Mounting

## Vertical rails for wall-mounting enclosures

S3D S3X PLM PLA



S3D S3X PLM



Characteristics	Aluminium vertical rails			20/10° mm zinc-coated pre-drilled uprights	
Supply	Fixing in the enclosure with M8 nuts, ref. <b>NSYAMCSF</b> (batch of 4 adapters to be ordered separately).			Ø 11 mm holes enable to adjust the rows of equipment by 20 mm steps.	
Height (a) (mm)	Material	Supply (units)	References	Weight (g)	References
300	Aluminium	10	<b>NSYMDVR3</b>	-	-
400	Aluminium	10	<b>NSYMDVR4</b>	-	-
500	Aluminium	10	<b>NSYMDVR5</b>	-	-
600	Aluminium	10	<b>NSYMDVR6</b>	-	-
700	Aluminium	10	<b>NSYMDVR7</b>	-	-
800	Aluminium	10	<b>NSYMDVR8</b>	-	-
1000	Aluminium	10	<b>NSYMDVR10</b>	-	-
1020	-	-	-	2330	<b>DZ6MZ121</b>
1200	Steel	2	<b>NSYMDVR12</b>	-	-
1320	-	-	-	2920	<b>DZ6MZ151</b>
1620	-	-	-	3375	<b>DZ6MZ181</b>
1920	-	-	-	4000	<b>DZ6MZ211</b>
3000 (3 m)	Aluminium	10	<b>NSYMDVR3M</b>	-	-

### Sliding Nuts

Sliding nuts to be used on aluminium vertical rails.

Type	Supply (units)	References
M4	100	<b>NSYNM4</b>
M5	100	<b>NSYNM5</b>
M6	100	<b>NSYNM6</b>

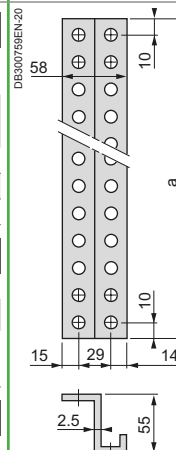
### Brass nuts to fix the upright to the enclosures

Supply: 4.  
Reference: **NSYAMCSF**

### Slides and brackets

They allow the depth of the plates and rails to be adjusted.  
Supply: 10 units. References per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).

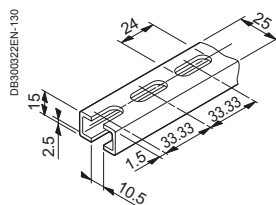
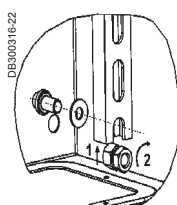
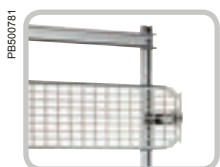
Type	References
90-mm slide with bracket for enclosures with depths of 150 and 200 mm	<b>NSYSB90</b>
130-mm slide with bracket for enclosures with depths of 250 and 300 mm	<b>NSYSB130</b>
Bracket for slides (customised mounting plate)	<b>NSYFB</b>



### Notched clamp nuts

Specially designed for pre-drilled uprights.  
Supply: 100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...).

Type	Weight (g)	References
M6	7.0	<b>DZ5MF6</b>
M8	8.0	<b>DZ5MF8</b>



Ref. **NSYAMCSF**

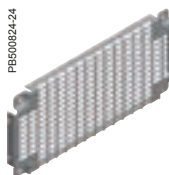
# Mounting

## Mounting plates for floor-standing enclosures

PB500A77-12



PB500B24-24



PB500B07-24



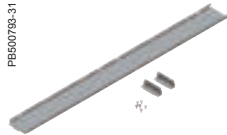
Characteristics	Plain mounting plate		Perforated mounting plate Telequick					Partial mounting plate				
	<ul style="list-style-type: none"> <li>Depth adjustable with a pitch of 25 mm, provided with plastic shoe for easier sliding.</li> <li>Once the plate is fixed, in advanced position, the sliding shoe can be easily removed, to increase the available plate surface.</li> <li>In sets made up of two or more enclosures with mounting plates, it is possible to obtain a continuous plate surface using intermediate mounting plates (see page 213).</li> <li>Load: 300 kg/ m<sup>2</sup></li> </ul>		<ul style="list-style-type: none"> <li>Allows the installation of switchgear without drilling or screwing.</li> <li>Plate designed for quick fixing of switchgear by means of clip-on nuts ref. <b>AF1EA3</b> to <b>AF1EA6</b>.</li> <li>Vertical continuity is guaranteed by the vertical installation of plates.</li> <li>The top plate must be fixed in the third hole, 80 mm from the top frame.</li> <li>Load: 150 kg/m<sup>2</sup></li> </ul>					<ul style="list-style-type: none"> <li>Partial mounting plate, provided with reinforcement flange on its four sides.</li> <li>Load: 250 kg/m<sup>2</sup></li> </ul>				
Material	Galvanised steel		Zinc-coated steel					Galvanised steel				
Fixing	Fixing options: <ul style="list-style-type: none"> <li>At the sides of the enclosure with the orthogonal brackets (see page 215)</li> <li>Back-to-back, with the brackets for fixing the mounting plates in back-to-back position (see page 216)</li> </ul>		Fixing options: <ul style="list-style-type: none"> <li>Directly to the vertical uprights of the structure, by means of self-tapping screws (only Spacial SF)</li> <li>To the technical vertical uprights, by means of sliding nuts, page 219; to standard uprights by means of flat nuts, page 219 or self-tapping screws, and to cross rails</li> </ul>					Fixing options: <ul style="list-style-type: none"> <li><b>Spacial SF, SFX:</b> <ul style="list-style-type: none"> <li>Fixing to the vertical uprights of the structure</li> <li>Fixing to the technical or standard vertical uprights, see page 219</li> <li>For installations in advanced position, fixing to cross-rails, see page 223</li> </ul> </li> <li><b>Spacial SM:</b> <ul style="list-style-type: none"> <li>Fixing by means of adaptation profiles and 40-mm universal cross-rails (1 row) in vertical position, or also on horizontal universal cross-rails</li> <li>It can be mounted horizontally, as a tray, by means of depthwise cross rails, see page 223</li> </ul> </li> </ul>				
Maximum load	600 kg in the back of the enclosure and 500 kg in the intermediate position		-					-				
Supply	One mounting plate and sliding shoes		One perforated mounting plate and fixing elements for technical uprights and screws for fixing to the structure or cross rails					Partial mounting plate and fixing elements				
Dimensions (mm)	Dimensions (mm)	References	Plate height (mm)				Useful surface (dm <sup>2</sup> )	References	Plate height (mm)	Plate length (mm)	References	
	Height (A)		D	E	F	G			H	B-100		
400	1200	<b>NSYMP124</b>	-						247	300	<b>NSYSPMP2540</b>	
<b>New</b>	1400	<b>NSYMP144</b>	-						397	300	<b>NSYSPMP4040</b>	
	1600	<b>NSYMP164</b>	-						597	300	<b>NSYSPMP6040</b>	
	1800	<b>NSYMP184</b>	-									
	2000	<b>NSYMP204</b>	-									
	2200	<b>NSYMP224</b>	-									
600	1200	<b>NSYMP126</b>	450	200	-	100	11.4	<b>NSYSTMP2260</b>	247	500	<b>NSYSPMP2560</b>	
	1400	<b>NSYMP146</b>	450	425	-	325	22.8	<b>NSYSTMP4560</b>	247	750	<b>NSYSPMP2575</b>	
	1600	<b>NSYMP166</b>	450	575	125	475	30.4	<b>NSYSTMP6060</b>	397	500	<b>NSYSPMP4060</b>	
	1800	<b>NSYMP186</b>	450	800	250	700	11.9	<b>NSYSTMP8260</b>	597	500	<b>NSYSPMP6060</b>	
	2000	<b>NSYMP206</b>	-									
	2200	<b>NSYMP226</b>	-									
800	1200	<b>NSYMP128</b>	650	200	-	100	15.9	<b>NSYSTMP2280</b>	247	700	<b>NSYSPMP2580</b>	
	1400	<b>NSYMP148</b>	650	425	-	325	31.8	<b>NSYSTMP4580</b>	397	700	<b>NSYSPMP4080</b>	
	1600	<b>NSYMP168</b>	650	575	125	475	42.4	<b>NSYSTMP6080</b>	597	700	<b>NSYSPMP6080</b>	
	1800	<b>NSYMP188</b>	650	800	250	700	58.4	<b>NSYSTMP8280</b>				
	2000	<b>NSYMP208</b>	-									
	2200	<b>NSYMP228</b>	-									
1000	1200	<b>NSYMP1210</b>	850	200	-	100	20.4	<b>NSYSTMP22100</b>	247	900	<b>NSYSPMP25100</b>	
	1400	<b>NSYMP1410</b>	850	425	-	325	40.8	<b>NSYSTMP45100</b>	397	900	<b>NSYSPMP40100</b>	
	1600	<b>NSYMP1610</b>	850	575	125	475	54.4	<b>NSYSTMP60100</b>	597	900	<b>NSYSPMP60100</b>	
	1800	<b>NSYMP1810</b>	850	800	250	700	74.9	<b>NSYSTMP82100</b>				
	2000	<b>NSYMP2010</b>	-									
	2200	<b>NSYMP2210</b>	-									
1200	1200	<b>NSYMP1212</b>	1050	200	-	100	24.9	<b>NSYSTMP22120</b>	247	1100	<b>NSYSPMP25120</b>	
	1400	<b>NSYMP1412</b>	1050	425	-	325	49.9	<b>NSYSTMP45120</b>	397	1100	<b>NSYSPMP40120</b>	
	1600	<b>NSYMP1612</b>	1050	575	125	475	66.5	<b>NSYSTMP60120</b>	597	1100	<b>NSYSPMP60120</b>	
	1800	<b>NSYMP1812</b>	1050	800	250	700	91.5	<b>NSYSTMP82120</b>				
	2000	<b>NSYMP2012</b>	-									
	2200	<b>NSYMP2212</b>	-									
1600	1800	<b>NSYMP1816</b>	Order two 800-mm plates							397	1100	<b>NSYSPMP40160</b>
	2000	<b>NSYMP2016</b>	-									

# Mounting

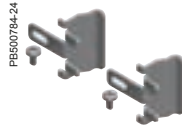
## Mounting plates for floor-standing enclosures



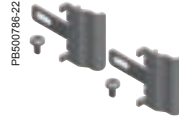
PB500783-31



PB500784-24



PB500786-22

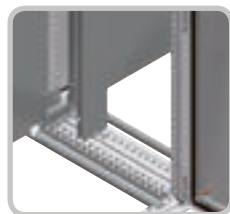


PB500788-29

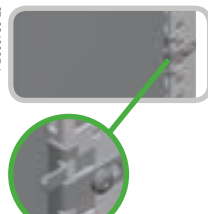


Characteristics	Intermediate mounting plate	Intermediate fixing of the mounting plate, located in the back of the enclosure	Intermediate fixing of the mounting plate, in advanced position	Reinforcement for mounting plate
	<ul style="list-style-type: none"> <li>Obtains a continuous surface of the mounting plate at enclosure suites.</li> <li>Adjustable depth with a pitch of 25 mm. When the mounting plates are located in the back of the enclosure, the vertical profiles of the structure are flush with the plates, acting as an intermediate mounting plate. In this case the intermediate plate cannot be installed.</li> </ul>	<ul style="list-style-type: none"> <li>Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in the back of the enclosure.</li> <li>The supports minimise the vibration of the plate during the transport and operation of the panel.</li> </ul>	<ul style="list-style-type: none"> <li>Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in advanced position.</li> <li>The supports minimise the vibration of the plate during the transport and operation of the panel.</li> </ul>	<ul style="list-style-type: none"> <li>Reinforcement kit for transversal mounting plate.</li> <li>Provides extra rigidity to the mounting plates and absorbs vibrations.</li> <li>Can be used as a reinforcement to give more robustness.</li> </ul>
Material	Galvanised steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel
Thickness	-	-	-	15/10° mm
Fixing	-	<ul style="list-style-type: none"> <li>The supports are fixed to the structure when the plate is already located in the back of the enclosure</li> <li><b>Spacial SM:</b> fixing to 40-mm universal cross rails (1 row), installed vertically in the back of the enclosure, see page 223</li> </ul>	The supports are mounted on light cross rails or on 40-mm (1 row) universal or quick-fixing cross rails (not supplied), see page 223	-
Supply	One intermediate plate and fixing elements	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	Two profiles, four supports for fixing to the mounting plate and fixing elements
Dimensions (mm)		References		
Height (A)	Width (B)			
1200	-	<b>NSYSIMP12</b>	<b>NSYSMPFB</b>	<b>NSYSMPFA</b>
1400	-	<b>NSYSIMP14</b>		
1600	-	<b>NSYSIMP16</b>		
1800	-	<b>NSYSIMP18</b>		
2000	-	<b>NSYSIMP20</b>		
2200	-	<b>NSYSIMP22</b>		
-	800	-		<b>NSYMPRK8</b>
-	1000	-		<b>NSYMPRK10</b>
-	1200	-		<b>NSYMPRK12</b>
-	1600	-		<b>NSYMPRK16</b>

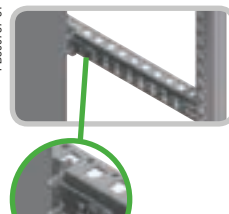
PB500794-33



PB500785-26



PB500787-34



## Mounting plate accessories

### Self-tapping screw

PB500808



- Hexagonal head, 4.8 x 16 mm thread. Drilling capacity: thicknesses between 17.5/10° and 40/10° mm.
- Supply:** 100 units. To be ordered in multiples of 100 (100, 200, 300, etc.).

### Reference

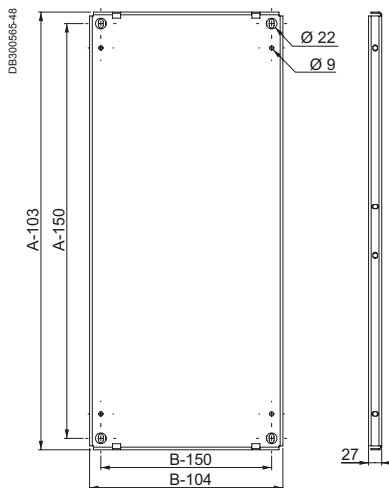
**NSYS16M5HS**

# Mounting

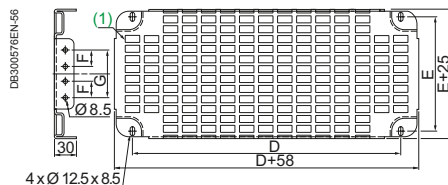
## Mounting plates for floor-standing enclosures

### Dimensions

#### Plain mounting plate



#### Perforated mounting plate Telequick



(1) Cut-outs 11 x 26 with a pitch of 15 x 30.



#### Examples of perforated mounting plate installation

PB500825-19



Perforated plate mounted on structure.

PB500826-23



Perforated plate mounted on technical vertical uprights.

PB500827-23



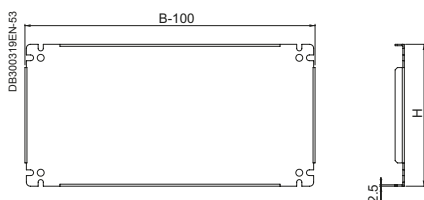
Perforated plate mounted on standard vertical uprights.

PB500828-22

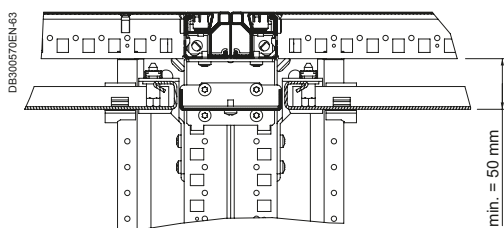


Perforated plate mounted on cross rails.

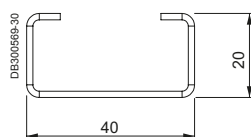
#### Partial mounting plate



#### Intermediate mounting plate

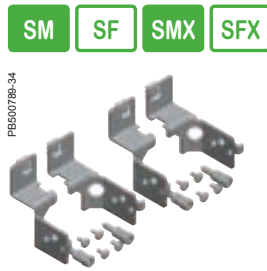


#### Reinforcement for mounting plate

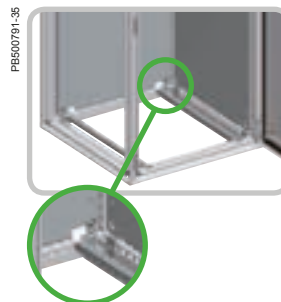


# Mounting

## Mounting plate brackets for floor-standing enclosures



Characteristics	Mounting plate fixing brackets	Orthogonal brackets
	<ul style="list-style-type: none"> <li>For direct mounting on the structure of the enclosure.</li> <li>Adjustable depth with a pitch of 25 mm.</li> </ul>	<ul style="list-style-type: none"> <li>Designed for the installation of mounting plates on the sides of the enclosure.</li> <li>In the event of installing one plate in the back of the enclosure and one plate at the side, they must both be installed using orthogonal brackets.</li> <li><b>Spacial SFX:</b> in order to mount the lateral mounting plate is necessary to remove the one on the back and its fixing brackets.</li> </ul>
Material	Zinc-coated steel	Zinc-coated steel
Maximum load	4 brackets: 600 kg	4 brackets: 600 kg
Supply	Four brackets and fixing elements	Four brackets and fixing elements
<b>References</b>		
	Spacial SF	Spacial SM, Spacial SFX, Spacial SMX
	NSYSFPB	NSYSMPB
		NSYSMPB



# Mounting

## Mounting plate brackets for floor-standing enclosures

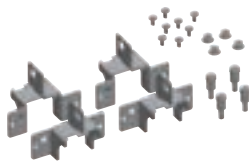
SF

PB502804-48



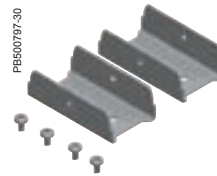
SF

PB500795-34



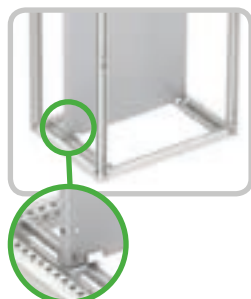
SF SFX

PB500797-30

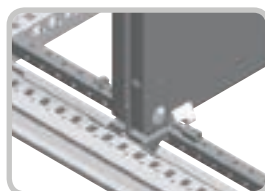


Characteristics	Mounting plate sliding rails	Brackets for fixing mounting plates in back-to-back position	Brackets for fixing intermediate mounting plates in back-to-back position
	<ul style="list-style-type: none"> <li>■ Rails which the mounting plate slides along when inserted in the enclosure.</li> <li>■ Once the mounting plate is installed and fixed to the brackets, the sliding rails can be removed to maximise the cable passage surface, and can be installed depthwise in other positions.</li> </ul>	<ul style="list-style-type: none"> <li>■ Doubling the mounting surface.</li> <li>■ Adjustable with a pitch of 25 mm.</li> </ul>	<ul style="list-style-type: none"> <li>■ Doubling the mounting surface.</li> <li>■ Adjustable with a pitch of 25 mm.</li> </ul>
Material	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel
Supply	Two rails and fixing elements	Four brackets for fixing back-to-back and fixing elements	2 brackets for fixing intermediate plates back-to-back and fixing elements
<b>References</b>			
	Depth (mm)		
	400	NSYSMPS4	NSYSBTB
	500	NSYSMPS5	
	600	NSYSMPS6	
	800	NSYSMPS8	NSYSIBTB
		<p>C: Enclosure depth.</p>	<p>C: Enclosure depth.</p>

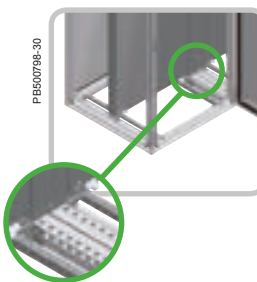
PB502803-32



PB500796-37



PB500798-30



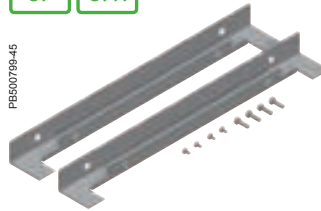


# Mounting

## Mounting rails for floor-standing enclosures

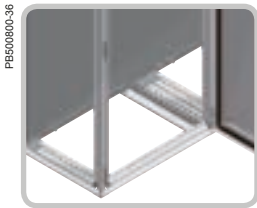
New

SF SFX



PBS00799-45

Characteristics	Side entry rails for mounting plates
	<ul style="list-style-type: none"> <li>Side entry device for the mounting plates when coupling <b>Spacial SF</b> enclosures or <b>Spacial SFX</b>.</li> <li>The mounting plates can be coupled with one another, and are fixed to the side entry guide by pressure.</li> </ul>
Material	Zinc-coated steel
Supply	Two rails (top and bottom) and fixing elements
<b>Dimensions (mm)</b>	<b>References</b>
<b>Width (B)</b>	
600	<b>NSYSMPSE6</b>
800	<b>NSYSMPSE8</b>
1000	<b>NSYSMPSE10</b>
1200	<b>NSYSMPSE12</b>



PBS00800-38

## Extra large mounting plate

New

Characteristics	Extra large mounting plates	
	<ul style="list-style-type: none"> <li>Mounting plates for the side entry device when coupling <b>Spacial SF</b> enclosures or <b>Spacial SFX</b>.</li> <li>Mounting plates can be coupled with one another, and are fixed to the side entry guide by pressure.</li> </ul>	
Material	Galvanised steel	
Supply	One mounting plate and fixing elements	
<b>Dimensions (mm)</b>	<b>References</b>	
<b>Height</b>	<b>Width</b>	
1800	600	<b>NSYMP186L</b>
	800	<b>NSYMP188L</b>
	1000	<b>NSYMP1810L</b>
	1200	<b>NSYMP1812L</b>
2000	600	<b>NSYMP206L</b>
	800	<b>NSYMP208L</b>
	1000	<b>NSYMP2010L</b>
	1200	<b>NSYMP2012L</b>
2200	600	<b>NSYMP226L</b>
	800	<b>NSYMP228L</b>
	1000	<b>NSYMP2210L</b>
	1200	<b>NSYMP2212L</b>

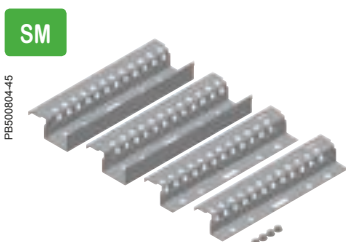
## Mounting plates

New

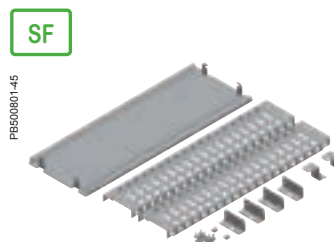
Characteristics	Mounting plates 400	Partial mounting plates 400
	<ul style="list-style-type: none"> <li>Mounting plates for the side entry device when coupling <b>Spacial SF</b> enclosures or <b>Spacial SFX</b>.</li> <li>Solution for enclosures of width and depth of 400.</li> </ul>	
Material	Galvanised steel	
Supply	One mounting plate and fixing elements	
<b>Dimensions (mm)</b>	<b>References</b>	
<b>Height</b>		
250	-	<b>NSYSPMP2540</b>
400	-	<b>NSYSPMP4040</b>
600	-	<b>NSYSPMP6040</b>
1200	<b>NSYMP124</b>	-
1400	<b>NSYMP144</b>	-
1600	<b>NSYMP164</b>	-
1800	<b>NSYMP184</b>	-
2000	<b>NSYMP204</b>	-
2200	<b>NSYMP224</b>	-

# Mounting

## Mounting rails for floor-standing enclosures



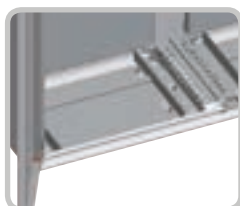
PB500804-45



PB500801-45

Characteristics	Top/bottom adjustment rails	Kit for adapting two-door enclosures
	<ul style="list-style-type: none"> <li>Allows the installation of two mounting plates or vertical uprights in enclosures with a width of 1200 mm, as if in two independent enclosures.</li> <li>A set of mounting plate fixing brackets ref. <b>NSYSMPB</b> is required for this.</li> <li>Optional installation of an intermediate mounting plate.</li> </ul>	<ul style="list-style-type: none"> <li>Allows the installation of two mounting plates as if in two independent enclosures.</li> <li>A set of brackets for fixing mounting plates ref. <b>NSYSMPB</b> is required for this.</li> <li>Option of installing an intermediate mounting plate.</li> <li>Valid for enclosures with widths of 1200 and 1600 mm.</li> <li>In the event of installing a cable-gland plate for a width of 1200 mm, it is necessary to install two with a width of 600 mm, and for widths of 1600 mm, two with a width of 800 mm.</li> </ul>
Material	Galvanised steel	Galvanised steel
Supply	2 rails, top and bottom, and fixing elements	Two 90 mm cross rails, cable-gland plate support, 2 brackets for central fixing of the roof and fixing elements
Dimensions (mm)	References	
Depth (C)		
300	<b>NSYSTBR3</b>	-
400	<b>NSYSTBR4</b>	<b>NSYSMP2D4</b>
500	<b>NSYSTBR5</b>	<b>NSYSMP2D5</b>
600	<b>NSYSTBR6</b>	<b>NSYSMP2D6</b>
800	-	<b>NSYSMP2D8</b>

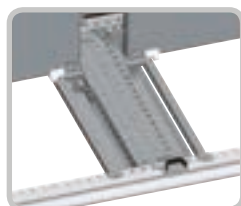
PB500805-75



PB500808-75



PB500802-36



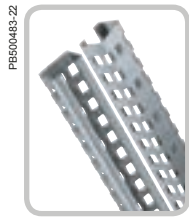
PB500803-34



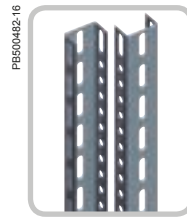
### ★ Examples of combination

Length of joined Spatial SF enclosures (mm)	Example of Spatial SF enclosure combination width (mm) (B)	Example of combined mounting plates by width (mm)	Useful length (mm)
1200	1200	600 + 800	1192
1400	600 + 800	600 + 1000	1392
1600	2 x 800	800 + 1000	1592
1800	3 x 600	800 + 1200	1792
2000	2 x 1000	1000 + 1200	1992
2200	600 + 2 x 800	1200 + 1200	2192
2400	3 x 800	1600 + 1000	2392
		3 x 600 + 1000	2384
2600	2 x 1000 + 600	1600 + 1200	2592
		3 x 600 + 1200	2584
2800	2 x 1000 + 800	4 x 800	2784
3000	3 x 1000	3 x 800 + 1000	2984
3200	2 x 1000 + 1200	3 x 800 + 1200	3184
3400	3 x 800 + 1000	800 + 3 x 1000	3384
3600	3 x 1200	4 x 1000	3584
3800	800 + 3 x 1000	600 + 3 x 1200	3784
4000	4 x 1000	800 + 3 x 1200	3984

# Mounting Uprights for floor-standing enclosures

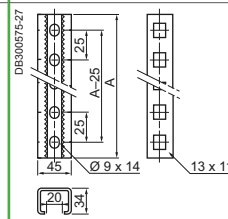


- SM
- SF
- SD
- SMX
- SFX
- SDX
- PLA
- PHD



- SM
- SF
- SMX
- SFX

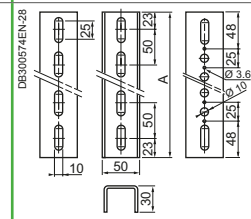
Characteristics	Technical uprights	Standard uprights
	<ul style="list-style-type: none"> <li>■ Vertical uprights for fixing plates and rails.</li> <li>■ They can be fixed to the fixing brackets of the mounting plate or to the uprightfixing bracket (ref. <b>NSYMF</b>).</li> <li>■ Adjustable height in steps of 2.5 mm (with quarter-turn nuts, ref. <b>NSYSNM6</b> or <b>NSYSNM8</b>) or 25 mm (with cage nuts, ref. <b>NSYCNM6</b> or <b>NSYCNM8</b>).</li> </ul>	<ul style="list-style-type: none"> <li>■ Vertical uprights for fixing plates and rails.</li> <li>■ They can be fixed on the mounting plate fixing brackets or on the upright fixing bracket, ref. <b>NSYMF</b>.</li> <li>■ Adjustable height with a pitch of 25 or 50 mm.</li> </ul>
Material	Galvanised steel	Galvanised steel
Thickness	20/10* mm	20/10* mm
Supply	Set of 2 uprights	Set of 2 uprights
Enclosure dimensions (mm)	Dimensions (mm)	References
Height	A	References
750	625	<b>NSYTVR7</b>
1000*	675	<b>NSYTVR8</b>
1000	875	<b>NSYTVR10</b>
1200	1075	<b>NSYTVR12</b>
1250	1125	<b>NSYTVR125</b>
1400	1275	<b>NSYTVR14</b>
1500	1375	<b>NSYTVR15</b>
1600	1475	<b>NSYTVR16</b>
1800	1675	<b>NSYTVR18</b>
2000	1875	<b>NSYTVR20**</b>
2200	2075	<b>NSYTVR22</b>



### Nuts and screws for technical uprights



Model	Supply (units)	References
M6 quarter-turn sliding nut (1)	10	<b>NSYSNM6</b>
M8 quarter-turn sliding nut (1)	10	<b>NSYSNM8</b>
M6 quarter-turn serrated sliding nut (2)	10	<b>NSYSNSM6</b>
M8 quarter-turn serrated sliding nut (2)	10	<b>NSYSNSM8</b>
M6 removable nut (3)	50	<b>NSYCNM6</b>
M8 removable nut (3)	50	<b>NSYCNM8</b>
M6 x 12 screw	100	<b>AF1VA612</b>
M6 x 18 screw	100	<b>AF1VA618</b>
M8 x 20 screw	100	<b>AF1VC820</b>



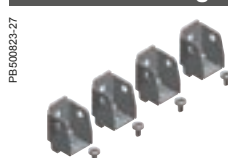
### Nuts and screws for standard uprights



Model	Supply (units)	References
M6 flat nut	50	<b>NSYFNM6</b>
M8 flat nut	50	<b>NSYFNM8</b>
M6 x 12 screw	100	<b>AF1VA612</b>
M6 x 18 screw	100	<b>AF1VA618</b>
M8 x 20 screw	100	<b>AF1VC820</b>

\* Control desk.  
 \*\* Not compatible with PLA or PHD 2000 mm high enclosures. Use 2 x NSYTVR10.

### Bracket for fixing uprights



- Brackets for fixing the uprights, standard or technical, at the same level as the structure, obtaining a greater working surface inside the enclosure.
- They allow two pairs of uprights to be fixed back to back, doubling the working surface.
- The brackets are fixed to the structure by means of M6 self-tapping screws.
- Adjustable depth with a pitch of 25 mm.
- **Material:** zinc-coated steel.
- **Supply:** four brackets for fixing uprights and fixing elements.

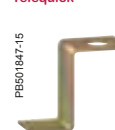
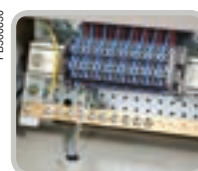
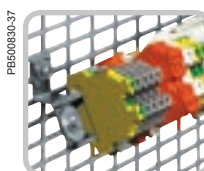
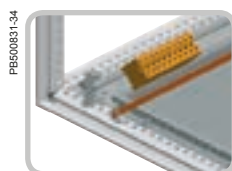
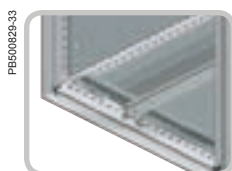
**Reference**  
**NSYMF**

# Mounting

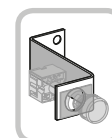
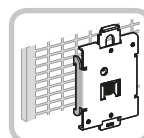
## Other support brackets



Characteristics	Rail support bracket	Combined support bracket	Terminal-block support bracket	Combined fixing lugs for the earthing strip	Combined support bracket (vertical)
	Bracket for fixing rails at an angle of 45°.	Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.	<ul style="list-style-type: none"> <li>They allow the mounting of a DIN rail.</li> <li>Tilted to 45°.</li> </ul>	<ul style="list-style-type: none"> <li>They allow the mounting of an earth-collector rail and a DIN rail.</li> <li>Tilted to 30°.</li> <li>Earthing strip, ref. <b>NSYECB1M153</b>. See page 277.</li> </ul>	Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.
Material	Zinc-coated steel	Zinc-coated steel	Treated steel	-	Zinc-coated steel
Installation	<ul style="list-style-type: none"> <li><b>Spacial SF</b>: mounted on the structure and/or mounting plates</li> <li><b>Spacial SM</b>: mounted on the bottom mounting rail and/or mounting plates</li> </ul>	<ul style="list-style-type: none"> <li><b>Spacial SF</b>: directly on the structure and/or using mounting plates</li> <li><b>Spacial SM</b>: on the bottom adjustment rails and/or on mounting plates</li> </ul>	-	To be fixed on mounting plate.	<b>Spacial SF/SM</b> : directly on the vertical structure and/or using mounting plates
Supply	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	Ten combined support brackets and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	2 lugs and fixings	2 fixing lugs and fixing elements	10 brackets
<b>References</b>	<b>NSYFB45</b>	<b>NSYETF</b>	<b>NSYEDCO</b>	<b>NSYEDCOC</b>	<b>DZ5MS10</b>



Characteristics	Clicked support plate	Bracket for fixing control units (Ø 22)
	For screw mounted equipment. For mounting on 35 mm symmetric and double profile DIN rails or Telequick mounting plate.	To mount any 22 mm diameter device directly on mounting plates.
Material	Zinc-plate coated	-
Installation	-	-
Supply	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)
<b>References</b>	<b>A (mm)</b>	
	44 x 65 - 9 screws	<b>AX2DL01</b>
	49 x 65 - 4 screws	<b>AX2DL02</b>
		<b>DX1AP52</b>

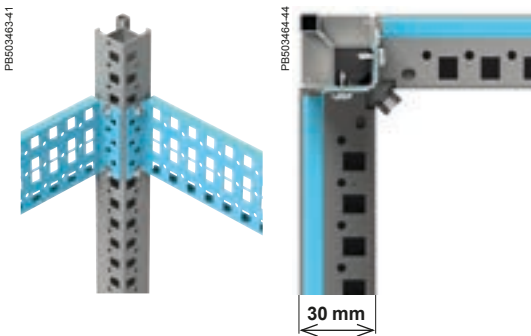


# Mounting

## Cross rails for floor-standing enclosures overview



New



Integrated cross-rails enable 30mm space saving

In the **Spacial SF, SM, SFX** and **SMX** enclosures, it is possible to create a fixing at any point of the inner volume, providing mounting planes with different widths, heights and depths.

In the case of the **Spacial SM**, it may be necessary to install vertical/horizontal adaptation profiles and 40-mm universal cross rails (1 row).

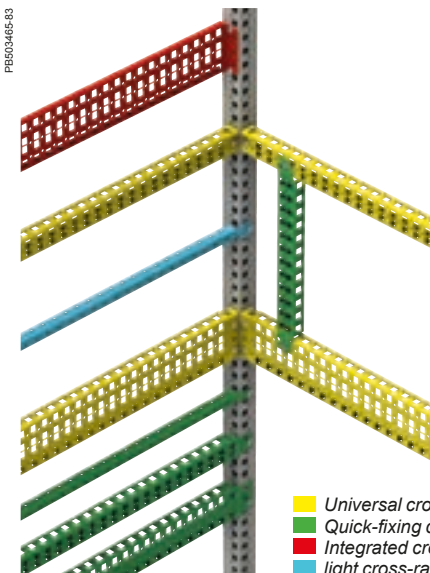
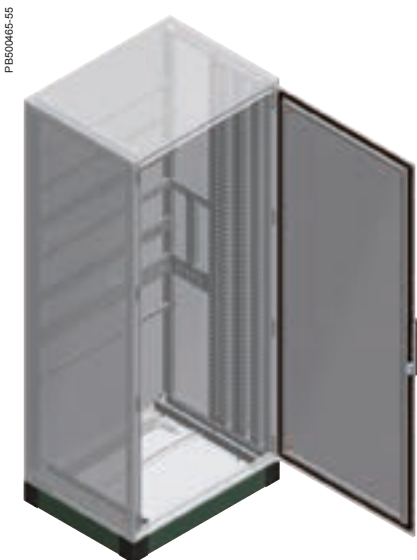
Four types of cross-rails are available to create fixing points:

- Universal cross-rails (page 223);
- Quick-fixing cross-rails (page 223);
- Integrated cross-rails (page 224) **New**;
- light cross-rails (page 225).

Universal, quick-fixing and integrated cross-rails are available in 3 sizes: 40 mm (1 row), 65 mm (2 rows) et 90 mm (3 rows).

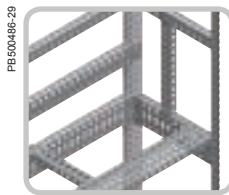
Cross-rails for specific applications are also available:

- Cross-rails for heavy loads (page 226) to be fixed on the bottom part of of the enclosure or to be associated with a "heavy load kit" (page 229) to be used at any height in the enclosure,
- Cross-rails fo Lütze chassis (page 226).

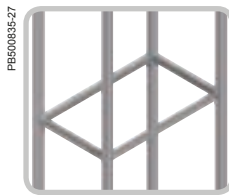


- Universal cross-rails
- Quick-fixing cross-rails
- Integrated cross-rails
- light cross-rails

### ★ Combination examples



**Spacial SF and SFX:** the cross rails can be fixed to the structure and among each other, offering multiple possibilities.



Universal cross-rails and integrated cross-rails can be simultaneously mounted at the same height, on all the sides of the enclosure.  
To perform this type of installation in a **Spacial SM** enclosure, the vertical adaptation profile and the vertical 40-mm universal cross rail (1 row) are required, mounted in the back of the enclosure.



**Spacial SF:** universal cross-rails and integrated cross-rails can be mounted in vertical position.

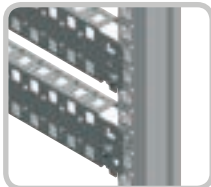
# Mounting

## Cross rails for floor-standing enclosures overview



### Combination examples

PB500838-26



The quick-fixing cross rails can be fixed directly to the structure, quickly and easily.

■ **Spacial SF and SFX\*:**

□ They clip onto the structure and are fixed by M6 self-tapping screws, or optionally with M6 caged nuts.

■ **Spacial SM:**

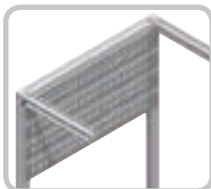
□ Possibility of clipping onto the adaptation profile or another cross rail.

□ Fixing by means of M6 self-tapping screws.

□ Fixing by means of M6 caged nuts.

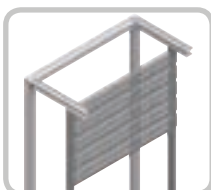
*\* In enclosures Spacial SFX is not possible to mount it in depth.*

PB500839-30



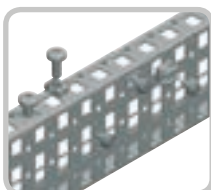
Quick-fixing cross-rails can be used to support equipments at the back of the enclosure or be fixed every 25 mm on two cross-rails (universal or integrated) in vertical position.

PB500841-24



40mm wide universal and integrated cross-rails can be used as uprights, adjustable every 25 mm in depth. They enable the fixing of diverse equipment supports and are adjustable every 25 mm in height.

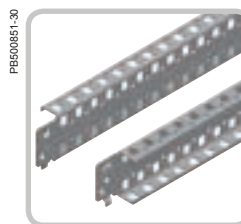
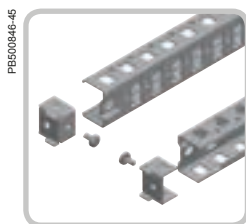
PB500842-30



The main fixing point to the quick-fixing cross rails is the 5.2 mm drill hole for M6 self-tapping screw, although they can also receive M6 and M8 caged nuts.

# Mounting

## Cross rails for floor-standing enclosures



Characteristics			Universal cross rails	Quick-fixing cross rails
			<ul style="list-style-type: none"> <li>Used for the creation of structures inside the enclosure.</li> <li>Cross-rails available in 3 sizes: 40 mm (1 row), 65 mm (2 rows) et 90 mm (3 rows).</li> <li>Each row is perforated every 25 mm with a 5.2 mm diameter hole and a 11x13 mm cutout which enables fixing by means of M6 self-tapping screws, ref NSYST30M6S.</li> <li>Equipment are fixed by means of caged nuts or self-tapping screws.</li> </ul>	
Material			Zinc-coated steel	
Thickness			15/10° mm	
Fixing to the structure			Fixing accordingly to uprights axis. Possibility to mount cross-rails simultaneously on all sides, at the same height of the enclosure.	Fixing accordingly to uprights axis. No possibility to mount two cross-rails at the same level of an upright.
Supply			2 cross rails, 4 supports for cross rails and fixing elements	2 cross rails and fixing elements
Dimensions		Maximum load by rail		
Width of the cross rail (mm)	H / L / P (Dn) of cubicle (mm)	(kg)	References	
40 (1 row)	300	70	NSYSUCR4030	-
	400	60	NSYSUCR4040	NSYSQCR4040
	500	60	NSYSUCR4050	NSYSQCR4050
	600	50	NSYSUCR4060	NSYSQCR4060
	700 (3)	50	NSYSUCR4070	-
	800	40	NSYSUCR4080	NSYSQCR4080
	900 (3)	40	NSYSUCR4090	-
	1000	30	NSYSUCR40100	NSYSQCR40100
	1100 (3)	30	NSYSUCR40110	-
	1200	20	NSYSUCR40120	NSYSQCR40120
	1400	(1)	NSYSUCR40140	-
	1500 (3)	(2)	NSYSUCR40150	-
	1600	(1)	NSYSUCR40160	-
	1800	(1)	NSYSUCR40180	-
65 (2 rows)	2000	(1)	NSYSUCR40200	-
	2200	(1)	NSYSUCR40220	-
	300	110	NSYSUCR6530	-
	400	100	NSYSUCR6540	NSYSQCR6540
	500	90	NSYSUCR6550	NSYSQCR6550
	600	80	NSYSUCR6560	NSYSQCR6560
	800	70	NSYSUCR6580	NSYSQCR6580
	1000	50	NSYSUCR65100	NSYSQCR65100
	1200	50	NSYSUCR65120	NSYSQCR65120
	1400	(1)	NSYSUCR65140	-
	1600	(1)	NSYSUCR65160	-
	1800	(1)	NSYSUCR65180	-
	2000	(1)	NSYSUCR65200	-
	2200	(1)	NSYSUCR65220	-
90 (3 rows)	300	130	NSYSUCR9030	-
	400	120	NSYSUCR9040	NSYSQCR9040
	500	120	NSYSUCR9050	NSYSQCR9050
	600	110	NSYSUCR9060	NSYSQCR9060
	700 (3)	110	NSYSUCR9070	-
	800	100	NSYSUCR9080	NSYSQCR9080
	900 (3)	100	NSYSUCR9090	-
	1000	70	NSYSUCR90100	NSYSQCR90100
	1100 (3)	70	NSYSUCR90110	-
	1200	70	NSYSUCR90120	NSYSQCR90120
	1400	(1)	NSYSUCR90140	-
	1500 (3)	(2)	NSYSUCR90150	-
	1600	(1)	NSYSUCR90160	-
	1800	(1)	NSYSUCR90180	-
	2000	(1)	NSYSUCR90200	-
	2200	(1)	NSYSUCR90220	-

(1) For vertical assembly only.

(2) Cross rails only for fixing cables.

(3) These cross-rails have not been sized to be used in the width, depth or height of the enclosure, but to be mounted in other positions or in between cross-rails.

# Mounting

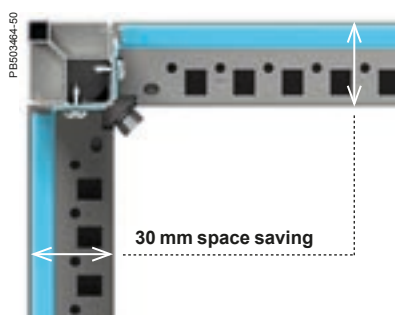
## Cross rails for floor-standing enclosures

PB503461-66



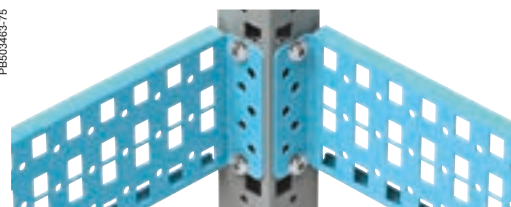
New

Characteristics			Integrated cross-rails
			<ul style="list-style-type: none"> <li>Used for the creation of structures inside the enclosure.</li> <li>Cross-rails available in 3 sizes : 40 mm (1 row), 65 mm (2 rows) et 90 mm (3 rows).</li> <li>Each row is perforated every 25 mm with a 5.2 mm diameter hole and a 11x13 mm cutout which enables fixing by means of M6 self-tapping screws, ref NSYST30M6S.</li> <li>Equipment are fixed by means of caged nuts or self-tapping screws.</li> </ul>
Material			Zinc-coated steel
Thickness			15/10° mm
Fixing to the structure			Fixing is shifted by 30 mm relatively to uprights' axis. Possibility to mount cross-rails simultaneously on all sides, at the same height of the enclosure.
Supply			2 cross rails and fixing elements
Dimensions		Maximum load by rail	References
Width of the cross rail (mm)	H / L / P (Dn) de la cellule (mm)	(kg)	
40 (1 row)	300	70	NSYSICR4030
	400	60	NSYSICR4040
	500	60	NSYSICR4050
	600	50	NSYSICR4060
	800	40	NSYSICR4080
	1000	30	NSYSICR40100
	1200	20	NSYSICR40120
65 (2 rows)	300	110	NSYSICR6530
	400	100	NSYSICR6540
	500	90	NSYSICR6550
	600	80	NSYSICR6560
	800	70	NSYSICR6580
	1000	50	NSYSICR65100
	1200	50	NSYSICR65120
90 (3 rows)	300	130	NSYSICR9030
	400	120	NSYSICR9040
	500	120	NSYSICR9050
	600	110	NSYSICR9060
	800	100	NSYSICR9080
	1000	70	NSYSICR90100
	1200	70	NSYSICR90120



30 mm space saving thanks to new fixation mode

PB503463-75



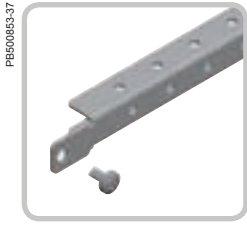
Quick mounting, at same level, on all enclosure perimeter



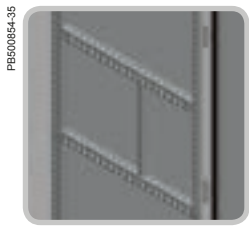
# Mounting

## Cross rails for floor-standing enclosures

SM SF SFX



PB500853-37

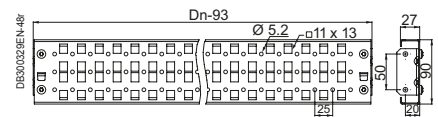
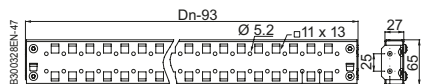
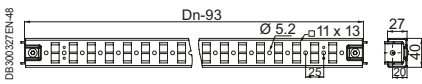


PB500854-35

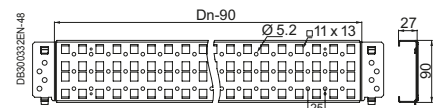
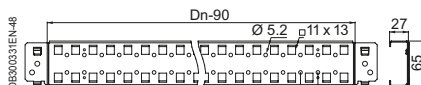
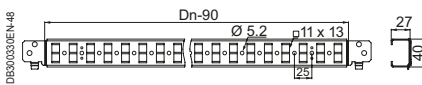
Characteristics	Light cross rails
	<ul style="list-style-type: none"> <li>■ <b>Spacial SF and SFX</b>: direct fixing to the structure or between cross rails.</li> <li>■ <b>Spacial SM</b>: fixing by means of adaptation profiles and 40 mm universal cross rails (1 row), or between cross rails in any other position.</li> <li>■ Adjustable with a pitch of 25 mm.</li> <li>■ The light cross rails are equipped with a row of drill holes with a diameter of 5.2 mm and a pitch of 25 mm, which allows fixing with an M6 self-tapping screw, ref. <b>NSYST30M6S</b>.</li> </ul>
Material	Zinc-coated steel
Thickness	-
Supply	2 light cross rails and fixing elements
<b>Width/Depth (mm)</b>	<b>References</b>
400	<b>NSYSLCR40</b>
500	<b>NSYSLCR50</b>
600	<b>NSYSLCR60</b>
800	<b>NSYSLCR80</b>

## Dimensions

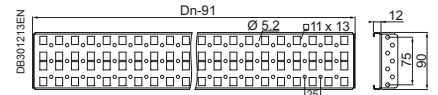
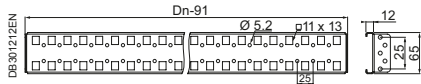
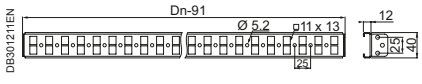
### Universal cross rails



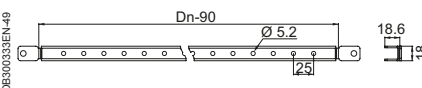
### Quick-fixing cross rails



### Integrated cross-rails



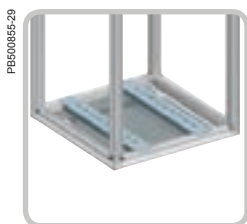
### Light cross rails



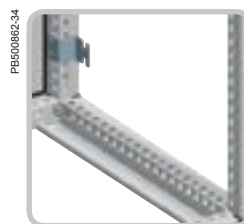
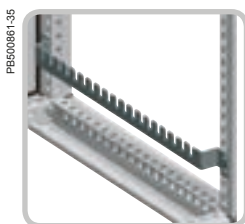
# Mounting

## Cross rails for floor-standing enclosures

SF



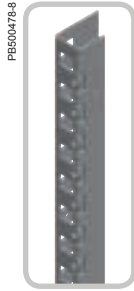
SF



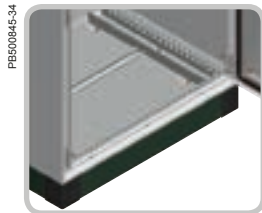
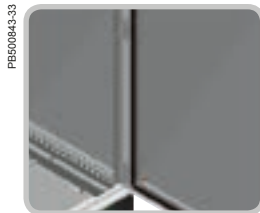
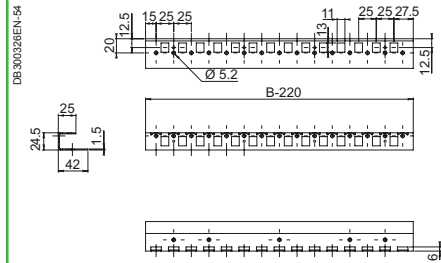
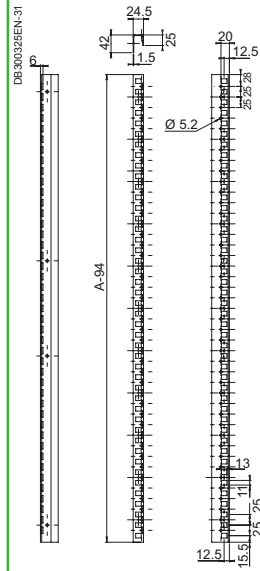
Characteristics	Rails for heavy loads	Cross rail for Lütze chassis	Support for Lütze chassis	
	<ul style="list-style-type: none"> <li>They can be mounted with a cable-gland plate or with a previously mounted mounting plate.</li> <li>Laterally adjustable with a pitch of 25 mm.</li> <li>Elongated holes, for adjusting the centre-to-centre distance of the switchgear.</li> </ul>	Cross rail for fixing and adjusting the depth of the Lütze chassis.	Support for installing Lütze chassis in the back of the enclosure.	
Fixing to the structure	Directly fixed on the bottom frame of the enclosure	-	-	
Material	Galvanised steel	Galvanised steel	Galvanised steel	
Thickness	30/10° mm	25/10° mm	25/10° mm	
Supply	2 rails for heavy loads and fixing elements	6 cross rails for Lütze chassis and fixing elements	6 supports and fixing elements	
Depth (mm)	Maximum load (kg)	References	Reference	
400	575	<b>NSYHLCR40</b>	<b>NSYLCR40</b>	<b>NSYLSUP</b>
500	525	<b>NSYHLCR50</b>	<b>NSYLCR50</b>	
600	500	<b>NSYHLCR60</b>	<b>NSYLCR60</b>	
700	500	<b>NSYHLCR70</b>	-	
800	475	<b>NSYHLCR80</b>	-	

# Mounting Profiles for floor-standing enclosures

SM



Characteristics	Vertical adaptation profiles	Horizontal adaptation profiles
	<ul style="list-style-type: none"> <li>The vertical adaptation profiles provide fixing points at the entrance to the enclosure.</li> <li>Fixing on the screws of the hinge and catches of the lock.</li> <li>Allows the depthwise fixing of cross rails, etc.</li> </ul>	<ul style="list-style-type: none"> <li>The horizontal adaptation profiles provide fixing points at the entrance to the enclosure.</li> </ul>
Material	Zinc-coated steel	Zinc-coated steel
Thickness	15/10° mm	15/10° mm
Supply	2 vertical adaptation profiles and fixing screws	2 horizontal adaptation profiles and fixing screws
<b>Dimensions (mm)</b>	<b>References</b>	
<b>Height (A)</b>		
1200	NSYSMVR12	-
1400	NSYSMVR14	-
1600	NSYSMVR16	-
1800	NSYSMVR18	-
2000	NSYSMVR20	-
<b>Width (B)</b>		
600	-	NSYSMHR6
800	-	NSYSMHR8
1000	-	NSYSMHR10
1200	-	NSYSMHR12
1600	-	NSYSMHR16



# Mounting

## Standard supports

SM

SF



Tray installed on the structure.



Telescopic rails fixed to the structure.

Characteristics		Fixed tray	Telescopic rails
		<ul style="list-style-type: none"> <li>Options for fixing the tray to the enclosure:                             <ul style="list-style-type: none"> <li>If the tray has the same dimensions as the enclosure:                                     <ul style="list-style-type: none"> <li><b>Spacial SF:</b> direct fixing to the structure.</li> <li><b>Spacial SFX:</b> installation possible only with universal cross rails, see on page 223.</li> <li><b>Spacial SM:</b> fixing by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position.   <ul style="list-style-type: none"> <li>If the tray is smaller than the dimensions of the enclosure: fixing on depth cross rails.</li> <li>Depth-adjustable tray with a pitch of 25 mm.</li> </ul> </li> </ul> </li> <li>Provided with cut-outs for improving air circulation inside.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><b>Spacial SF:</b> installation directly on the structure of the enclosure or on universal cross rails.</li> <li><b>Spacial SFX:</b> installation possible only with universal cross rails, see on page 223.</li> <li><b>Spacial SM:</b> installation by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position, or on horizontal universal cross rails.                             <ul style="list-style-type: none"> <li>The installation of a telescopic tray consists of the following:                                     <ul style="list-style-type: none"> <li>1 fixed tray.</li> <li>2 telescopic rails.</li> </ul> </li> <li>End-of-travel stop of the rails in open and closed position.</li> </ul> </li> </ul>
Material		Steel	Zinc-coated steel
Finish		Painted with epoxy-polyester resin	Painted with epoxy-polyester resin
Colour		RAL 7035 grey	RAL 7035 grey
Maximum load		150 kg direct fixed to the structure 40 kg when universal cross rails are used	25 kg evenly distributed
Supply		1 fixed tray and fixing elements	2 telescopic rails and fixing elements
Depth	Width	Tray dimensions (mm)	References
400	600	482 x 290 x 30	NSYFXT6040
	800	682 x 290 x 30	NSYFXT8040
500	600	482 x 390 x 30	NSYFXT6050
	800	682 x 390 x 30	NSYFXT8050
600	600	482 x 490 x 30	NSYFXT6060
	800	682 x 490 x 30	NSYFXT8060
800	800	682 x 690 x 30	NSYFXT8080
			<b>Handle for telescopic trays</b> <ul style="list-style-type: none"> <li>Designed for easy extraction of the sliding trays.</li> <li><b>Material:</b> polyamide 6 (black).</li> <li><b>Supply:</b> two units and fixing elements.</li> </ul>
			<b>Reference</b> NSY1TH

SM

SF

SMX

SFX

### Tray cross rails



Tray installed on cross rails.



■ Allow the installation of fixed trays and telescopic rails. Quick and universal cross rails, see page 223

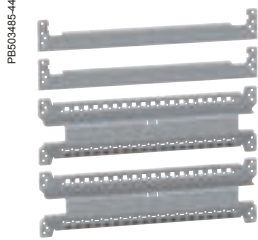
Dimensions (mm)	Universal cross rail	Quick-fixing cross rail
<b>Depth</b>	40 mm (1 row)	40 mm (1 row)
400	NSYSUCR4040	NSYSQCR4040
500	NSYSUCR4050	NSYSQCR4050
600	NSYSUCR4060	NSYSQCR4060
800	NSYSUCR4080	NSYSQCR4080

# Mounting

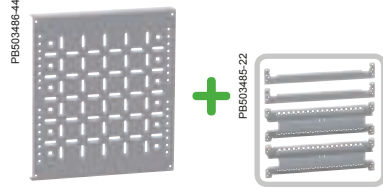
## Heavy load supports

SF

New



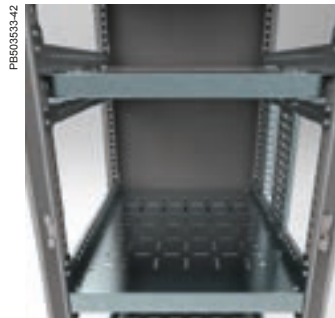
New



Characteristics	Heavy load kit	Ventilated shelf	
	<ul style="list-style-type: none"> <li>■ 4 parts designed to strengthen installation supports (shelves or cross-rails) in case of heavy loads.</li> <li>■ The kit can be used with following rails:                             <ul style="list-style-type: none"> <li>□ standard crossrails delivered with Spacial SF,</li> <li>□ quick-fixing cross-rails NSYSQCR***,</li> <li>□ DIN rails NSYSDR** and NSYDPR**,</li> <li>□ NSYCN** rails,</li> <li>□ heavy load cross-rails NSYHLCR**.</li> </ul> </li> <li>■ Several kits can be set up in the same enclosure as long as the maximum load of 1000kg is not exceeded.</li> <li>■ Strengthen the stiffness of the enclosure.</li> <li>■ Supports set up in the depth direction embed cut outs to secure equipment fixing.</li> </ul>	<ul style="list-style-type: none"> <li>■ Ventilation is ensured by two cut-out sizes:                             <ul style="list-style-type: none"> <li>□ 11 x 13 mm rectangles for fixation on both sides with self-tapping screws,</li> <li>□ 40 x 8.5 mm rectangles.</li> </ul> </li> <li>■ The ventilated shelf must be fixed in the enclosure with a heavy load kit.</li> </ul>	
Material	Steel	Steel	
Colour	RAL 7035	RAL 7035	
Maximum load	Up to 500 kg	350 kg	
Supply	2 cross-rails (front/rear) + 2 supports to be mounted according to depth direction	1 tray and fixing elements	
<b>Enclosure dimensions (mm)</b>	<b>References</b>	<b>Tray dimensions</b>	<b>References</b>
<b>Depth</b>	<b>Width</b>	<b>W x D x H (mm)</b>	
400	600	500 x 359 x 50	NSYDHLT6040
	800	700 x 359 x 50	NSYDHLT8040
600	600	500 x 559 x 50	NSYDHLT6060
	800	700 x 559 x 50	NSYDHLT8060
800	600	500 x 759 x 50	NSYDHLT6080
	800	700 x 759 x 50	NSYDHLT8080



### ★ Combination examples



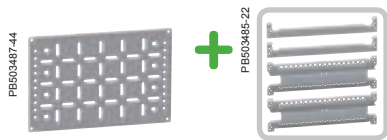
Heavy load kit +  
Ventilated shelf

# Mounting

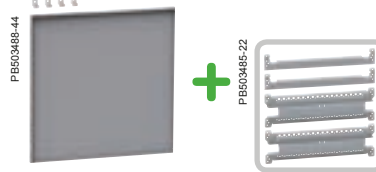
## Heavy load supports

SF

New



New



Characteristics	Partially ventilated shelf	Plain shelf for battery
	<ul style="list-style-type: none"> <li>in order to support the maximum load, the shelf must be mounted either in the rear or in the front of the enclosure.</li> <li>An intermediary cross-rail must be set up in the middle to bear a heavy loads.</li> <li>Ventilation is ensured by two cut-out sizes:                             <ul style="list-style-type: none"> <li>11 x 13 mm rectangles for fixation on both sides with self-tapping screws,</li> <li>40 x 8.5 mm rectangles.</li> </ul> </li> <li>The partially ventilated shelf must be fixed in the enclosure with a heavy load kit.</li> </ul>	<ul style="list-style-type: none"> <li>Painted shelf with rims to avoid potential liquid leakage.</li> <li>Electrical continuity is ensured by specific staples.</li> <li>Acces and replacement (thus maintenance) are eased by mounting brackets.</li> <li>The plain shelf must be fixed in the enclosure with a heavy load kit.</li> </ul>
Material	Steel	Steel
Colour	RAL 7035	RAL 7035
Maximum load	250 kg	350 kg
Supply	1 tray and fixing elements	1 tray and fixing elements
<b>Enclosure dimensions (mm)</b>	<b>Tray dimensions</b>	<b>Tray dimensions</b>
<b>Depth</b>	<b>Width</b>	<b>References</b>
	<b>W x D x H (mm)</b>	<b>W x D x H (mm)</b>
400	600	<b>NSYPPLT6040</b>
	800	<b>NSYPPLT8040</b>
600	600	-
	800	-
800	600	-
	800	-
		<b>References</b>
		<b>W x D x H (mm)</b>
		<b>NSYPPLT6040</b>
		<b>NSYPPLT8040</b>
		<b>NSYPPLT6080</b>
		<b>NSYPPLT6080</b>
		<b>NSYPPLT8080</b>



### ★ Combination examples



Heavy load kit +  
Partially ventilated shelf



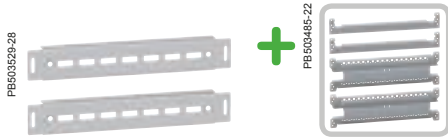
Heavy load kit +  
Plain shelf for battery

# Mounting

## Heavy load supports

SF

New



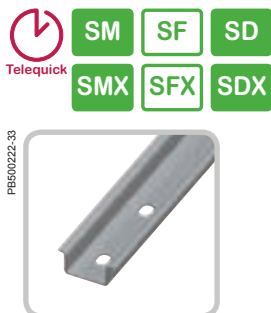
Characteristics		Heavy load cross-rails	
		<ul style="list-style-type: none"> <li>Can be fixed anywhere in the enclosure with a heavy load kit.</li> <li>Free space useful for thermal management.</li> <li>Nominal width of cross-rails must be 100mm shorter than the associated heavy load kit width.</li> </ul>	
Material	Steel		
Supply	2 cross rails and fixing elements		
Nominal width (mm)	Maximum load (kg)	References	Associated heavy load kit references
400	575	<b>NSYHLCR40</b>	Not usable with heavy load kit
500	525	<b>NSYHLCR50</b>	<b>NSYHLT6040 NSYHLT6060 NSYHLT6080</b>
600	500	<b>NSYHLCR60</b>	Not usable with heavy load kit
700	500	<b>NSYHLCR70</b>	<b>NSYSHLT8040 NSYHLT8060 NSYHLT8080</b>
800	475	<b>NSYHLCR80</b>	Not usable with heavy load kit

### ★ Combination examples



Heavy load kit +  
Heavy load cross-rails

# Mounting Rails

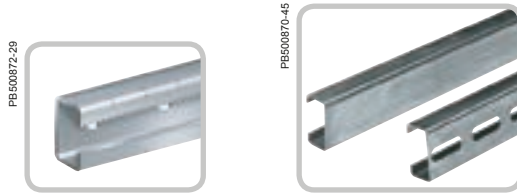


Characteristics	Symmetric mounting rail for the wall-mounting enclosures	Symmetric DIN rails for floor-standing enclosures	Asymmetric DIN rails for the floor-standing enclosures	Double-profile DIN rails		
	2 types: ■ Type A: 35 x 15 mm. ■ Type B: 35 x 7.5 mm.	Ensure horizontal continuity in case of enclosure assembly. Rail type: ■ Type A: 35 x 15 mm.	Ensure horizontal continuity in the case of enclosure assembly.	■ They combine the advantages of symmetric and asymmetric rails. ■ Quick installation of terminals according to standard DIN 46277/1.		
Material	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel		
Standards	IEC 715	IEC 715	IEC 715	-		
Thickness	■ Type A: 15/10° mm ■ Type B: 10/10° mm	15/10° mm	15/10° mm	15/10° mm		
Fixing	Fixed to mounting plates or another fixing elements, uprights not included in the supply	Fixed to the standard or technical uprights (see page 219) or directly to the structure	Fixed to the standard or technical uprights (see page 219) or directly to the structure	Fixed to the standard or technical uprights (see page 219) or directly to the structure		
Supply	10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)	10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)	10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)	10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units (10, 20, etc.)		
Dimensions (mm)	Type	References	References	References	Type	References
Enclosure Rail length (B)						
300	250	B	<b>NSYSDR30B</b>	-	-	W* <b>NSYDPR25</b>
400	350	B	<b>NSYSDR40B</b>	-	-	W* <b>NSYDPR35</b>
500	450	A	<b>NSYSDR50A</b>	-	-	W* <b>NSYDPR45</b>
600	550	A	<b>NSYSDR60A</b>	-	-	W* <b>NSYDPR55</b>
	588	-	-	<b>NSYSDR60</b>	<b>NSYADR60</b>	F** <b>NSYDPR60</b>
700	650	-	-	-	-	W* <b>NSYDPR65</b>
800	750	A	<b>NSYSDR80A</b>	-	-	W* <b>NSYDPR75</b>
	788	-	-	<b>NSYSDR80</b>	<b>NSYADR80</b>	F** <b>NSYDPR80</b>
1000	950	A	<b>NSYSDR100A</b>	-	-	-
	988	-	-	<b>NSYSDR100</b>	<b>NSYADR100</b>	F** <b>NSYDPR100</b>
1200	1188	-	-	<b>NSYSDR120</b>	<b>NSYADR120</b>	F** <b>NSYDPR120</b>
			 Type A	 Type B	 Type W	 Type F

\* For wall-mounting enclosure. \*\* For floor-standing enclosure. (1) Not perforated.



# Mounting Rails



Characteristics	Serrated C-shaped rail for heavy loads	Symmetric C-shaped rails
	Marked in steps of 25 mm to facilitate switchgear positioning.	Rails for supporting and fixing switchgear on panels and enclosures, formation of chassis, racks and panel reinforcements.
Material	Zinc-coated steel	Galvanised steel
Standards	-	-
Thickness	20/10 <sup>e</sup> mm	-
Fixing	-	They are fixed to the structure and to one another by means of fixing elements
Supply	2 rails with a length of 2 m	References by unit. Order by multiples of the units specified in the supply
<b>Dimensions (mm)</b>	<b>References</b>	<b>Type</b> <b>Dimensions (mm)</b> <b>Supply</b> <b>References</b>
<b>Rail length (B)</b>		
1500	<b>AM1EC115</b>	-   -   -   -   -   -   -   -   -   -   -
2000	<b>AM1EC200</b>	C20 (1)   21   11   10   1.5   5.5   -   -   -   10 <b>NSYCN20</b>
		C20   21   11   10   1.5   5.5   5   6.2   15   10 <b>NSYCN20</b>
		C40 (1)   40   20   24   1.5   8   -   -   -   10 <b>NSYCN40</b>
		C40   40   20   24   1.5   8   10   8.5   30   10 <b>NSYCN40</b>

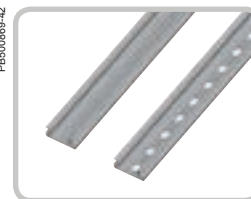
\* For wall-mounting enclosure. \*\* For floor-standing enclosure. (1) Not perforated.

## Nuts for symmetric C-shaped rails



Characteristics		Combiplas nut		Metal sliding nut	
Rail type	Nuts type	Supply	References	Supply	References
C20	M3	-	-	-	-
	M4	100	<b>NSYBN204</b>	100	<b>NSYB204</b>
	M6	100	<b>NSYBN206</b>	-	-
C40	M4	50	<b>NSYBN404</b>	100	<b>NSYB404</b>
	M6	50	<b>NSYBN406</b>	-	<b>NSYB406</b>
	M8	50	<b>NSYBN408</b>	-	-
C60	M6	20	<b>NSYBN606</b>	100	-
	M8	20	<b>NSYBN608</b>	-	-
	M10	20	<b>NSYBN610</b>	-	-

# Mounting 2000 mm rails

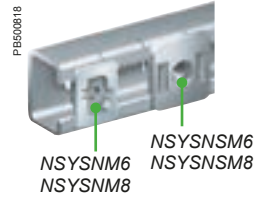
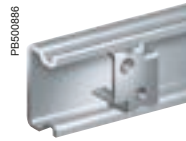


Characteristics		Symmetric rails				Asymmetric DIN rails	Double-profile DIN rails
Material		Galvanized steel, zinc-coated steel or aluminium				Galvanized steel	Galvanized steel
Thickness		-				-	15/10° mm
Supply		-				20 rails with a length of 2 m. References by unit. Order by multiples of 20 units (20, 40, etc.)	20 rails with a length of 2 m. References by unit. Order by multiples of 20 units (20, 40, etc.)
Length (mm)	Perforations	Material	Type	Supply	References	References	References
2000	Perforated	Galvanized steel	A	20	<b>NSYSDR200D</b>	<b>NSYADR200D</b>	<b>NSYDPR200D</b> <b>NSYDPR200T*</b>
			B	20	<b>NSYSDR200BD</b>		
	Not perforated	Galvanized steel	A	20	<b>NSYSDR200</b>	<b>NSYADR200</b>	<b>NSYDPR200</b>
			B	20	<b>NSYSDR200B</b>		
		Zinc-coated steel	C	6	<b>AM1DL201</b>		
		Aluminium	D	10	<b>AM1EA200</b>		

\* 10/10° mm thickness.

# Mounting

## Rail accessories



Characteristics	Nuts			
	For symmetric rails	For asymmetric DIN rails, 2000 mm version	For double-profile DIN rails	For serrated C-shaped rails
	Clip-on nut.	Quarter-turn sliding nut.	Quarter-turn sliding nut.	Quarter-turn sliding nuts.
Supply	100	100	100	10
Type	References			
M3	-	-	AF1CF34	-
M4	AF1CG4	DZ5ME8	AF1CF34	-
M5	AF1CG5	DZ5ME9	AF1CF56	-
M6	AF1CG6	DZ5ME5	AF1CF56	NSYSNM6 NSYSNSM6
M8	-	-	-	NSYSNM8 NSYSNSM8

# Mounting

## Connectors for symmetric C-shaped rails

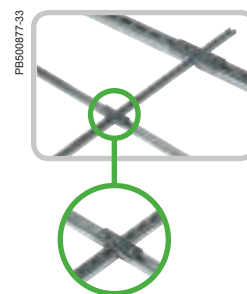
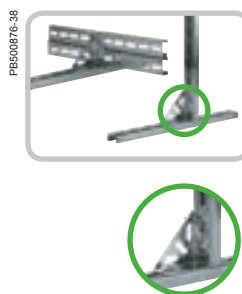
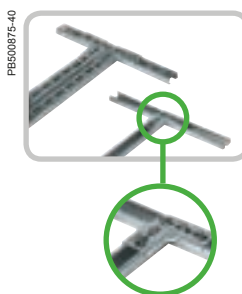


### Examples

#### Combinations with connectors for symmetric C-shaped rails



- The connectors enable the formation of chassis or frames and structures for fixing switchgear, in any position inside the enclosures, allowing the fixing of DIN rails or other elements.
- See symmetric C-shaped rails.



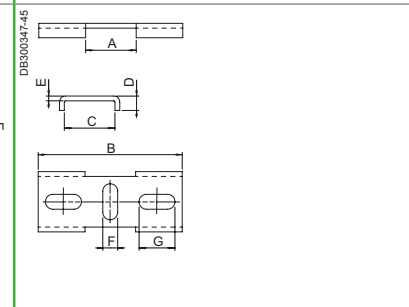
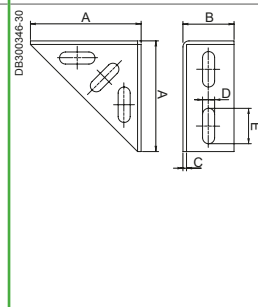
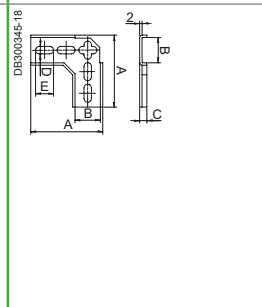
Characteristics	EMA connectors	EVA connectors	UCA connectors
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	To join two symmetric C-shaped rails, C20 and C40 types, at right angles; they can also be used to obtain a T-shaped assembly.	To join two symmetric C-shaped rails, C20 and C40 types, forming an overlapping assembly with plane change, or also at right angles for the formation of spacers supports at a different level.	To join symmetric C-shaped rails, types C20 and C40, forming a cross-shaped assembly of three rails located on the same plane, for example inside a frame.
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Material	Zinc-coated steel		
Thickness	20/10 <sup>a</sup> mm	-	-
Supply	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

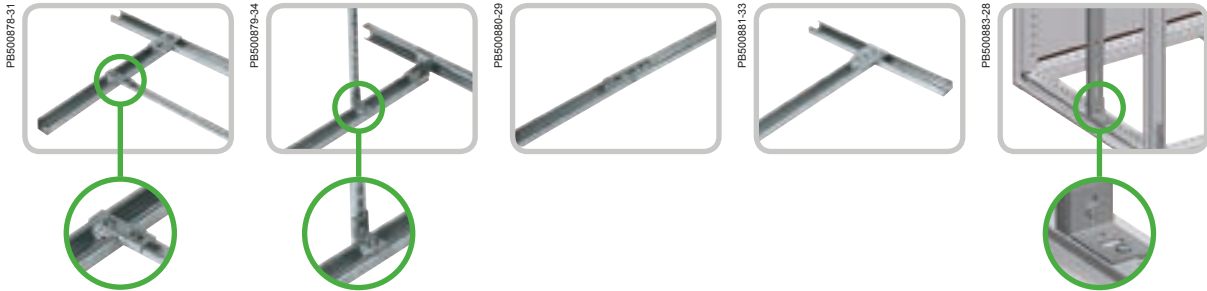
Dimensions (mm)									References		
A	B	C	D	E	F	G	H				

60	21.3	6	6.2	15	-	-	-		<b>NSYEMA20</b>	-	-
100	40.3	10	8.5	25	-	-	-		<b>NSYEMA40</b>	-	-
43	19	2	6.2	15	-	-	-		-	<b>NSYEVA20</b>	-
78	36	2.5	8.5	25	-	-	-		-	<b>NSYEVA40</b>	-
21.3	60	21.3	6	2	6.2	15	-		-	-	<b>NSYUCA22</b>
40.3	116	40.3	10	2.5	8.5	25	-		-	-	<b>NSYUCA44</b>
21.3	21.5	53.5	8	2	6.2	15	-		-	-	-
21.3	40.5	72.5	8	2	6.2	15	-		-	-	-
40.3	40.5	81	10	2.5	8.5	25	-		-	-	-
21.3	21.5	8	2	6.2	15	6.2	15		-	-	-
21.3	40.5	8	2	6.2	15	6.2	13		-	-	-
40.3	40.5	10	2.5	8.5	25	8.5	25		-	-	-
60	18	2	20	15	5	-	-		-	-	-
130	36	3	40	30	10	-	-		-	-	-
130	55	3	40	30	10	-	-		-	-	-
54	54	2	20	20	5	-	-		-	-	-
60	80	2	20	25	8	-	-		-	-	-
80	110	2	20	29	10	-	-		-	-	-



# Mounting

## Connectors for symmetric C-shaped rails



UTA connectors	ECA connectors	UR connectors	UT connectors	EN connectors
<ul style="list-style-type: none"> <li>To create a T-shaped assembly between two symmetric C-shaped rails, C20 and C40 types, especially recommended for forming crossbars on chassis and frames.</li> <li>The UTA42 connectors type allows C20 rails to be joined with C40 rails.</li> </ul>	<ul style="list-style-type: none"> <li>To form a cross-shaped assembly with two symmetric C-shaped rails, C20 and C40 types, located perpendicularly on different planes.</li> <li>The ECA42 connector type makes it possible to join C20 rails with C40 rails.</li> </ul>	<ul style="list-style-type: none"> <li>For rectilinear joining of symmetric C-shaped rails.</li> <li>Recommended when the standard length is not sufficient or for maximising fractions.</li> </ul>	<ul style="list-style-type: none"> <li>To form T-shaped assemblies between symmetric C-shaped rails. They are used to form crossbars on frames and structures.</li> </ul>	<ul style="list-style-type: none"> <li>To create L-shaped assemblies with plane change in the symmetric C-shaped rails, between them or with any other section.</li> </ul>
20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)
-	-	-	-	<b>NSYEN20</b>
-	-	-	-	<b>NSYEN40</b>
-	-	-	-	<b>NSYEN60</b>
<b>NSYUTA22</b>	-	-	-	
<b>NSYUTA42</b>	-	-	-	
<b>NSYUTA44</b>	-	-	-	
-	<b>NSYECA22</b>	-	-	
-	<b>NSYECA42</b>	-	-	
-	<b>NSYECA44</b>	-	-	
-	-	<b>NSYUR20</b>	-	
-	-	<b>NSYUR40</b>	-	
-	-	<b>NSYUR60</b>	-	
-	-	-	<b>NSYUT20</b>	
-	-	-	<b>NSYUT40</b>	
-	-	-	<b>NSYUT60</b>	

# Mounting Spacers



PB500778-55



PB500884-53

Characteristics	Hexagonal spacers	ETU modular spacers
	<ul style="list-style-type: none"> <li>Hexagonal spacers for raising switchgear, mounting plates, etc. They can be linked together to achieve variable heights with gradual elevation.</li> <li>Their assembly requires M5, M6 or M8 caged nuts.</li> </ul>	Modular spacers for installing devices or rails at a different level from that achieved with the basic chassis or mounting plate.
Material	Zinc-coated steel	Zinc-coated steel
Installation	If used to raise a mounting plate, the maximum load of the mounting plate is decreased	-
Supply	100 hexagonal connectors. References by unit. Order by multiples of 100 units (100, 200, 300, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

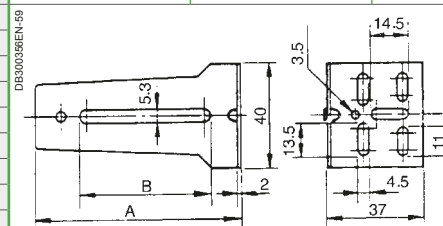
References						
	Thread type (R)	Spacer height (mm) (A)		A (mm)	B (mm)	
	M5	10	NSYE1025	48	25	NSYETU48
	M5	15	NSYE1525	58	25	NSYETU58
	M5	20	NSYE2025	79	55	NSYETU79
	M6	10	NSYEX106	118	55	NSYETU118
	M6	12	NSYEX126			
	M6	14	NSYEX146			
	M6	16	NSYEX166			
	M6	18	NSYEX186			
	M6	20	NSYEX206			
	M6	30	NSYEX306			
	M6	40	NSYEX406			
	M6	50	NSYEX506			
	M6	100	NSYEX1006			
	M8	15	NSYEX158			
	M8	20	NSYEX208			
	M8	30	NSYEX308			
	M8	40	NSYEX408			
	M8	50	NSYEX508			
	M8	60	NSYEX608			
	M8	100	NSYEX1008			

Combination of spacers	Minimum height (mm)	Maximum height (mm)
NSYETU48 + NSYETU48	53	64
NSYETU48 + NSYETU58	63	74
NSYETU48 + NSYETU79	85	95
NSYETU48 + NSYETU118	124	134
NSYETU58 + NSYETU58	73	84
NSYETU58 + NSYETU79	94	104
NSYETU58 + NSYETU118	134	144
NSYETU79 + NSYETU79	84	125
NSYETU79 + NSYETU118	124	164
NSYETU118 + NSYETU118	164	204

DB30035E-61



# Mounting 19" Chassis

S3D S3X



Characteristics		19" fixed chassis for wall-mounting enclosure		19" swing chassis for wall-mounting enclosure	
		<ul style="list-style-type: none"> <li>■ 19" fixed chassis comprising 2 19" uprights with fixing.</li> <li>■ Adjustable in depth by fixing on the step slides in accessories.</li> </ul>		19" swing chassis opening to 120° with closure by 3 mm double bar insert.	
Material		Galvanized steel		Steel	
Finish		-		Structured finish, epoxy-polyester powder	
Colour		-		RAL 7035 grey	
Thickness		20/10 <sup>o</sup> mm		-	
Maximum load		3 kg per unit		3 kg per unit	
Enclosure (mm)		Unit number	References	Unit number	References
Height	Width				
400	600	8	NSYVDM8UF	7	NSYVDM7UP
600	600	12	NSYVDM12UF	11	NSYVDM11UP
800	600	17	NSYVDM17UF	16	NSYVDM16UP
1000	600	21	NSYVDM21UF	20	NSYVDM20UP
	800	-	-	20	NSYVDM20U8P
1200	800	-	-	25	NSYVDM25U8P

## Fixings for 19" rack



- They allow 19" accessories to be mounted.
- Caged nut compatible with 8.5 x 8.5 mm and 9.5 x 9.5 mm holes.

Name	Batch of	References
M6 screws + washers + nuts	30	NSYGFR95M63
M6 x 16 screws and washers	50	NSYGFR166P
M6 caged nuts	100	NSYCN9M625
M6 screws + washers + nuts	50	NSYGFR95M65
M5 screws + washers + nuts	50	NSYGFR95M55

# Mounting

## Nuts and screws overview

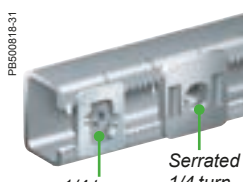


Characteristics	Clip-on nuts		Combiplas slide nut				Screws with captive washer Hexagonal head			
Usage	For Telequick mounting plates		C - shaped rail - 20/40/60 mm				All nuts			
Type	Supply	References	Rail type	Combiplas nut		Metal sliding nut		Models	Supply	References
				Supply	References	Supply	References			
M3	100	AF1EA3	-	-	-	-	-	-	-	-
M4	100	AF1EA4	C20	100	NSYBN204	100	NSYB204	M4 x 10 mm	100	AF1VA410
			C40	100	NSYBN404	100	NSYB404	M4 x 16 mm	100	AF1VA416
M5	100	AF1EA5	-	-	-	-	-	M5 x 12 mm	100	AF1VA512
								M5 x 18 mm	100	AF1VA518
M6	100	AF1EA6	C20	100	NSYBN206	-	-	M6 x 12 mm	100	AF1VA612
			C40	100	NSYBN406	-	-	M6 x 18 mm	100	AF1VA618
			C60	100	NSYBN606	100	NSYB406	-	-	-
M8	-	-	C40	100	NSYBN408	-	-	M8 x 20 mm	100	AF1VC820
			C60	100	NSYBN608	-	-	-	-	-
M10	-	-	C60	100	NSYBN610	-	-	-	-	-

References by unit. Order by multiples of the units specified in the supply.



Fixing brackets



Serrated  
1/4 turn



Removable nut



Cage nut

Characteristics	Fixings and nuts for serrated uprights					Nuts for uprights and cross rails			
Usage	2 per serrated mounting uprights for floor-standing enclosures								
Type	Fixing brackets			1/4 turn	Serrated 1/4 turn	Removable nut		Cage nut	
	Supply	Ref.	Supply	Ref.	Ref.	Supply	Ref.	Supply	Ref.
M4	4	NSYMF8	-	-	-	-	-	-	-
M5			-	-	-	-	-	-	-
M6			10	NSYSNM6	NSYSNSM6	50	NSYCNM6	50	NSYCNFM6
M8			10	NSYSNM8	NSYSNSM8	50	NSYCNM8	50	NSYCNFM8
-			-	-	-	-	-	-	-

References by unit. Order by multiples of the units specified in the supply.

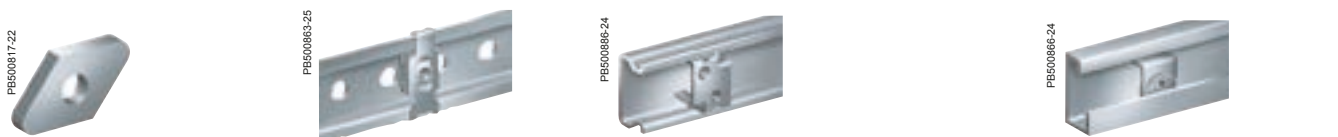


# Mounting

## Nuts and screws overview



Torx screws			Self-tapping screw			Fixings and nuts for aluminium uprights			
Nuts and 6 mm Spacial enclosures holes						Mounting uprights for wall-mounting enclosures			
Models	Supply	References	Models	Supply	References	Sliding nuts		Brass nuts to fix the upright to the enclosures	
-	-	-	-	-	-	Supply	References	Supply	Reference
-	-	-	-	-	-	-	-	4	NSYAMCSF
-	-	-	-	-	-	100	NSYNM4	-	-
-	-	-	M5 x 13 mm	100	NSYS13M5HS	100	NSYNM5	-	-
-	-	-	M5 x 16 mm	100	NSYS16M5HS	-	-	-	-
T30 M6 x 16 mm	100	NSYST30M6	M6 x 16 mm	100	NSYS16M6HS	100	NSYNM6	-	-
T30 M6 x 14 mm self-tapping	100	NSYST30M6S	-	-	-	-	-	-	-
T40 M8 x 16 mm	100	NSYST40M8	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

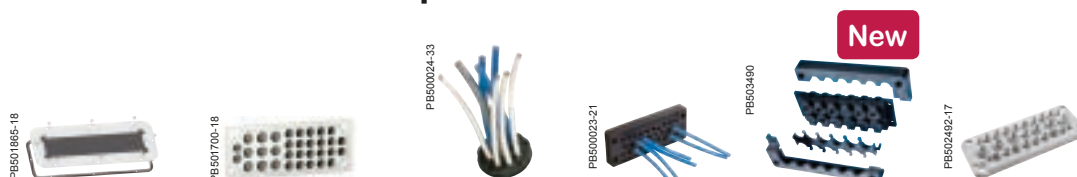


Flat nuts for standard uprights		Clip nut for symmetric DIN rail		Quarter turn nut for double profile DIN rail			Quarter turn nut for asymmetric DIN rail	
2 per standard mounting uprights for floor-standing enclosures		35 x 15 mm symmetric DIN rail		35 mm double profile DIN rail			35 mm asymmetric DIN rail	
Supply	Ref.	Supply	Ref.	Models	Supply	Ref.	Supply	Ref.
-	-	100	AF1CG4	-	-	-	100	DZ5ME8
-	-	100	AF1CG5	-	-	-	100	DZ5ME9
50	NSYFNM6	100	AF1CG6	-	-	-	100	DZ5ME5
50	NSYFNM8	-	-	-	-	-	-	-
-	-	-	-	M3 + M4	100	AF1CF34	-	-
-	-	-	-	M5 + M6	100	AF1CF56	-	-

# Cable management

## Cable entries overview

### Multiple cable entries



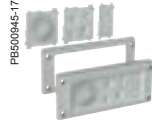
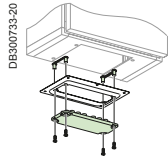
Characteristics	Flexicable	Multi-A	Multi-C	Multi-R	Multi-CS	Multi-T
	Full membrane cable gland plate.	FL13 & FL21 type membranes.	Circular connector-free entries.	Rectangular connector-free entries.	Modular entry allowing the passing of up to 48 pre-assembled cables.	FL21-type membranes.
Material	HCE for membrane. Steel for frame	TPE, SBS, SEBS and PP co-polymer - halogen free	Polyamide	Polyamide	Reinforced polypropylene and TPE. Halogen free	TPE
Colour	Frame: RAL 7035	RAL 7035	-	-	Black	RAL 7035
Cable entry material	Soft membrane	Combined	Soft membrane			
Cable glands to be fitted	No	Optional: specific cable clamp ref. <b>NSYAECPLACA●●</b> to be used	No	No	No	No
Installation possibilities	Replaces cable gland plate (S3D) or directly on enclosure	On cable gland plate adapter or directly on enclosure	On modified cable gland plate or directly on enclosure	On cable gland plate with special cut-out or directly on enclosure	On cable gland plate adapter or directly on enclosure	
Flexibility of the installation	Full	Medium	Medium	Medium	Full	Medium
Reversibility	Medium	Medium	Full	Full	Full	Medium
Ingress protection rating	IP55 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP66 according to IEC 60529**
Cable retention	Low	High with cable clamp, (up to 18 daN)	Medium	Medium	Medium	Low
Cable diameter (mm)	Up to 26	From 13 to 30	From 3 to 15.9	From 4.3 to 15.9	Up to 22	From 5 to 60
Cable Installation time	Fast	Medium	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+++	++	++	++	+++	++
Cable entries for cables with connectors	No	No	No	No	Yes	No
Cut-out dimensions (mm)	178 x 63 to 478 x 63	134 x 52 (FL13) 214 x 90 (FL21)	Ø 50.5 Ø 63.5	112 x 36	112 x 36	214 x 90 (FL21)
External dimensions (mm)	245 x 130 to 545 x 130 or 495 x 220	216 x 84	Ø 58 Ø 71	146 x 14 x 58	148 x 58 x 15 148 x 58 x 18	214 x 88
Certificates	Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1	Cable anchorage pull test: EN 50262. Long term UV-resistance: ASTM G 154-06	■ UL 94 V-0	■ UL 94 V-0	■ UL 94 V-0 ■ Fire resistance: V0	UL 94 V-0
Fire resistance	650°C	750°C	650°C	650°C	-	650°C
Temperature range	-	-40°C to +85°C	-	-	-30°C to +100°C	-40°C to +100°C
<b>References*</b>						
See page	250	250	251	251	264	252

\* For details, type the reference in the search engine of [www.schneider-electric.com](http://www.schneider-electric.com).

\*\* IP65 for NSYAECPLBP.

# Cable management

## Cable entries overview



Characteristics	Prisma	Multi-F	Multi-CF	Multi-CR	Multi-H
	FL21 or rectangular.	FL13 & FL21 pre-configured flanges.	Cable entry for protected cables.	Cable entries with dies for cables equipped with connectors.	FL21 insulated flange with ISO knockouts.
Material	Insulating material	Fibreglass-reinforced polypropylene and TPE - Halogen Free	Reinforced polypropylene and TPE. Halogen free	Polyamide	Polycarbonate glass-fiber reinforced
Colour	RAL 9001	RAL 7035	Black	-	RAL 7035
Cable entry material	Soft membrane			Hard plastic	
Cable glands to be fitted	No	No	No	Yes	Yes
Installation possibilities	On cable gland plate adapter or directly on enclosure				
Flexibility of the installation	Medium	Medium	Full	Low	Low
Reversibility	Medium	Medium	Full	Medium	Medium
Ingress protection rating	IP55 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP54 according to IEC 60529	IP65 according to IEC 60529
Cable retention	Low	Low	Medium	High (with fastener)	High (with cable clamp)
Cable diameter (mm)	From 28 to 60 (FL21) From 7 to 72 (rectangular)	From 16 to 50	From 9 to 30	From 3 to 31	From 12 to 25
Cable Installation time	Fast	Fast	Fast	Slow	Slow
Quantity of cables to be fitted for a given surface	++	++	+++	++	++
Cable entries for cables with connectors	No	No	Yes	Yes	No
Cut-out dimensions (mm)	214 x 90 (FL21)	134 x 52 (FL13) 214 x 90 (FL21)	112 x 36	36 x 91 ( <b>NSYDCE168</b> ) 36 x 112 ( <b>NSYDCE24</b> )	214 x 90 (FL21)
External dimensions (mm)	216 x 84	From 134 x 52 to 214 x 90	148 x 60 x 10	146 x 58	215 x 85
Certificates	-	<ul style="list-style-type: none"> <li>■ UL 94-HB</li> <li>■ Test standard EN 60529:1991 + A1</li> <li>EN 60670-1:2005,</li> <li>EN 50262:1998</li> <li>EMKO-TUI (03-SEC)</li> <li>F1001/84.</li> <li>Semko report 816003</li> <li>■ UL-approved materials</li> </ul>	<ul style="list-style-type: none"> <li>■ UL 94-HB</li> <li>■ Fire resistance: V0</li> </ul>	-	UL 94 V-1
Flame resistance	-	-	-	650 °C	750 °C
Temperature range	-	-20°C to +125°C (1)	-30°C to +70°C	-40°C to +80°C	<ul style="list-style-type: none"> <li>■ For normal operation: -40°C to +80°C</li> <li>■ For a short time: -40°C to +120°C</li> </ul>
<b>References*</b>					
See page	256	253	265	253	252

\* For details, type the reference in the search engine of [www.schneider-electric.com](http://www.schneider-electric.com).

(1) "Pop-out" membranes only.

# Cable management

## Cable entries overview

### Simple cable entries



Characteristics	Simple-1	Simple-2	Simple-3	Simple-4
	Mixed membrane entries for enclosure thickness 20/10° - 32/10° mm.	PVC adjustable cone-shaped entries for enclosure thickness 30/10° - 32/10° mm.	Quick cable entries for enclosure thickness 10/10° - 40/10° mm (5/10° - 20/10° mm for ref. <b>IMT36179</b> ).	PVC adjustable cone-shaped entries for PG tubes or for enclosure thickness 12/10° - 15/10° mm.
Material	SBS	PVC	EPDM plastic	PVC
Colour	RAL 7035 light grey or RAL 9010 white	-	<ul style="list-style-type: none"> <li>■ Grey cable entries: NCS 5500</li> <li>■ Black cable entries: NCS 9000</li> </ul>	Black
Cable entry material	Soft membrane		Combined	
Cable glands to be fitted	Not applicable			
Installation possibilities	On cable gland plate or directly on enclosure			
Flexibility of the installation	Low			
Reversibility	Medium			
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP67 according to IEC 60529	IP55 according to IEC 60529
Cable retention	Low	Low	Medium	Low
Cable diameter (mm)	From 20 to 40	From 5 to 87	From 12 to 50	From 16 to 44
Cable Installation time	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+	+	+	+
Cable entries for cables with connectors	No	No	No	No
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter			
External dimensions (mm)	From Ø 23 to 44	From Ø 25 to 98	From Ø 12.5 to 50.7	From Ø 25 to 52
Certificates	-	-	-	-
Standard	-	-	-	-
Flame resistance	750°C	-	750°C	-
<b>References*</b>				
See page	258	258	259	259



Caractéristiques	Simple-5	Synthetic snap in cable gland	Stainless steel cable gland with lamellar insert
	ISO cable gland.	Without thread. Easy assembly and disassembly. Suitable for walls from 0.5 to 4 mm thick.	Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For outdoor use, or for aggressive environments.
Material	PA6 Polyamide, neoprene gasket	PA6 Polyamide, neoprene gasket	Stainless steel AISI 304L or AISI 316L, neoprene gasket
Colour	RAL 7035 grey	RAL 7035, RAL 7001, RAL 9005. Other colours on demand	-
Cable entry material	Combined		Non armoured
Installation possibilities	On cable gland plate or directly on enclosure		
Flexibility of the installation	Low		
Reversibility	Medium		
Ingress protection rating	IP68 according to IEC 60529	IP68	IP68
Cable retention	High	High	High
Cable diameter (mm)	From 12 to 40	From 16 to 40	From 12 to 40
Cable Installation time	Slow	Slow	Slow
Quantity of cables to be fitted for a given surface	+	+	+
Cable entries for cables with connectors	No	No	No
Thread type	-	Metric EN 60423 Other types are available on demand	Metric EN 60423
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter		
External dimensions (mm)	From Ø 15 to 46	From Ø 22 to 46	From Ø 14 to 43
Certificates	Glow wire resistance: 960°C	UL 94 V-2	UL 94 V-2
Standard	Compliance with VDE, UL and CSA	DIN EN 62444, UL 514B, UL 514B§8.26.7	DIN EN 62444, UL 514
Flame resistance	750 °C	-	-
Temperature range	-	-20°C to + 100°C	-20°C to + 100°C
<b>References*</b>			
See page	258	259	259

\* For details, type the reference in the search engine of [www.schneider-electric.com](http://www.schneider-electric.com).

# Cable management

## Cable entries overview

PE50026B-17



ODAPB50026B-22



PE50026B-23



PE500270-19



Characteristics	Multi-cable disc		Cable-gland gasket	Blanking plug	Transport plug
	It is possible to pass several cables through a single cable-gland using the multi-cable bushing.		-	It is screwed into the cable-gland's plate.	It is installed to block the cable-gland during transport or during maintenance operations.
Material	EDPM rubber		EDPM rubber	PA6	PA6
Colour	Black		Black	RAL 7035	Black
Ingress protection rating	-		IP68	-	-
Standards	-		-	-	-
Other characteristics	-		-	-	-
Supply	Batch of 40 (M16 and M20), 20 (M25 and M32)		Batch of 100 (M12 to M20) 50 (M25 and M32), 25 (M40)	Pack of 40 plugs (M12 to M20), 20 plugs (M25 and M32), 10 plugs (M40)	Pack of 40 plugs (M16 to M20), pack of 20 (M25 and M32), pack of 10 (M40)
Ø	Number / Ø (mm)	References	References	References	References
M12	-	-	IMT36151	IMT36161	-
M16	2 x Ø 4	IMT36157	IMT36152	IMT36162	IMT36167
M20	3 x Ø 4	IMT36158	IMT36153	IMT36163	IMT36168
M25	4 x Ø 5	IMT36159	IMT36154	IMT36164	IMT36169
M32	6 x Ø 5	IMT36160	IMT36155	IMT36165	IMT36170
M40	-	-	IMT36156	IMT36166	IMT36171

# Cable management

## Cable entries



Multiple



Single

### Key features when selecting a cable entry

#### 1 - Multiple cable entries or single cable entries

Your choice depends on:

- The amount of cables going through the cable entry: generally for 3 or more cables, choose a multiple cable entry. It will make your installation faster and more economical. In other words, your final bill will not necessarily be lower with single cable entries.
- Flexibility of installation: for high flexibility, the multiple cable entry is the right choice.

#### 2 - Entry cable material

■ **Soft membranes** allow cables to be easily pushed through, but still offer a good IP rating, protecting from moisture as well as physical intrusions. Cable retention force, however, is lower than with other alternatives.



Push the membrane into a standard hole.



Make a small hole in the membrane.



Push the cable or tube through the guide hole.



Pull the cable or tube back some 20 mm to lock it.

- **Hard plastic** needs specific tools to create the opening (drill or knife) but, thanks to the cable gland, offers a very high retention force. Another use of this solution is for public places, since the hard surface prevents objects being pushed in.
- **Combined:** the material of the cable entry plate is hard plastic, but the cable is pushed through a soft membrane. In this case you have the advantages both of soft membranes (easy and fast installation, flexibility) and hard plastic membranes (high retention force, when using specific cable clamps).



PB502707-70



PB501702



PB501703-30



PB501704-35



PB502706-68

#### 3 - Cable glands to be fitted

■ Some multiple cable entries require a cable gland to be able to retain the cables and ensure the degree of protection.

# Cable management

## Cable entries

### 4 - Installation possibilities

There are 4 ways to install your cable entries on the enclosure:

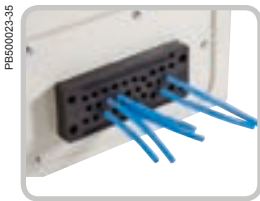
■ **By replacing the cable gland plate:** the standard cable gland plate of your S3D wall-mounting enclosure is unscrewed and replaced by the cable entry. A gasket between enclosure and cable entry will ensure good water and dust tightness.



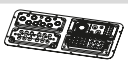



■ **On modified cable gland plate:** the standard cable gland plate is unscrewed and machined. A cut-out is created in it.

■ **On cable gland plate adapter:** this plate, which has the outer dimensions of a standard cable gland plate, has one or more pre-cut cut-outs of standard dimensions (FL13 and FL21).

On steel wall-mounting enclosures, the plate can replace the standard cable gland plate once the cable entry is fitted into it. On polyester enclosures, a cut-out must be created. Schneider Electric provides this service: a precise laser cut-out is factory-created upon request.

On steel floor-standing enclosures, you may either use the specific cable gland roof or create a cut-out (see expert's tip 1, page 249).



Cable gland plate adapters				
Enclosure range	1 membrane	2 membranes	3 membranes	4 membranes
Spacial S3D	 PB500604-16 NSYTL•FL	 PB500604-15 NSYTL•2FL	-	 DB300718-15 NSYTLG4FL
Spacial SF	 PB502708-10 NSYSFLR•• NSYSFLR•••	 PB502708-12 NSYSFLR•• NSYSFLR•••	 PB500697-15 NSYSFLR•••	-

■ **Directly on the enclosure:** a cut-out is created on the enclosure's side according to the cable entry's dimensions (see expert's tip 1, page 249).

#### Zoom on...

FL13 and FL21 are standard cut-out dimensions frequently used in northern European countries and also used by our enclosures for several years now.

# Cable management

## Cable entries

PE602710-32



Full flexibility

PE600946-35



Medium flexibility

### 5 - Flexibility of the installation

■ **Full flexibility:** this means that cables can be added/removed easily, changing:

- quantity
- diameter
- position

(see expert's tip 2, page 249)

■ **Medium flexibility:**

- the amount, diameter or position of cables can be changed to a limited extent.

■ **Low flexibility:**

- it is not possible to change the above parameters.

### 6 - Reversibility

■ **Full reversibility:** this means that cables can be added/ removed easily without losing their initial characteristics, such as water tightness.

■ **Medium reversibility:** for soft membranes, once the cable has been removed, there may be a loss of IP depending on the size of the cable and the cut. For hard plastic entries or combined material entries, initial characteristics are regained by adding plugs.

■ **Low reversibility:** the cable entry must be completely replaced in order to regain the initial characteristics.

### 7 - Degree of protection (IP)

If an enclosure is to be used in a clean, dry and well insulated environment, lower levels of IP may be acceptable (IP54 or IP55).

In a dusty environment you may require higher IP levels, such as IP65 or IP68 (see expert's tip 4, page 249).

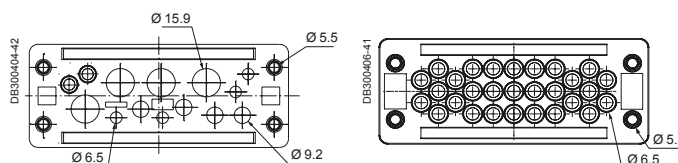
### 8 - Cable retention

Choose the right level of cable retention according to your needs. For locations accessible to the public, preferably choose a high level of cable retention.

### 9 - Cable diameter

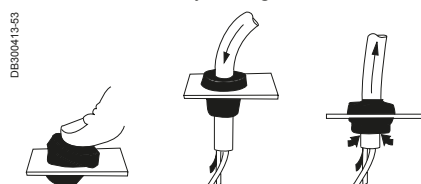
Choose the cable entry seal according to the cable diameter.

Take into account cable diameter tolerances.



### 10 - Cable installation time

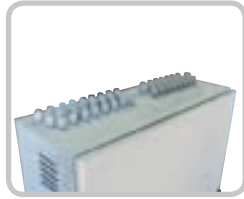
Each cable entry has different installation characteristics. Some can be installed easily and quickly thanks to the soft membrane. Take this into account depending on labour costs in your region.





# Cable management

## Cable entries



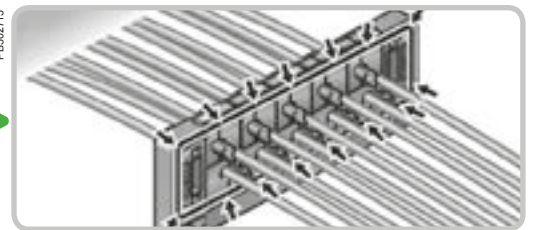
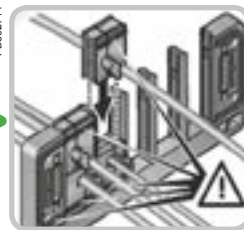
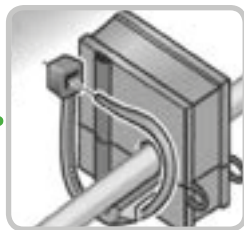
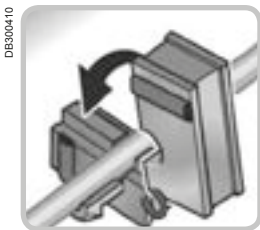
### 11 - Quantity of cables to be fitted for a given surface

For some installations, a large quantity of cables must go through the cable entry. Some cable entries can receive a high density of cables, which can result in more economical installation (fewer cable entries to be bought). For small enclosures, it may simply be impossible to install too many cable entries due to the available space on the enclosure's wall (see expert's tip 3, page 249).



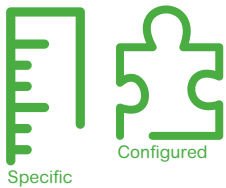
### 12 - Cable entries for cables with connectors

Some cables have large connectors which cannot be pushed through tight cable clamps or cable seals. These cable entries have the unique advantage of not requiring the cable to be cut, thanks to the snap-fitting system.



A high cable retention force is provided thanks to the integrated cable fastener.

## Expert's tip

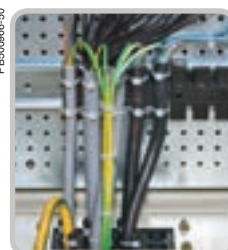
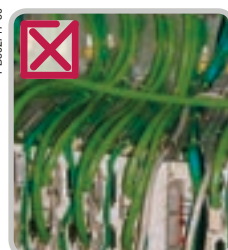


1 Some cable entries require cut-outs to be machined on the enclosure or cable gland plate. Our customized offer provides this service. The quality of your enclosure will therefore be guaranteed since the painting operation is performed after creating the cut-outs.

3 When the cable entry has been defined, the next step is cable management inside the enclosure. For correct thermal management, all wires must be fitted and attached so as not to create an obstacle for correct air flow. Consult our Universal Enclosures catalogue for cable management accessories (such as cable ducts) and consumables (such as cable ties).

2 Installing a cable entry with full flexibility is the solution when a large series of enclosures is being prepared for different types of installations. By using one combination of enclosure-cable entry, you can cover a large variety of installations!

4 When your environment requires a high level of IP for your installation, make sure you have an appropriate thermal management system to avoid condensation or overheating problems. Consult our Thermal Management offer in our Universal Enclosures catalogue and our Control Panel Technical Guide related to this issue.



# Cable management

## Cable entries

### Dimensions



FL 13



FL 21

Characteristics	FlexiCable cable entries	Multi-A																																																																																																																																					
See page	242	242																																																																																																																																					
Supply	<ul style="list-style-type: none"> <li>1 metallic frame with pre-mounted membrane</li> <li>1 gasket</li> <li>Fixing hardware</li> </ul>	-																																																																																																																																					
	<table border="1"> <thead> <tr> <th rowspan="2">Type</th> <th colspan="2">Plate dimensions (mm)</th> <th rowspan="2">Effective cable entrance dimensions (mm)</th> <th rowspan="2">References</th> </tr> <tr> <th>Width (A)</th> <th>Depth (B)</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>245</td> <td>130</td> <td>178 x 63</td> <td>NSYTLCEME</td> </tr> <tr> <td>D</td> <td>345</td> <td>130</td> <td>278 x 63</td> <td>NSYTLDEME</td> </tr> <tr> <td>E</td> <td>445</td> <td>130</td> <td>378 x 63</td> <td>NSYTLCEME</td> </tr> <tr> <td>F</td> <td>545</td> <td>130</td> <td>478 x 63</td> <td>NSYTLFME</td> </tr> <tr> <td>G</td> <td>495</td> <td>220</td> <td>428 x 153</td> <td>NSYTLGME</td> </tr> <tr> <td>D (1)</td> <td>345</td> <td>130</td> <td>-</td> <td>2 x NSYTLDEME</td> </tr> <tr> <td>E (1)</td> <td>445</td> <td>130</td> <td>-</td> <td>2 x NSYTLCEME</td> </tr> </tbody> </table>	Type	Plate dimensions (mm)		Effective cable entrance dimensions (mm)	References	Width (A)	Depth (B)	C	245	130	178 x 63	NSYTLCEME	D	345	130	278 x 63	NSYTLDEME	E	445	130	378 x 63	NSYTLCEME	F	545	130	478 x 63	NSYTLFME	G	495	220	428 x 153	NSYTLGME	D (1)	345	130	-	2 x NSYTLDEME	E (1)	445	130	-	2 x NSYTLCEME	<table border="1"> <thead> <tr> <th colspan="3">Dimensions (mm)</th> <th rowspan="2">No. of cable entries</th> <th colspan="6">Diameter of the cable entry (Ø mm)</th> <th rowspan="2">References</th> </tr> <tr> <th>H</th> <th>W</th> <th>D</th> <th>13</th> <th>14</th> <th>15</th> <th>16</th> <th>18</th> <th>21</th> <th>30</th> </tr> </thead> <tbody> <tr> <td colspan="11"><b>Type FL13</b></td> </tr> <tr> <td>20</td> <td>135</td> <td>47</td> <td>7</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> <td>3</td> <td>-</td> <td>NSYAECPLA7</td> </tr> <tr> <td></td> <td></td> <td></td> <td>10</td> <td>6</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> <td>-</td> <td>NSYAECPLA10</td> </tr> <tr> <td colspan="11"><b>Type FL21</b></td> </tr> <tr> <td>25</td> <td>215</td> <td>86</td> <td>25</td> <td>-</td> <td>16</td> <td>-</td> <td>-</td> <td>6</td> <td>-</td> <td>3</td> <td>NSYAECPLA25</td> </tr> <tr> <td></td> <td></td> <td></td> <td>33</td> <td>-</td> <td>24</td> <td>-</td> <td>-</td> <td>9</td> <td>-</td> <td>-</td> <td>NSYAECPLA33</td> </tr> </tbody> </table>	Dimensions (mm)			No. of cable entries	Diameter of the cable entry (Ø mm)						References	H	W	D	13	14	15	16	18	21	30	<b>Type FL13</b>											20	135	47	7	-	-	4	-	-	3	-	NSYAECPLA7				10	6	-	-	4	-	-	-	NSYAECPLA10	<b>Type FL21</b>											25	215	86	25	-	16	-	-	6	-	3	NSYAECPLA25				33	-	24	-	-	9	-	-	NSYAECPLA33
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			33	-	24	-	-	9	-	-	NSYAECPLA33																																																																																																																												
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>PB502035-26</p> <p>Mount FlexiCable on your S3D enclosure.</p> </div> <div style="text-align: center;"> <p>PB501687-31</p> <p>Create a hole with a screw driver.</p> </div> <div style="text-align: center;"> <p>PB501686-30</p> <p>Push the cable through FlexiCable and finish-off your installation.</p> </div> </div>	<div style="display: grid; grid-template-columns: repeat(2, 1fr); gap: 10px;"> <div style="text-align: center;"> <p>PB501687-34</p> <p>NSYAECPLA7</p> </div> <div style="text-align: center;"> <p>PB501688-35</p> <p>NSYAECPLA10</p> </div> <div style="text-align: center;"> <p>PB501689-35</p> <p>NSYAECPLA25</p> </div> <div style="text-align: center;"> <p>PB501700-35</p> <p>NSYAECPLA33</p> </div> </div>																																																																																																																																					

(1) Enclosure with 2 cable-gland plates.

# Cable management

## Cable entries

### Dimensions



Characteristics	Multi-C	Multi-R																																																																																																									
See page	242	242																																																																																																									
Supply	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)	1 unit																																																																																																									
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No. of openings	Dim./ cut-out Ø			Diameter of the cable entry (Ø mm)							References																																																																																																
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8	63.5	-	2	-	4	-	2	NSYTSAM638SE																																																																																																			
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14	112 x 36	-	6	4	-	4	NSY TSA2414SE																																																																																																				
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	<p><b>Position of the holes on the circular cable entries with diameters 50 and 63 mm</b></p>	<p><b>Diagrams of dimensions and position of the holes on a rectangular cable entry</b></p>																																																																																																									
	<p>NSYTSAM504SE NSYTSAM508SE NSYTSAM638SE NSYTSAM6313SE</p>	<p>NSY TSA2414SE NSY TSA2422SE NSY TSA2417SE NSY TSA2423SE NSY TSA2429SE</p>																																																																																																									

# Cable management

## Cable entries

### Dimensions



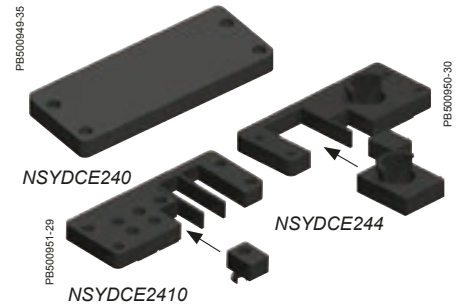
Characteristics	Multi-T												Multi-H				
See page	243												243				
Supply	-												-				
	No. of cable entries	Diameter of the cable entry (Ø mm)										References	Dimensions (mm)			Reference	
		5-7	6-10	8-12	8-16	10-14	12-18	14-20	17-32	20-26	24-54		30-60	L1	L2		H
	<b>Type FL21</b>												<b>Type FL21</b>				
	0	-	-	-	-	-	-	-	-	-	-	-	NSYAECPLBP*	215	85	10	NSYTSKFL
	7	-	-	-	4	-	-	-	-	-	2	1	NSYAECPLT7				
	27	4	-	4	-	13	-	4	-	2	-	-	NSYAECPLT25				
	37	-	4	14	-	16	2	-	1	-	-	-	NSYAECPLT35				
													⊕ M16 or M25 ● M12 ⊕ M12 or M20				

\* Metallic plate.

# Cable management

## Cable entries

### Dimensions



Characteristics	Multi-F										Multi-CR																																		
See page	243										243																																		
Supply	-										1 die and fixing elements																																		
	Dimensions (mm)					Diameter of the cable entry (Ø mm)					References	Connector cut-out type	Number of cable entries	References																															
	L1	L2	H	H2		4-10 mm (1)	M16 (2) (5-10 mm)	M20 (2) (6-13 mm)	M25 (2) (8-17 mm)	M32 or M40 or M50 (3)																																			
	<b>Type FL13</b>																																												
	134	52	6.5	~ 35	10	-	-	1	-	-	NSYAECPKFL11	16	8	NSYDCE168																															
	<b>Type FL21</b>																																												
	214	90	9	~ 35	-	2	2	2	1	1	NSYAECPKFL7A	24	0	NSYDCE240																															
	214	90	9	~ 35	-	4	2	4	-	-	NSYAECPKFL10	24	4	NSYDCE244 (4)																															
												24	10	NSYDCE2410																															
											<b>Cut-out for reference NSYDCE24●●●</b> 																																		
											* Cut-out for reference NSYDCE16●●●.																																		
											<b>Split seals for cable entries equipped with connectors</b>																																		
											<ul style="list-style-type: none"> <li>Split seals suited to the diameter of the cable to be mounted on the cable-entry dies for the connectors. Ref. NSYDCE●●●.</li> <li><b>Supply:</b> 10 units. Reference per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).</li> </ul>																																		
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For cables Ø (mm)**	References																																												
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26-27	NSYCEJD26**																																												
28-29	NSYCEJD28**																																												
30-31	NSYCEJD30**																																												
											** Large seal, 24/4 die only.																																		

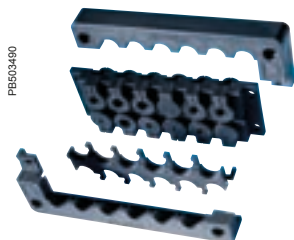
(1) "Pop-out" membranes only.  
 (2) "Pop-out" membranes or cable gland installation.  
 (3) Knock out system.  
 (4) NSYDCE244 accepts 4 entries: 2 large seals and 2 small seals.

# Cable management

## Cable entries

New

### Dimensions



PB503490

Characteristics	Multi-CS				
See page	242				
Supply	1 unit				
	No. of openings	Cut-out dimensions (mm)	Ø of the cable entry (mm)		References
			2-12	12-24	
	12	112 x 36	12	-	NSYDCD2412
	4	112 x 36	-	4	NSYDCD244
	8	112 x 36	6	2	NSYDCD248
	9	112 x 36	8	1	NSYDCD249

### Cable gland

Size of cable gland	Supply	Cable Ø	References
Small	Pack of 12	2-3	NSYCEJDS2
		3-4	NSYCEJDS3
		4-5	NSYCEJDS4
		5-6	NSYCEJDS5
		6-7	NSYCEJDS6
		7-8	NSYCEJDS7
		8-9	NSYCEJDS8
		9-10	NSYCEJDS9
		10-11	NSYCEJDS10
		11-12	NSYCEJDS11
		Large	Pack of 4
13-14	NSYCEJDL13		
14-15	NSYCEJDL14		
15-16	NSYCEJDL15		
16-17	NSYCEJDL16		
17-18	NSYCEJDL17		
18-19	NSYCEJDL18		
19-20	NSYCEJDL19		
20-21	NSYCEJDL20		
21-22	NSYCEJDL21		

### Blanking plugs

Size of cable gland	Supply	References
Small	Pack of 12	NSYCEJDS0
Large	Pack of 4	NSYCEJDL0

# Cable management

## Cable entries

New

### Dimensions



Characteristics		Multi-CF						
See page	243							
Supply	1 unit							
Entries	No. x Ø max. (mm)	Ø of the cable entry (mm)					References	
Total No.		a	b	c	d	e		
14	6 x 9	112	36	65	16	5.5	NSYTLK2414	
	4 x 11							
	4 x 18							
22	16 x 9	112	36	65	16	5.5	NSYTLK2422	
	4 x 11							
	2 x 15							
28	28 x 9	112	36	65	16	5.5	NSYTLK2428	
46	46 x 9	112	36	65	16	5.5	NSYTLK2446	
multi	3 / 27 x 300	112	36	65	16	5.5	NSYTLK24M	

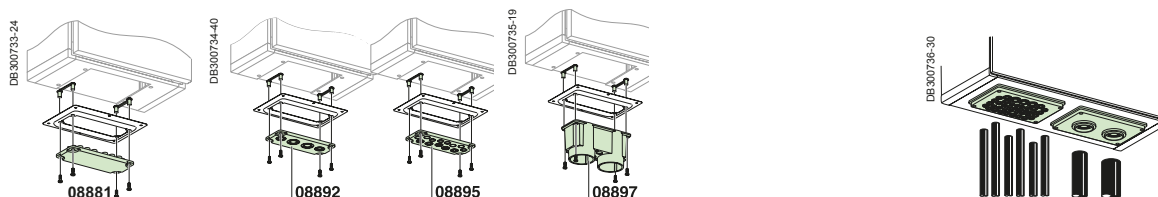
  

The technical drawing shows a rectangular plate with a central opening. Dimension 'a' is the width of the opening, 'b' is the width of the plate, 'c' is the distance from the center of the opening to the side edge, 'd' is the height of the plate, and 'e' is the height of the opening. A circular hole with diameter 'Ø e' is located at the top left corner. The drawing is labeled 'DB301208'.

# Cable management

## Cable entries

### Dimensions



Characteristics	Prisma								
Type	FL21				225 x 137 mm opening				
	Plain	Pre-drilled	Membrane		Pre-drilled				
	Solid cable-gland plates.	Suitable for receiving cable glands with metric pitch.	Membrane to be drilled according to the required diameter.		Suitable for receiving cable glands with metric pitch.				
See page	243								
	Reference	References	No. entries	Amount of entries per Ø	Cable diameter comprised between		Ref.	References	
					Min.	Max.			
	08881	2 x M20 or M32 + 2 x M25 or M40	08892	2	2	28	60	08897	With 39 entries from 7 to 26
		5 x M16 or M25 + 8 x M20	08895						With 2 entries from 33 to 72
									08898*
									08899

\* Reference 08898 is made up of:  
3 cables with diameters from 14 to 26.  
4 cables with diameters from 10 to 20.  
32 cables with diameters from 7 to 16.

### Accessories for Multi-A



2 x 30 + 3 x 18 + 5 x 14 mm.

Characteristics	Cable clamp for improved cable retention					Blanking plugs	
	Installation on FL 21 membrane type "A" for cable entrance to block cables when installed. It can be easily removed.					<ul style="list-style-type: none"> <li>Installation on FL 21 membrane type "A" for cable entrance to fill the opening used.</li> <li>Set of 2 plugs for diameter 30 mm, 3 plugs for diameter 18 mm and 5 plugs for diameter 14 mm.</li> </ul>	
Material	PA6					LDPE	
Installation	<ol style="list-style-type: none"> <li>Push the cable through the membrane entrance to the desired position</li> <li>Put the cable clamp around the cable and slide it into the cable entry</li> <li>Push the cable clamp fully into the membrane entrance and the cable will be fixed</li> </ol>					-	
Other characteristics	Temperature range: -40 to +85°C					Temperature range: -30 to +50°C	
	Cable clamp outer diameter (mm)	Membrane entrance diameter (mm)	Cable diameter range (mm)	Supply	References	Reference	
	15	14	7-9	Set of 8	NSYAECPLACA14	NSYAECPLAP	
	18	18	9-11	Set of 6	NSYAECPLACA18		
	20	18	10-12	Set of 6	NSYAECPLACA20		
	30	30	20-23	Set of 3	NSYAECPLACA30		



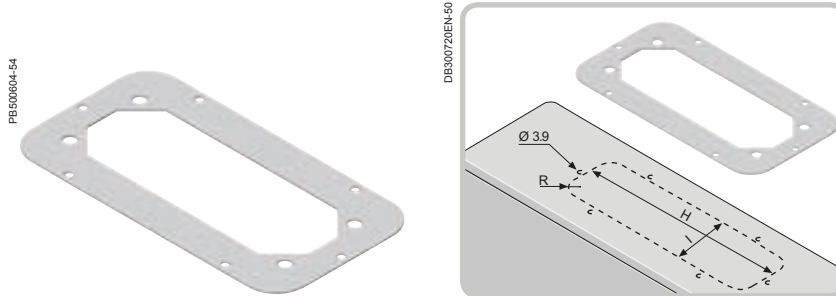
\* Secure your installation with an easy solution for cable anchorage.



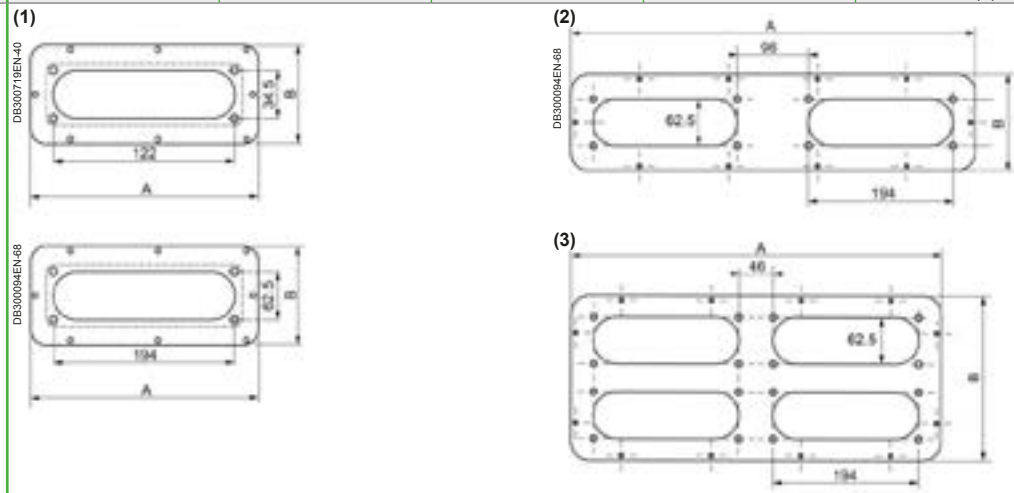
# Cable management

## Cable entries

### Dimensions

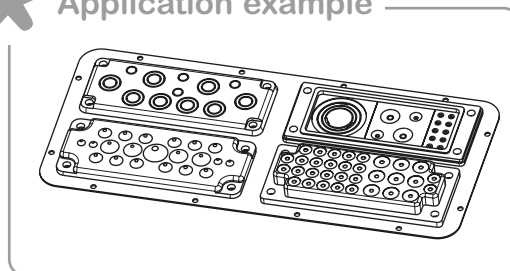


Characteristics		Steel adapter plate for FL13 and FL21 membranes				
		Allows the mounting of FL 13 and FL21 membranes on every type of enclosure.				
Ingress protection rating		IP55 according to IEC 60529				
Supply		Delivered with fixing screws and gasket				
Type		Plate dimensions (mm)		Cut-out dimensions (mm)		References
		A	B	H	I	
FL13	B	245	80	212	47	NSYTLBFL (1)
FL21	C	245	130	212	97	NSYTLCFLL (1)
	D	345	130	312	97	NSYTLDFLL (1)
	E	445	130	412	97	NSYTLFLL (1)
	F	545	130	512	97	NSYTLFFLL (1)
	G	495	220	462	187	NSYTLF2FL (2)
						NSYTLGFL (1)
						NSYTLG2FL (2)
						NSYTLG4FL (3)



Our membrane can be easily adapted to fit onto all our metallic enclosures using the adapter plate.

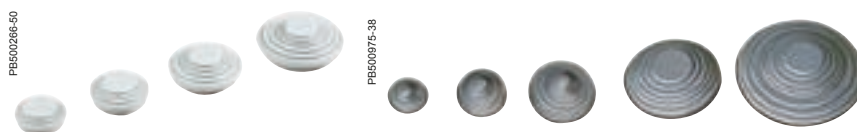
### ★ Application example



# Cable management

## Cable entries

### Dimensions



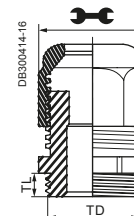
Characteristics	Mixed membrane entries for IP55 direct cable entries				PVC adjustable cone-shaped entries										
See page	244				244										
Supply	Minor packaging of 10 pieces				-										
	Ø (mm)		References		Fig.	Ø A	Ø B*	Ø C	Ø D	E	F	Capacity		Supply	References
	Drill hole	Cable / conduit	RAL 9003	RAL 7035								Cable Ø	Tube		
	23	4 - 20	IMT36130	ISM71071	1	25	21.5	18	5	3.2	13	5 to 18	PG 9 to 11	50	NSYECPC3
	29	4 - 25	IMT36131	ISM71072		33	29.5	26	5	3.2	20	5 to 26	PG 9 to 16	25	NSYECPC5
	36	4 - 32	-	ISM71073		43	38.5	36	5	3.2	22	5 to 36	PG 9 to 21	25	NSYECPC6
	44	4 - 40	-	ISM71074	2	70	63	60	28	3	20	28 to 60	PG 21 to 48	10	NSYECPC9
						98	90	87	28	3	23	28 to 87	PG 21 to 48	10	NSYECPC15

\* Drill-hole for mounting.



Characteristics	ISO cable-gland					
	The cable-gland (ref. <b>IMT36150</b> ) is especially recommended for security circuits.					
See page	244					
Supply	<ul style="list-style-type: none"> <li>■ The cable-glands are supplied with nuts</li> <li>■ Pack of 20 (M12 to M20), 10 (M25 and M32), 5 (M40)</li> </ul>					
Ø	Ø min / max (mm)	Drill Ø (2)	TD	TL		References
M12	3 / 6.5	12.2 (0 + 0.2)	12	6	15	ISM71501
M16	5 / 10	16.2 (0 + 0.2)	16	8	19	ISM71502
M20	6 / 12	20.2 (0 + 0.2)	20	10	24	ISM71503
M20 (1)	6 / 12	20.2 (0 + 0.2)	20	10	24	IMT36150
M25	11 / 17	25.2 (0 + 0.2)	25	8	29	ISM71504
M32	15 / 21	32.2 (0 + 0.3)	32	10	36	ISM71505
M40	19 / 28	40.5 (0 + 0.3)	40	10	46	ISM71506

(1) Cable-gland with high resistance to fire.  
 (2) In brackets: tolerance.



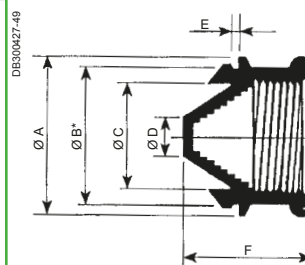
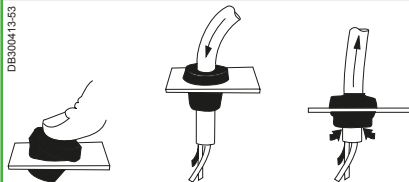
# Cable management

## Cable entries

### Dimensions



Characteristics	IP67 quick cable entries					PVC adjustable cone-shaped entries								
See page	244					244								
	ISO	Ø (mm)	Cable	Supply	Ref.	Ø A	Ø B*	Ø C	Ø D	E	F	Capacity	Supply	Ref.
		Drill hole										Cable Ø	Tube	
	M12	12.5	3 - 5	50	IMT36179	25	19.5	16	3	1.2	21	3 to 16	PG 9	50
	M16	16	5 - 7	50	IMT36180	27	21.5	18	7	1.2	23	7 to 18	PG 13.5	50
	M20	20.3	7 - 10	50	IMT36181	29.5	23.5	20	8	1.2	26	8 to 20	PG 16	25
	M25	25.3	10 - 14	50	IMT36182	35	29.5	26	10	1.2	27	10 to 26	PG 21	25
	M32	32.4	14 - 20	50	IMT36183	52	48.5	44	13	1.5	30	13 to 44	PG 36	25
	M40	40.7	20 - 26	25	IMT36184									
	M50	50.7	26 - 35	25	IMT36185									



\* Drill-hole for mounting.

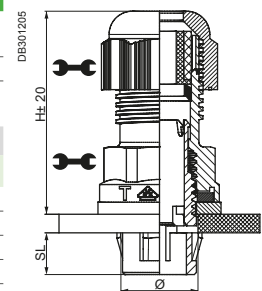


New



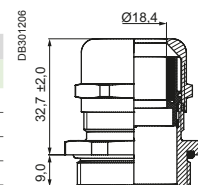
New

Characteristics	Synthetic snap in cable gland							Snap in cable gland disassembling tool	
	Wall thickness : E = 0,5 à 4 mm.							Tool to quickly disassemble cable gland.	
See page	244							-	
Supply	<ul style="list-style-type: none"> <li>The cable-glands are supplied with nuts</li> <li>Pack of 20 (M16 and M20), of 10 (M25 and M32), of 5 (M40)</li> </ul>							<ul style="list-style-type: none"> <li>Plastic</li> </ul>	
Dimensions (mm)	Ø min / max	Drill Ø	SL	SD	H	Wrench	References	References	
M16	5/10	16.2 to 16.4	9	15.9	42.5	22	NSYCGSP16	NSYDT16	
M20	6/12	20.2 to 20.4	9	19.9	41.5	24	NSYCGSP20	NSYDT20	
M25	11/17	25.2 to 25.4	9	24.9	43.5	29	NSYCGSP25	NSYDT25	
M32	15/21	32.2 to 32.4	9	31.9	49.5	36	NSYCGSP32	NSYDT32	
M40	19/28	40.2 to 40.4	11.5	39.9	56	46	NSYCGSP40	NSYDT40	



New

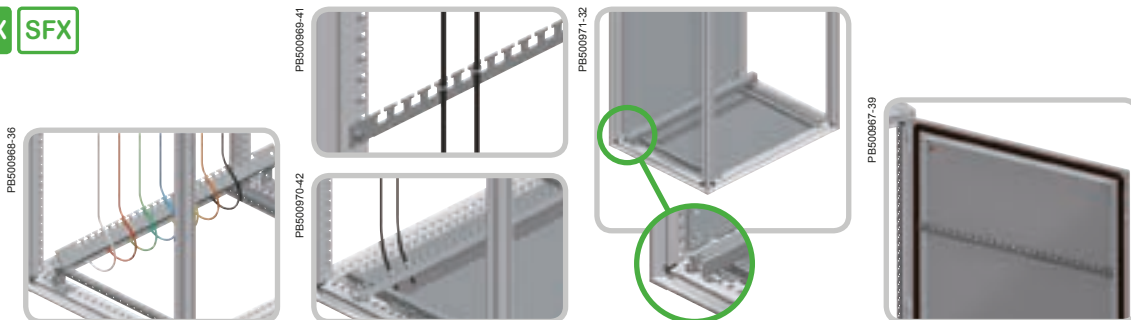
Characteristics	Stainless steel cable gland with lamellar insert						
	Applications: Outdoor, food and beverage industries, pharmaceutical industry and other sensitive applications.						
See page	244						
Supply	<ul style="list-style-type: none"> <li>The cable-glands are supplied with nuts</li> <li>Pack of 5 (M12 and M16), of 4 (M20 and M25), of 2 (M32 and M40)</li> </ul>						
Dimensions (mm)	Ø min / max	Drill Ø	TD	TL	H	Wrench	References
M12	3/6.5	12 to 12.2	12	12	22	14	AISI 304L    AISI 316L
M16	5/10	16 to 16.2	16	12	28.5	20	NSYCGX12    NSYCGX12H
M20	6/12	20 to 20.2	20	12	24	22	NSYCGX16    NSYCGX16H
M25	11/17	25 to 25.2	25	12	32.5	27	NSYCGX20    NSYCGX20H
M32	15/21	32 to 32.3	32	15	36	34	NSYCGX25    NSYCGX25H
M40	19/28	40 to 40.3	40	15	43.5	43	NSYCGX32    NSYCGX32H
							NSYCGX40    NSYCGX40H



# Cable management

## Cable holding

SM SF SMX SFX



Characteristics	Lower cable-guide cross-rail	Cable-guide cross-rails for framework	L-rail for fixing cables	Door cable-guide cross-rail
	<ul style="list-style-type: none"> <li>It allows quick fixing of cables entering and exiting the enclosure.</li> <li>Depth adjustable every 25 mm.</li> </ul>	Support types: <ul style="list-style-type: none"> <li>Angle support at 90°: for vertical cable fixing.</li> <li>Angle support at 120°: for fixing cables near the cable entry.</li> </ul>	<ul style="list-style-type: none"> <li>Rail for fixing cables entering from the bottom.</li> <li>Adjustable depth with a pitch of 25 mm.</li> <li>It is not possible to mount it on a plinth cross rail.</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for fixing cables in the internal equipment of the door.</li> <li>Height adjustable every 25 mm.</li> </ul>
Material	Galvanised steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel
Fixing	<ul style="list-style-type: none"> <li><b>Spacial SF</b>: for suitable enclosures with widths of 1200 and 1600 mm, use the adaptation kit for 2-door suitable enclosures, see page 218</li> <li><b>Spacial SM</b>: for floor-standing enclosures with a width of 1200 mm, a top/bottom mounting rail installed in central position is required</li> <li><b>Spacial SFX</b>: no adaptation piece is required for the 1200 mm suitable enclosures</li> <li><b>Spacial SMX</b>: no adaptation piece is required for the 1600 mm floor-standing enclosures</li> </ul>	<ul style="list-style-type: none"> <li><b>Spacial SF and SFX</b>: support for direct mounting on the framework, cross-rails or rails</li> <li><b>Spacial SM</b>: fixing on the bottom mounting rail, or on the floor-standing enclosure by means of adaptation rails and 40 mm universal cross-rails (1 row) in vertical position</li> <li><b>Spacial SMX</b>: fixing on the bottom mounting rail and 40 mm universal cross-rails (1 row) in vertical position</li> </ul>	<ul style="list-style-type: none"> <li><b>Spacial SF and SFX</b>: fixing to the bottom frame, above the cable entry, or else to the plinth, using the plinth cross rails, see page 92</li> <li><b>Spacial SM and SMX</b>: fixing to the bottom adjustment rails, above the cable entry, or else to the plinth, using the plinth cross rails, see page 92</li> <li>The cables are fixed to the rail by means of metal clamps</li> </ul>	<ul style="list-style-type: none"> <li>Direct fixing on the reinforcement frame</li> </ul>
Supply	1 cable-guide cross-rail and fixing elements	2 supports and fixing elements	One rail, two mounting supports and fixing elements	2 cable-guide cross-rails and fixing elements
<b>Dimensions (mm)</b>	<b>References</b>			
<b>Width (B)</b>		<b>Support angle</b>		
500	-	-	-	<b>NSYSDGCR5</b>
600	<b>NSYCFP60</b>	90° 120°	<b>NSYCF596</b> <b>NSYCF5126</b>	<b>NSYFCG60</b> <b>NSYSDGCR6</b>
800	<b>NSYCFP80</b>	90° 120°	<b>NSYCF598</b> <b>NSYCF5128</b>	<b>NSYFCG80</b> <b>NSYSDGCR8</b>
1000	<b>NSYCFP100</b>	-	-	<b>NSYFCG100</b> <b>NSYSDGCR10</b>
1200	2 x <b>NSYCFP60</b>	-	-	<b>NSYFCG120</b>
1600	2 x <b>NSYCFP80</b>	-	-	<b>NSYFCG160</b>

# Cable management

## Cable holding

S3D S3X



PB50086-48



PB50033-37

Characteristics	Plastic cable support			Door cable-guide cross-rails for wall-mounting enclosures	
	It clips or screws onto 35 mm symmetric rails or a C-shaped rail.			<ul style="list-style-type: none"> <li>They are installed on wall-mounting enclosures with heights from 400 mm for Spacial S3D and 500 mm for Spacial S3X.</li> <li>They make it easy to equip the inside of the door.</li> <li>Installation cable ties, see page 262.</li> </ul>	
Fixing	Quick and easy fixing of cables using cable ties			<ul style="list-style-type: none"> <li>They are fixed to the door reinforcement frame by 2 self-tapping screws. The angle can be directed towards the body of the enclosure or towards the door</li> </ul>	
Supply	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)			2 cable-guide cross-rails and fixing elements	
Dimensions (mm)	Support dimensions (mm)	Maximum no. of cables	References	Door dimensions (mm)	References
	Width			Width	
	75	5	NSYSCCDINLG75	400	NSYTFPCR4
	140	9	NSYSCCDINLG140	500	NSYTFPCR5
				600	NSYTFPCR6
				800	NSYTFPCR8
				1000	NSYTFPCR10

DB300418EN-59

DB300420-25

# Cable management

## Cable ties

P147785



### Benefits

- The cable ties are self-locking. They cannot be opened and re-sealed.
- The cable ties have smooth rounded edges for easier handling and safer installation.
- The bent rounded tip allows easier insertion through the head of the cable tie.
- User friendly re-sealable packaging and documented quality.
- Manufactured and tested to EN62275, RoHS compliant.

P147787



P148324



P148323



P148326



P148300



### Thorsman cable ties

#### Description

- Cable ties are used for a wide range of applications including bundle up and fix cables, conduits and tubing
- Material PA6.6
- Available in black and clear colour
- Max operating temperature -40°C to +85°C
- Minimum installation temperature -20°C.

#### Application

- There are two types of Thorsman cable ties available:
  - made of clear polyamide, for indoor use
  - made of UV-stabilized black polyamide for both indoor and outdoor use

#### Thorsman cable ties (x 100)

Type	Length (mm)	Colour	Qty per package	Ref. No.
<b>Thorsman cable ties</b>				
2.5 mm	100	Clear	100	IMT46026
		Black	100	IMT46033
	120	Clear	100	IMT46035
		Black	100	IMT46036
	160	Clear	100	IMT46074
		Black	100	IMT46073
200	Clear	100	IMT46158	
	Black	100	IMT46157	
3.6 mm	150	Clear	100	IMT46064
		Black	100	IMT46071
	200	Clear	100	IMT46149
		Black	100	IMT46156
	300	Clear	100	IMT46921
		Black	100	IMT46922
4.8 mm	200	Clear	100	IMT46101
		Black	100	IMT46118
	250	Clear	100	IMT46918
		Black	100	IMT46968
	300	Clear	100	IMT46919
		Black	100	IMT46969
370	Clear	100	IMT46248	
	Black	100	IMT46970	
7.6 mm	300	Black	100	IMT46923
	380	Clear	100	IMT46286
			Black	100
8.8 mm	550	Clear	100	IMT46926
		Black	100	IMT46924
	780	Black	100	IMT46927

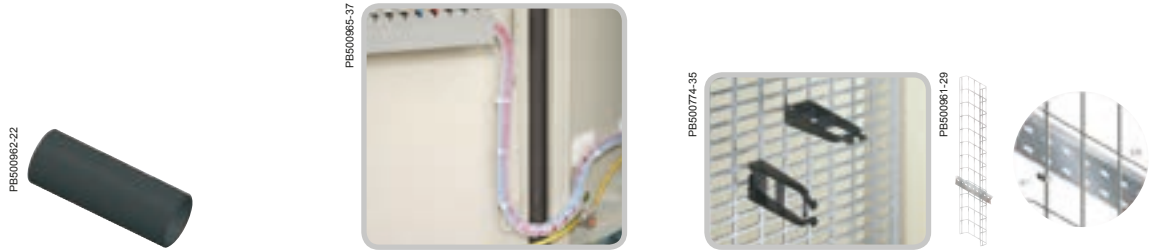
#### Thorsman cable ties (x 20)



Type	Length (mm)	Colour	Qty per package	Ref. No.
<b>Thorsman cable ties</b>				
2.5 mm	100	Black	20	IMT46231
		Clear	20	IMT46221
4.6 mm	200	Black	20	IMT46232
		Clear	20	IMT46222
4.8 mm	280	Black	20	IMT46233
		Clear	20	IMT46223
	380	Clear	20	IMT46224
		Black	20	IMT46234

#### Thorsman accessories

Type	Colour	Qty per package	Dimensions H x W x D (mm)	Ref. No.
Self-adhesive base for fixing of cable ties. There are two sizes base, one for max. tie width 3.6 mm and the other for max. tie width 4.8 mm. Both self-adhesives are using high-end 3M form. There are additional screw-fix option cradle for fixing cable tie and cable tie with identification and marking tab.				
■ Material: PA6.6				
<b>Self-adhesive bases</b>				
For max. tie width 3.6 mm	Clear	100	19/19/5.8	IMT47000
For max. tie width 4.8 mm	Clear	100	28/28/6.4	IMT47001
<b>Cradle</b>				
For max. tie width 7.8 mm	Clear	100	22/16/9.6	IMT47002
<b>Cable tie with ID tab</b>				
Cable tie with ID tab 100 x 2.5 mm	Clear	100	100/2.5	IMT47004

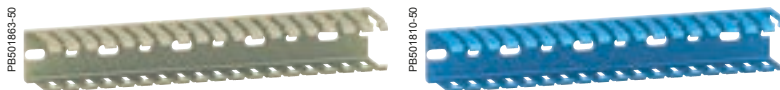
# Cable management Ducts



Characteristics	Corrugated cable tube	Spiral cable duct	Lyre-shaped clamps	Steel wired cable tray																																																	
	<ul style="list-style-type: none"> <li>■ Corrugated tube allowing cable entry between the structure and the door.</li> <li>■ Free from halogens and heavy metals.</li> <li>■ UV protection.</li> </ul>	<ul style="list-style-type: none"> <li>■ Spiral strip for bundling cables.</li> <li>■ Allows cables to enter between the body and the door.</li> </ul>	<ul style="list-style-type: none"> <li>■ Clip-on clamps designed for direct installation on the 19" racks, Telequick mounting plates and symmetric DIN rails.</li> </ul>	<ul style="list-style-type: none"> <li>■ Mounting on the cable supports.</li> <li>■ Dimensions (2 types):                             <ul style="list-style-type: none"> <li>■ 1845 x 200 x 35 mm.</li> <li>■ 1845 x 200 x 54 mm.</li> </ul> </li> </ul>																																																	
Material	Low-density polyethylene (LDPE)	-	-	Zinc-coated steel wire																																																	
Colour	Black	Colourless	Black	-																																																	
Supply	One 25 m reel	One 50 m reel	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)	1 vertical steel wired cable tray and fixing elements																																																	
	<table border="1"> <thead> <tr> <th colspan="3">Ø (mm)</th> <th>References</th> </tr> <tr> <th>Nominal</th> <th>Inner</th> <th>Outer</th> <th></th> </tr> </thead> <tbody> <tr> <td>17</td> <td>16.6</td> <td>21.2</td> <td>NSYCPT17</td> </tr> <tr> <td>29</td> <td>29</td> <td>34.5</td> <td>NSYCPT29</td> </tr> <tr> <td>37</td> <td>36</td> <td>42.4</td> <td>NSYCPT37</td> </tr> <tr> <td>50</td> <td>47.7</td> <td>54.5</td> <td>NSYCPT50</td> </tr> </tbody> </table>	Ø (mm)			References	Nominal	Inner	Outer		17	16.6	21.2	NSYCPT17	29	29	34.5	NSYCPT29	37	36	42.4	NSYCPT37	50	47.7	54.5	NSYCPT50	<table border="1"> <thead> <tr> <th rowspan="2">Tightening range (mm)</th> <th colspan="2">Ø (mm)</th> <th rowspan="2">References</th> </tr> <tr> <th>Inner</th> <th>Outer</th> </tr> </thead> <tbody> <tr> <td>12 to 100</td> <td>9</td> <td>12</td> <td>NSYTC12100</td> </tr> </tbody> </table>	Tightening range (mm)	Ø (mm)		References	Inner	Outer	12 to 100	9	12	NSYTC12100	<table border="1"> <thead> <tr> <th>Use</th> <th>References</th> <th rowspan="2">Necessary depth (mm)</th> <th rowspan="2">References</th> </tr> </thead> <tbody> <tr> <td>For Telequick mounting plates and 19" racks</td> <td>AK2LA39</td> <td>35</td> <td>NSYBPC3</td> </tr> <tr> <td>For symmetric DIN rail 90 x 2.5 mm cables</td> <td>AK2LD01</td> <td>54</td> <td>NSYBPC5</td> </tr> <tr> <td>For symmetric DIN rail 75 x 2.5 mm cables</td> <td>AK2LD02</td> <td></td> <td></td> </tr> </tbody> </table>	Use	References	Necessary depth (mm)	References	For Telequick mounting plates and 19" racks	AK2LA39	35	NSYBPC3	For symmetric DIN rail 90 x 2.5 mm cables	AK2LD01	54	NSYBPC5	For symmetric DIN rail 75 x 2.5 mm cables	AK2LD02		
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37	36	42.4	NSYCPT37																																																		
50	47.7	54.5	NSYCPT50																																																		
Tightening range (mm)	Ø (mm)		References																																																		
	Inner	Outer																																																			
12 to 100	9	12	NSYTC12100																																																		
Use	References	Necessary depth (mm)	References																																																		
For Telequick mounting plates and 19" racks	AK2LA39			35	NSYBPC3																																																
For symmetric DIN rail 90 x 2.5 mm cables	AK2LD01	54	NSYBPC5																																																		
For symmetric DIN rail 75 x 2.5 mm cables	AK2LD02																																																				
<h3>Fixing support for corrugated tube</h3> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>■ Mounting options:</p> <ul style="list-style-type: none"> <li>□ directly on the enclosure,</li> <li>□ on a 19" swing rack and/or on cross-rails, by means of a fixing point.</li> </ul> <p>■ The supports can be assembled with one another to form sets of tubes that allow a better arrangement of the cables.</p> <p>■ It allows the rotation of the tube once it is fixed on the support and prevents the corrugated tube from coming loose if subject to pulling movements.</p> <p>■ <b>Material:</b> polyamide (PA), black.</p> <p>■ <b>Supply:</b> 10 units and fixing elements. The support is supplied with its cover.</p> </div> <div style="width: 45%;">  </div> </div> <table border="1" style="width: 100%;"> <thead> <tr> <th>Model (n. Ø)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>17</td> <td>NSYCPTS17</td> </tr> <tr> <td>29</td> <td>NSYCPTS29</td> </tr> <tr> <td>37</td> <td>NSYCPTS37</td> </tr> <tr> <td>50</td> <td>NSYCPTS50</td> </tr> </tbody> </table> <p><i>n. Ø = nominal diameter.</i></p>					Model (n. Ø)	References	17	NSYCPTS17	29	NSYCPTS29	37	NSYCPTS37	50	NSYCPTS50																																							
Model (n. Ø)	References																																																				
17	NSYCPTS17																																																				
29	NSYCPTS29																																																				
37	NSYCPTS37																																																				
50	NSYCPTS50																																																				

# Cable management

## Ducts



Characteristics			Cable-duct
			With lateral through slots and rear perforations.
Material			Rigid PVC
Colour			RAL 7030 grey or RAL 5000 blue
Standards			Compliance with standards VDE 0660/506 and DIN 43659
Other characteristics			<ul style="list-style-type: none"> <li>■ Temperature resistance: -5 ... +60°C</li> <li>■ Behaviour in fire: material V0 according to UL 94</li> <li>■ Fire resistance: 960°C according to IEC 60695-2-1/1</li> <li>■ Maximum capacity of H07.V.K 1.5 mm<sup>2</sup> flexible wire (filling factor: 0.6)</li> </ul>
Supply			8 units. Supplied in lengths of 2 m
Width (mm)	Height (mm)	Color	References
25	25	Grey	<b>AK2GD2525</b>
	50	Grey	<b>AK2GD2550</b>
30	35	Blue	<b>AK2GA33</b>
	55	Blue	<b>AK2GA35</b>
	90	Blue	<b>AK2GA39</b>
	144	Blue	<b>AK2GA315</b>
37.5	50	Grey	<b>AK2GD3750</b>
	75	Grey	<b>AK2GD3775</b>
50	50	Grey	<b>AK2GD5050</b>
	75	Grey	<b>AK2GD5075</b>
60	55	Blue	<b>AK2GA65</b>
	90	Blue	<b>AK2GA69</b>
	144	Blue	<b>AK2GA615</b>
75	50	Grey	<b>AK2GD7550</b>
	75	Grey	<b>AK2GD7575</b>
100	75	Grey	<b>AK2GD10075</b>
125	75	Grey	<b>AK2GD12575</b>

## Cable-duct accessories



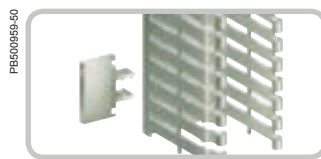
Characteristics	Retention bars	Ø 22 mm cable-duct support	Cable-duct support on technical upright
	<ul style="list-style-type: none"> <li>■ Fixed between 2 cable-duct slats by a hinged screw, preventing cable dropout.</li> <li>■ They can be cut to length to adapt to the width of the ducting.</li> </ul>	Installed on the door of the wall-mounting or floor-standing enclosure associated with Ø 22 mm elements.	Allows cable ducts to be installed on technical uprights, while increasing the usable surface of the equipment (up to 20 % according to the width of the cable duct).
Material	Flameproof high-impact polystyrene	Treated steel	Galvanised steel
Supply	50 units. Reference by unit. Order by multiples of 50 (50, 100, 150...)	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)
References	NSYCDRB	NSYSPCP	NSYCDSD



# Cable management Ducts



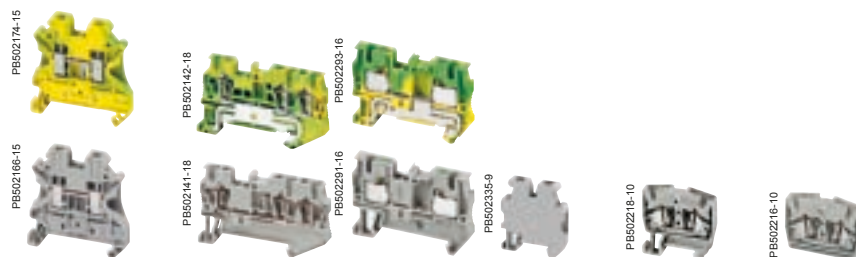
Covers for cable-duct	
Replacement covers.	
Rigid PVC	
RAL 7030 grey or RAL 5000 blue	
Compliance with standards VDE 0660/506 and DIN 43659	
<ul style="list-style-type: none"> <li>■ Temperature resistance: -5 ... +60°C</li> <li>■ Behaviour in fire: material V0 according to UL 94</li> <li>■ Fire resistance: 960°C according to IEC 60695-2-1/1</li> <li>■ Maximum capacity of H07.V.K 1.5 mm<sup>2</sup> flexible wire (filling factor: 0.6)</li> </ul>	
8 unit. Supplied in lengths of 2 m	
<b>AK2CD25</b>	
<b>AK2CA3</b>	
<b>AK2CD37</b>	
<b>AK2CD50</b>	
<b>AK2CA6</b>	
<b>AK2CD75</b>	
<b>AK2CD100</b>	
<b>AK2CD125</b>	



Plastic cable-duct support	Label frame	Insulated-head screw
<ul style="list-style-type: none"> <li>■ Clips onto the Telequick mounting plate or the 35 mm DIN rail.</li> <li>■ Includes a bolt for fixing the cable ducts through the 6.5 x 14 mm drill holes made in the back.</li> <li>■ The 2 functions, clipping and bolting, provide considerable time savings.</li> <li>■ Respects electrical insulation.</li> </ul>	In transparent plastic, clipping onto the slats of the cable ducts.	<ul style="list-style-type: none"> <li>■ M5 x 10 mm slotted hexagonal head.</li> <li>■ Respects electrical insulation.</li> </ul>
Black polyamide. Behaviour in fire: V0 according to UL 94	Polycarbonate	-
20 units. Reference by unit. Order by multiples of 20 (20, 40, 60...)	<ul style="list-style-type: none"> <li>■ 50 units. Reference by unit.</li> <li>Order by multiples of 50 (50, 100, 150...)</li> <li>■ Paper labels supplied</li> </ul>	100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...)
<b>NSYSPC</b>	<b>NSYCDL</b>	<b>NSYSM10M5HP</b>

# Terminal blocks

## Selection guide



Characteristics		Connection technology						
References								
Type of terminal block	Cross section area	Colour	Screw tech	Spring tech	Push-in tech	Miniature screw for 15 mm DIN rail	Miniature spring for 15 mm DIN rail	Miniature spring for direct mount
Passthrough	2.5 mm <sup>2</sup> (2 pts)	Grey	NSYTRV22	NSYTRR22	NSYTRP22	NSYTRV22M	NSYTRR22M	NSYTRR22MF
		Blue	NSYTRV22BL	NSYTRR22BL	NSYTRP22BL	NSYTRV22MBL	NSYTRR22MBL	NSYTRR22MFB
		Orange	NSYTRV22AR	NSYTRR22AR	NSYTRP22AR	-	-	NSYTRR22MFF*
	2.5 mm <sup>2</sup> (3 pts)	Grey	-	NSYTRR23	NSYTRP23	-	-	-
		Blue	-	NSYTRR23BL	NSYTRP23BL	-	-	-
		Orange	-	NSYTRR23AR	NSYTRP23AR	-	-	-
	2.5 mm <sup>2</sup> (4 pts, 1 level)	Grey	-	NSYTRR24	NSYTRP24	-	NSYTRR24M	NSYTRR24M
		Blue	-	NSYTRR24BL	NSYTRP24BL	-	NSYTRR24MBL	NSYTRR24MBL
	2.5 mm <sup>2</sup> (4 pts, 2 levels)	Grey	NSYTRV24D	NSYTRR24D	NSYTRP24D	-	-	-
		Blue	NSYTRV24DBL	NSYTRR24DBL	NSYTRP24DBL	-	-	-
	4 mm <sup>2</sup> (2 pts)	Grey	NSYTRV42	NSYTRR42	NSYTRP42	NSYTRV42M	-	-
		Blue	NSYTRV42BL	NSYTRR42BL	NSYTRP42BL	NSYTRV42MBL	-	-
		Orange	NSYTRV42AR	NSYTRR42AR	-	-	-	-
	4 mm <sup>2</sup> (3 pts)	Grey	NSYTRV43	NSYTRR43	NSYTRP43	-	-	-
		Blue	NSYTRV43BL	NSYTRR43BL	NSYTRP43BL	-	-	-
		Orange	NSYTRV43AR	-	-	-	-	-
	4 mm <sup>2</sup> (4 pts, 1 level)	Grey	NSYTRV44	NSYTRR44	NSYTRP44	-	-	-
		Blue	NSYTRV44BL	NSYTRR44BL	NSYTRP44BL	-	-	-
	4 mm <sup>2</sup> (4 pts, 2 levels)	Grey	NSYTRV44D	NSYTRR44D	-	-	-	-
		Blue	NSYTRV44DBL	NSYTRR44DBL	-	-	-	-
	6 mm <sup>2</sup> (2 pts)	Grey	NSYTRV62	NSYTRR62	-	-	-	-
		Blue	NSYTRV62BL	NSYTRR62BL	-	-	-	-
	10 mm <sup>2</sup> (2 pts)	Grey	NSYTRV102	NSYTRR102	-	-	-	-
Blue		NSYTRV102BL	NSYTRR102BL	-	-	-	-	
16 mm <sup>2</sup> (2 pts)	Grey	NSYTRV162	NSYTRR162	-	-	-	-	
	Blue	NSYTRV162BL	NSYTRR162BL	-	-	-	-	
150 mm <sup>2</sup> (2 pts)	Grey	NSYTRV1502BB	-	-	NSYTRV22MPE	NSYTRR22MPE	-	
Earth protection	2.5 mm <sup>2</sup> (2 pts)	Green	NSYTRV22PE	NSYTRR22PE	NSYTRP22PE	-	-	-
	2.5 mm <sup>2</sup> (3 pts)	Green	-	NSYTRR23PE	NSYTRP23PE	-	-	-
	2.5 mm <sup>2</sup> (4 pts)	Green	-	NSYTRR24PE	NSYTRP24PE	-	-	-
	4 mm <sup>2</sup> (2 pts)	Green	NSYTRV42PE	NSYTRR42PE	NSYTRP42PE	NSYTRV42MPE	-	-
	4 mm <sup>2</sup> (3 pts)	Green	NSYTRV43PE	NSYTRR43PE	NSYTRP43PE	-	-	-
	4 mm <sup>2</sup> (4 pts)	Green	NSYTRV44PE	NSYTRR44PE	NSYTRP44PE	-	-	-
	6 mm <sup>2</sup> (2 pts)	Green	NSYTRV62PE	NSYTRR62PE	-	-	-	-
	10 mm <sup>2</sup> (2 pts)	Green	NSYTRV102PE	NSYTRR102PE	-	-	-	-
16 mm <sup>2</sup> (2 pts)	Green	NSYTRV162PE	NSYTRR162PE	-	-	-	-	
Knife disconnect	2.5 mm <sup>2</sup> (2 pts)	Grey	NSYTRV42ST (1)	NSYTRR22SC	NSYTRP22SC	-	-	-
		Orange	NSYTRV42STAR (1)	NSYTRR22SCAR	-	-	-	-
	2.5 mm <sup>2</sup> (3 pts)	Grey	-	NSYTRR23SC	NSYTRP23SC	-	-	-
		Orange	-	NSYTRR23SCAR	-	-	-	-
		Grey	NSYTRV42SCD (1)	NSYTRR24SCD	-	-	-	-
Fuse disconnect	4 mm <sup>2</sup> (2 pts)	Black	NSYTRV42SF5	-	-	-	-	
	5 x 20 mm fuse	Black (12 V)	NSYTRV42SF5LD (2)	-	-	-	-	
		Black (230 V)	NSYTRV42SF5LA (2)	-	-	-	-	
Basic disconnect (3)	4 mm <sup>2</sup> (2 pts)	Grey	NSYTRV42TB	NSYTRR22TB	NSYTRP42TB	-	-	
Measuring transducer	6 mm <sup>2</sup> (2 pts) disconnect	Grey/Orange	NSYTRV62TTD	-	-	-	-	
	6 mm <sup>2</sup> (2 pts)	Grey	NSYTRV62TT	-	-	-	-	
	6 mm <sup>2</sup> (2 pts)	Green	NSYTRV62TTPE	-	-	-	-	

\* Grey terminal with flange.

(1) 4 mm<sup>2</sup> terminal, with 2 test points.

(2) With light indicator.

(3) Fuse or component carrier not supplied.

# Terminal blocks

## Selection guide



Accessories						
	Miniature spring for direct mount	End plate for screw TBs	End plate for spring TBs	End plate for push-in TBs	Plug-in bridge	Marking strips 10 characters
	NSYTRR22MP	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22	NSYTRAB510
	NSYTRR22MPBL	NSYTRAC22BL	NSYTRACR22BL	NSYTRACR22BL	NSYTRAL23	NSYTRAB520
	-	-	-	-	NSYTRAL24	NSYTRAB530
	-	-	NSYTRACR23	NSYTRACR23	NSYTRAL25	NSYTRAB540
	-	-	NSYTRACR23BL	NSYTRACR23BL	NSYTRAL210	NSYTRAB550
	-	-	-	-	NSYTRAL210BL	...
	NSYTRR24MP	-	NSYTRACR24	NSYTRACR24	NSYTRAL210GR	NSYTRAB590
	NSYTRR24MPBL	-	NSYTRACR24BL	NSYTRACR24BL	NSYTRAL220	NSYTRAB5100
	-	NSYTRACE24	NSYTRACRE24	NSYTRACRE24		NSYTRAB51100
	-	-	-	-		
	-	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42	NSYTRAB610
	-	NSYTRAC22BL	-	-	NSYTRAL43	NSYTRAB620
	-	-	-	-	NSYTRAL44	NSYTRAB630
	-	NSYTRAC23	NSYTRACR43	NSYTRACP43	NSYTRAL45	NSYTRAB640
	-	-	-	-	NSYTRAL410	NSYTRAB650
	-	-	-	-	NSYTRAL410BL	...
	-	NSYTRAC24	NSYTRACR44	NSYTRACP44	NSYTRAL410GR	NSYTRAB690
	-	-	-	-	NSYTRAL420	NSYTRAB6100
	-	NSYTRACE24	NSYTRACRE44	-		NSYTRAB61100
	-	-	-	-		
	-	NSYTRAC22	NSYTRACR62	-	NSYTRAL62	NSYTRAB810
	-	NSYTRAC22BL	-	-	NSYTRAL610	NSYTRAB820
	-	NSYTRAC22	NSYTRACR102	-	NSYTRAL102	NSYTRAB1010
	-	NSYTRAC22BL	-	-	-	NSYTRAB1020
	-	NSYTRAC162	NSYTRACR162	-	NSYTRAL162	NSYTRAB1010
	-	-	-	-	-	NSYTRAB1020
	-	NSYTRAC952	-	-	NSYTRAL1502	-
	-	NSYTRAC22	NSYTRACR22	NSYTRACR22		
	-	-	NSYTRACR23	NSYTRACR23		
	-	-	NSYTRACR24	NSYTRACR24		
	-	NSYTRAC22	NSYTRACR42	NSYTRACR42		
	-	NSYTRAC23	NSYTRACR43	NSYTRACP43		
	-	NSYTRAC24	NSYTRACR44	NSYTRACP44		
	-	NSYTRAC22	NSYTRACR62	-		
	-	NSYTRAC22	NSYTRACR102	-		
	-	NSYTRAC162	NSYTRACR162	-		
	-	Included	NSYTRACR23	NSYTRACPK22		
	-	Included	-	-		
	-	-	NSYTRACR24	NSYTRACPK23		
	-	-	-	-		
	-	NSYTRACE24	Included	-		
	-	Included	-	-		
	-	Included	-	-		
	-	Included	-	-		
	-	Included	NSYTRACR23	NSYTRACR42		
	-	NSYTRACT22	-	-		
	-	NSYTRACT22	-	-		
	-	NSYTRACT22	-	-		

Cable ends compatible with all technologies	
Wires Cross section area	References
0.5 mm <sup>2</sup>	DZ5CE005 DZ5CA005
0.75 mm <sup>2</sup>	DZ5CE007 DZ5CA007
1 mm <sup>2</sup>	DZ5CE010 DZ5CA010
1.5 mm <sup>2</sup>	DZ5CE015 DZ5CA015
2.5 mm <sup>2</sup>	DZ5CE025 DZ5CA025
4 mm <sup>2</sup>	DZ5CE042 DZ5CA042
6 mm <sup>2</sup>	DZ5CE062 DZ5CA062
10 mm <sup>2</sup>	DZ5CA102
16 mm <sup>2</sup>	DZ5CA162
35 mm <sup>2</sup>	DZ5CA352
50 mm <sup>2</sup>	DZ5CA502

# Lighting and power sockets

## LED lamps

New

PB50389-43



Characteristics		Multi-Fixing LED Lamps						
		This LED lamps are designed to optimise the life time, consumption, space and accessibility inside the enclosure, as well as having three fixing option as standard.						
Colour	Black RAL 9005							
Ingress protection rating	IP20 according to IEC60529							
Standards	<ul style="list-style-type: none"> <li>■ IEC 60598</li> <li>■ UL 94: for plastic components</li> <li>■ UL508A: Control Panel</li> </ul>		<ul style="list-style-type: none"> <li>■ UL1598: Lamps</li> <li>■ UL8750: LED for lighting</li> <li>■ EN55015: EMC</li> </ul>					
Other characteristics	<ul style="list-style-type: none"> <li>■ Built-in switch</li> <li>■ Power consumption: 10 W</li> <li>■ Frequency: 50/60 Hz</li> <li>■ Power factor:               <ul style="list-style-type: none"> <li>□ V AC lamps: 0,9</li> <li>□ V DC lamps: 1</li> </ul> </li> <li>■ Luminosity: 640 lm*</li> <li>■ Light Temperature: 4000 K*</li> <li>■ LED service life: 25000 h*</li> </ul>		<ul style="list-style-type: none"> <li>■ Casing: Plastic UL94 V-0</li> <li>■ Degree of insulation:               <ul style="list-style-type: none"> <li>□ Class I - Lamps with socket</li> <li>□ Class II - Lamps without socket</li> </ul> </li> <li>■ Compliant with RoHS and Reach</li> <li>■ Ambiance temperature:               <ul style="list-style-type: none"> <li>□ Operating: -16°C to +65°C (-3°F to +149°F)</li> <li>□ Storage: -10°C to +60°C (-14°F to +140°F)</li> </ul> </li> <li>■ Max. 2 Apms and 5 lamps in serial connection</li> </ul>					
Connections	<ul style="list-style-type: none"> <li>■ 3 m power black or orange cable with quick connector (Not supplied. See reference below)</li> <li>■ 1.5 m interconnection black or orange cable with quick connectors (Not supplied. See reference below)</li> </ul> According to the directive IEC 60204-1: <ul style="list-style-type: none"> <li>■ Black cables: power circuits for switch or DC voltage.</li> <li>■ Orange cables: external voltage that may be present even if the cabinet is turned off.</li> </ul>							
Supply	1 lamp and fixing elements							
Lamp model	Lamps			Cables				
	Socket	References	Standard	Black cables Power (3 m)	Interconnection (1.5 m)	Orange cables Power (3 m)	Interconnection (1.5 m)	
With socket 120 / 230 V AC	SCHUKO	NSYLAMLDS	IEC	NSYLAM3M	NSYLAM1M	NSYLAM3MN	NSYLAM1MN	
	UTE	NSYLAMLDF		NSYLAM3M	NSYLAM1M	NSYLAM3MN	NSYLAM1MN	
	British	NSYLAMLDB		NSYLAM3M	NSYLAM1M	NSYLAM3MN	NSYLAM1MN	
	USA	NSYLAMLDU	UL	NSYLAM3MUL	NSYLAM1MUL	NSYLAM3MULN	NSYLAM1MULN	
Without socket 120 / 230 V AC	-	NSYLAML	IEC	NSYLAM3M	NSYLAM1M	NSYLAM3MN	NSYLAM1MN	
	-		UL	NSYLAM3MUL	NSYLAM1MUL	NSYLAM3MULN	NSYLAM1MULN	
Without socket With presence detection 230 V AC	-	NSYLAMLDD	IEC	NSYLAM3M	NSYLAM1M	NSYLAM3MN	NSYLAM1MN	
	-		UL	NSYLAM3MUL	NSYLAM1MUL	NSYLAM3MULN	NSYLAM1MULN	
Without socket - DC 24-48 V DC	-	NSYLAMLVDC	IEC	NSYLAM3MDC	NSYLAM1MDC	-	-	
	-		UL	NSYLAM3MDCUL	NSYLAM1MDCUL	-	-	

\* Approximate values.

PB501714-55



### Rack for VDI

- 1 U, 19" rack. For lamp installation in VDI enclosures.
- **Supply:** supplied with fixing elements.

### Reference

NSYLAM1U

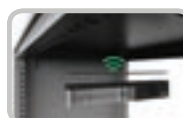
## ★ Fixing options

PB503406-34



Fixing by sliding brackets.

PB503411-34



Fixing to DIN rail.

PB503410-34



Magnetic fixing.

# Lighting and power sockets LED lamps

New



AC model



AC model



DC model



DC model

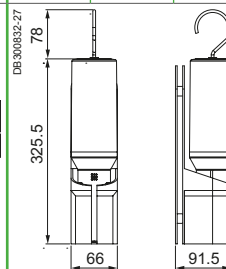
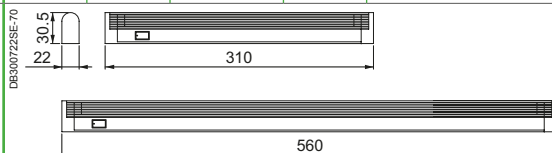
Characteristics	3 pole female connectors	3 pole male connectors
	Designed to connect Multi-Fixing LED Lamps.	
Colour	AC: Black DC: Black (body) and brown (head)	
Ingress protection rating	IP20	
Rated current	16 A	
Rated voltage	250 V	
Strain relief	Yes	
Connection type for cabling	Screw connection	
Material	Polyamide	
Dimensions	<ul style="list-style-type: none"> <li>■ Length: 53.2 mm</li> <li>■ Width: 23 mm</li> <li>■ Height: 13.8 mm</li> </ul>	
Connection data	<ul style="list-style-type: none"> <li>■ Cable diameter: 9 mm</li> <li>■ Cable diameter 2: 5.5 mm</li> <li>■ Cross section solid: 2.5 mm<sup>2</sup></li> <li>■ Cross section solid 2: 0.5 mm<sup>2</sup></li> <li>■ Connection cross section stranded (max.): 2.5 mm<sup>2</sup></li> <li>■ Cross section stranded 2: 0.5 mm<sup>2</sup></li> </ul>	
<b>References</b>		
AC model	NSYLAMACF	NSYLAMACM
DC model	NSYLAMDCF	NSYLAMDCM

# Lighting and power sockets

## LED lamps

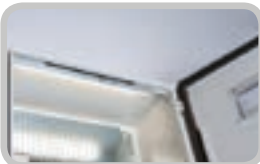


Characteristics	Cost-effective LED Lamps					Portable LED lamp				
	This LED lamp is designed to optimise the cost benefit relation and can be used in almost all enclosures respecting the dimensions. It can be interconnected using a single power source: <ul style="list-style-type: none"> <li>■ 5 W lamps: max. 10 lamps interconnected,</li> <li>■ 10 W lamps: max. 5 lamps interconnected.</li> </ul>					This LED portable lamp is designed to be installed as enclosure lamp or maintenance lamp bringing mobility, resistance, versatility and durability. <ul style="list-style-type: none"> <li>■ Double function:                             <ul style="list-style-type: none"> <li>□ internal enclosure lamp,</li> <li>□ maintenance lamp.</li> </ul> </li> </ul>				
Colour	Aluminium					Black RAL 9005				
Ingress protection rating	IP20 according to IEC60529					IP20 according to IEC60529				
Standards	<ul style="list-style-type: none"> <li>■ IEC 60598</li> </ul>					<ul style="list-style-type: none"> <li>■ IEC 60598</li> <li>■ UL 94: for plastic components</li> </ul>				
Other characteristics	<ul style="list-style-type: none"> <li>■ Built-in switch</li> <li>■ Light Temperature: 4000 K*</li> <li>■ LED service life: 25000 h*</li> <li>■ Casing:                             <ul style="list-style-type: none"> <li>□ Plastic for transparent cover and connectors</li> <li>□ Aluminium for body</li> </ul> </li> <li>■ Degree of insulation: Class I</li> <li>■ Compliant with RoHS and Reach</li> <li>■ Ambiance temperature:                             <ul style="list-style-type: none"> <li>□ Operating: -16°C to +65°C (-3°F to +149°F)</li> <li>□ Storage: -10°C to +60°C (-14°F to +140°F)</li> </ul> </li> </ul>					<ul style="list-style-type: none"> <li>■ E27 LED lamp</li> <li>■ Built-in recessed switch</li> <li>■ Light temperature: 4000 K*</li> <li>■ LED service life: 25000 h*</li> <li>■ Power cable 3 m long with male plug (European standard type)</li> <li>■ Casing: plastic, UL94 V-0</li> <li>■ Degree of insulation: Class II</li> <li>■ Compliant with RoHS and Reach</li> <li>■ Ambiance temperature:                             <ul style="list-style-type: none"> <li>□ Operating: -16°C to +65°C (-3°F to +149°F)</li> <li>□ Storage: -10°C to +60°C (-14°F to +140°F)</li> </ul> </li> </ul>				
Supply	<ul style="list-style-type: none"> <li>■ 1 lamp and fixing elements</li> <li>■ 3 m connection cable with quick connector</li> <li>■ 1 m interconnection cable with quick connectors</li> </ul>					<ul style="list-style-type: none"> <li>■ 1 lamp with 3 m power cable with European universal plug</li> <li>■ 1 fix base</li> <li>■ Fixing elements</li> </ul>				
Voltage	Power	Power factor	Frequency	Luminous flux	References	Power	Power factor	Frequency	Luminous flux	Reference
(V)	(W)		(Hz)	(lm)*		(W)		(Hz)	(lm)*	
120/230 V AC	5	0.8	50-60	500	NSYLAMT5LD1	10	0,5	50-60	1100	NSYLAMPORLTD
	10	0.9	50-60	1100	NSYLAMT5LD2					
24/48 V DC	5	1	-	470	NSYLAMT5LD1VDC	-	-	-	-	-




\* Approximate values.

### ★ Fixing options



PB503412-34


Magnetic fixing.



PB503419-34

Fixing by adapter brackets.

### ★ Use options



PB503414-34

Fixing by adhesive or by screws.



PB503414-27

Used on workbench.

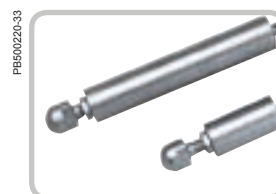
# Floor accessories

## Casters and feet for floor-standing enclosures



Characteristics	Transport casters*	Enclosure casters
	<ul style="list-style-type: none"> <li>Quick installation on plinths with heights of 100 and 200 mm, except the plinth for enclosure sets.</li> <li>They can be installed in front or side position.</li> <li>Clipping and fixing to the corner by screws.</li> <li>For use on flat surfaces.</li> <li>Height: 110 mm.</li> </ul>	<ul style="list-style-type: none"> <li>Double casters.</li> <li>Height: 92 mm.</li> <li>Diameter: 64 mm.</li> </ul>
Maximum load	200 kg	135 kg per caster 1000 kg when it is installed directly on the upright, 400 kg when it is installed on the frame
Supply	4 transport casters (2 with a blocking system) and fixing elements	4 casters and fixing elements
<b>References</b>		
	<b>NSYSTW</b> 	<b>NSYSW</b>

\* Only for Spacial SM, SF and SD.



Characteristics	Levelling feet		Hygienic stainless-steel feet
	Fixed	Adjustable	
	Height: 42 mm.	Height: 22 mm.	Hygienic feet specific for harsh environments. Adjustable: 140 to 200 mm.
Material	Steel	-	316L stainless steel
Maximum load	400 kg	-	800 kg
Supply	Set of 4 floor feet		Set of 4 hygienic feet
<b>References</b>			
	<b>NSYSPSJ</b>	<b>NSYSPRJ</b>	<b>NSYPHX200</b>

# Door accessories

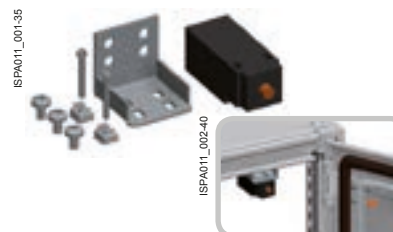
## Switches and pockets

### Switches

S3D S3X

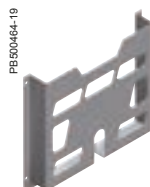


SM SF SFX



Characteristics	Door switch for wall-mounting enclosures	Door switch for floor-standing enclosures	
	<ul style="list-style-type: none"> <li>Switch/commutator unit equipped with support and fixings for direct fixing to the enclosure.</li> <li>Can be used to control lighting, air-conditioning units, etc.</li> <li>It is not compatible with installing the 19" swing rack and the internal door.</li> <li>NC + NO contact, 10 A/500 V.</li> </ul>	<ul style="list-style-type: none"> <li>The switch is fixed to the structure of the enclosure.</li> <li>Drilled M20 cable entry for cable gland.</li> <li>NC + NO contact, 10 A/500 V.</li> </ul>	
Supply	1 door switch and fixing elements	1 door switch and fixing elements	
	<b>Reference</b> <b>NSYINLCRN</b>	<b>For ranges</b> SF & SFX SM	<b>References</b> <b>NSYDCM20</b> <b>NSYDPCM20</b>

### Pockets



SM SF SMX SFX



Characteristics	Plastic document pocket	Metal document pocket			
	Attachment made by adhesive tape.	Direct fixing on the door reinforcement frame. Height adjustable in steps of 25 mm.			
Material	Polystyrene (PS)	Steel			
Finish	-	Structured finish, epoxy-polyester powder			
Colour	RAL 7035 grey (NSYDPA4: RAL 9001)	RAL 7035 grey			
Maximum load	-	-			
Supply	1 plastic document pocket	1 metal document pocket and fixing elements			
<b>Dimensions (mm)</b>	<b>References</b>				
<b>Doc. format</b>	<b>A</b>	<b>B</b>	<b>C</b>		
A5	174	188	22	<b>NSYDPA5</b>	-
A4	230	247	23	<b>NSYDPA4</b>	-
A4	234	278	40	<b>NSYDPA44 (1)</b>	-
A3	285	476	35	<b>NSYDPA3</b>	-
<b>Width (D)</b>					
600	-	-	-		<b>NSYSDP6M</b>
800	-	-	-		<b>NSYSDP8M</b>

(1) Not compatible with 19" chassis or modular distribution.



# Door accessories

## Door accessories for floor-standing enclosures

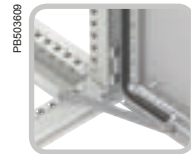
**SM** **SF** **SMX** **SFX**



**SM**



**SF**



Characteristics	Folding support tray	Door cross rails	Floor-standing door retainer
	<ul style="list-style-type: none"> <li>Adjustable horizontal support for laptop computers, documents or any other elements.</li> <li>Mounting on the door reinforcement frame.</li> <li>It can also be mounted on door cross-rails.</li> <li>Height adjustable in steps of 25 mm.</li> <li>In 1000-mm-wide enclosures, any size can be mounted using door cross-rail ref. NSYSDCR10.</li> <li>4 positions: 45°, 60°, 75° and 90°.</li> </ul>	<ul style="list-style-type: none"> <li>Direct mounting cross rails on the profiles of the reinforcement frame of the door.</li> <li>Adjustable height with a pitch of 25 mm.</li> </ul>	<ul style="list-style-type: none"> <li>Door blocker at the opening limit.</li> <li>It is fixed directly to the front frame of the enclosure and to the reinforcement frame of the door.</li> <li>It can be installed on doors that open both to the right and to the left.</li> </ul>
Material	Steel	Galvanised steel	-
Finish	Structured finish, epoxy-polyester powder	-	-
Colour	RAL 7035 grey	-	-
Thickness	15/10 <sup>o</sup> mm	20/10 <sup>o</sup> mm	-
Maximum load	30 kg	-	-
Supply	1 folding support tray and fixing elements	2 cross rails and bag of fixings	Door stop and fixing elements
<b>Dimensions (mm)</b>	<b>References</b>		
<b>Width (B)</b>			
400	-	<b>NSYSDCR4</b>	-
500	<b>NSYSDT5</b>	<b>NSYSDCR5</b>	-
600	<b>NSYSDT6</b>	<b>NSYSDCR6</b>	-
800	<b>NSYSDT8</b>	<b>NSYSDCR8</b>	-
1000	-	<b>NSYSDCR10</b>	-
<b>Door stop model</b>			<b>For enclosures</b>
Mechanical	-	-	Spacial SF
	-	-	Spacial SM
Pneumatic	-	-	Spacial SF
	-	-	Spacial SM
			<b>Limit</b>
			90° and 120°
			90°
			120°
			90° and 120°
			<b>References</b>
			<b>NSYSFMDR</b>
			<b>NSYSMDR</b>
			<b>NSYSFNDR</b>
			<b>NSYSMNR*</b>

\* Compatible with SFX.

# Door accessories

## Door accessories for wall-mounting enclosures

S3D



PBE00223-45

S3D



PBE00893-40

Characteristics	Wall-mounting door retainer	
	<b>Steel</b> To block the door in the open position. <ul style="list-style-type: none"> <li>■ It is installed on enclosures with heights from 400 mm and widths from 300 mm.</li> <li>■ Door opening angle: 120°.</li> <li>■ Earthing connection of the enclosure by means of the reinforcement rail.</li> <li>■ Earthing accessories supplied with the enclosure (earth-connection wire to be ordered separately), see page 277.</li> <li>■ Warning: cannot be installed on 19" mounting plates or on enclosures equipped with internal door.</li> </ul>	<b>Polyamide</b> To block the door in the open position. <ul style="list-style-type: none"> <li>■ It is installed on the perforated rails of the enclosure doors at the required height.</li> <li>■ It is only installed on enclosures with a height of less than 400 mm (no perforated rails).</li> </ul>
Material	Steel	Polyamide 6 (PA6)
References	NSYAEDRSCST	NSYAEDRS3DPA6

# Door accessories

## Windows

PB500984-41



PB500985-23



PB500986-33

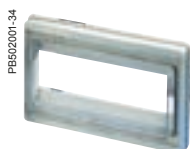


Characteristics	Window for modular equipment						Plastic window		
	They provide viewing and access to the inside of the enclosure while keeping the IP65 protection degree.						Plastic window with hinged cover for installation on front panel. ■ External dimensions: 213 x 133 mm. ■ Internal dimensions of the window: 180 x 78 mm.		
Material	Transparent polycarbonate						■ Cover: polycarbonate ■ Body: PVC		
Ingress protection rating	IP65 according to IEC 60529						IP55 according to IEC 60529		
Supply	1 window						1 plastic window delivered with a drilling template		
	N.° of modules	Fig. n.°	A	B	C		References		Reference
					Low cover	High cover	Low cover	High cover	
	2	1	78	60	15	25	NSYVA272M	NSYVA272MA	NSYMW10M
	4	1	78	95	15	25	NSYVA274M	NSYVA274MA	
	6	1	78	130	15	25	NSYVA276M	NSYVA276MA	
	8	1	78	165	15	25	NSYVA278M	NSYVA278MA	
	10	1	78	200	15	25	NSYVA2710M	NSYVA2710MA	
	12	1	78	235	15	25	NSYVA2712M	NSYVA2712MA	
	16	2	195	165	13	-	NSYVA2716M	-	
	24*	2	196	235	13	-	NSYVA2724M	-	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>DE300441</p> <p>Fig. 1</p> </div> <div style="text-align: center;"> <p>DE300442</p> <p>Fig. 2</p> </div> </div>									

\* In 2 rows.

# Door accessories

## Windows



Characteristics	Plastic window for modular equipment	Control window
	Frame with transparent hinged cover for mounting modular switchgear on the front panel. Opening: 46 x 180 mm (10 modules).	<ul style="list-style-type: none"> <li>■ To prevent accidental handling of the control units by any unauthorised person.</li> <li>■ Allows all the displayed information to be read without opening the door.</li> <li>■ Equipped with hinges for opening (180°).</li> <li>■ Closure by a n° 2233X lock.</li> <li>■ Indoor and outdoor installation.</li> </ul>
Material	<ul style="list-style-type: none"> <li>■ Cover: polycarbonate</li> <li>■ Body: PVC</li> </ul>	Aluminium frame and 3-mm acrylic window
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529
Supply	1 modular front panel	1 window, fixings and instruction sheet
	<b>Reference</b>	<b>Dimensions (mm)</b>
		<b>References</b>
	<b>NSYMW10MK</b>	<b>A</b>
		<b>B</b>
		300
		300
		400
		400
		500
		500
		600
		600
		500
		400
		400
		500
		500
		600
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		500
		600
		600
		800
		800
		600
		600
		600
		600
		NSYCW33
		NSYCW44
		NSYCW45
		NSYCW46
		NSYCW54
		NSYCW55
		NSYCW56
		NSYCW65
		NSYCW66
		NSYCW86
	<b>Kit for fixing the switchgear</b>	
	<ul style="list-style-type: none"> <li>■ The unit is delivered assembled.</li> <li>■ <b>Supply:</b> 1 DIN rail and two supports.</li> </ul>	
	<b>Reference</b>	
	<b>NSYMW10MR</b>	
		<b>DB30M831EN</b>

### ★ Mounting example

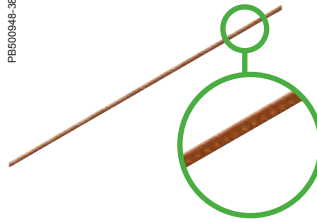


NSYMW10MK + NSYMW10MR.

# Other accessories

## Earthing accessories

PB500948-38



SM SF SD SMX SFX SDX

PB500959-18



Characteristics	Earthing strip	Central earthing point
	<ul style="list-style-type: none"> <li>Perforated brass bar, 15 x 3 mm.</li> <li>1 m long.</li> <li>87 connection points, M5 drill holes.</li> </ul>	<ul style="list-style-type: none"> <li>Connects earthing braids and cables to the structure of the enclosure.</li> <li>The earth connection is made by means of the M8 x 18 mm bolt.</li> </ul>
Fixing	-	Fixing to the structure by means of self-tapping screws
Supply	1 earthing strip and fixing elements	1 central earthing point, elements for fixing to the structure, and fixings for fixing to the bolt

**References**

NSYECB1M153

S3D S3X

PB501000-42



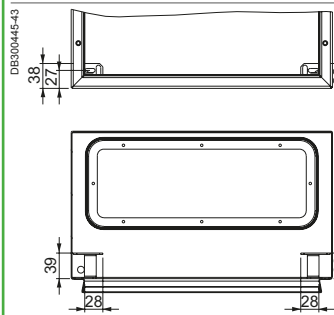
**Fixing lugs for the earthing strip**

- They allow the mounting of an earth-collector rail or a DIN rail at the top and bottom of an enclosure.
- Mounting incompatible with certain accessories. Please consult us.
- Fixing:** on holes made in the gutter of the enclosure.
- Supply:** 2 lugs and fixings.

**Reference**

NSYEDCOS

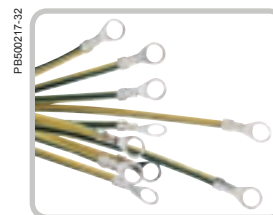
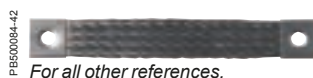
DB300445-43



NSYCEP

# Other accessories

## Earthing and paint accessories



Characteristics				Earth braids	Earth cables
Material				Guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.	Make it easier to install a safe earth connection, with a perfect contact, with optimised length.
Supply				Tinned copper	Brass and copper alloy terminal, green and yellow PVC insulating sheath
				10 earth braids (nuts and washers not included). Reference by unit. Order by multiples of 10 (10, 20, 30...)	10 earth cables (nuts and washers not included). Reference by unit. Order by multiples of 10 (10, 20, 30...)
Length (mm)	Width (mm)	Section (mm <sup>2</sup> )	Terminal Ø (mm)	References	
130	-	6	6.4	-	NSYEL136D6
150	12	6	6.5	NSYEB156D6	-
	17	10	6.5	NSYEB1510D6	-
155	17	16	8.5	NSYEB1516D8	-
160	-	6	6.4	-	NSYEL166D6
	-	6	8.3	-	NSYEL166D8
170	-	10	8.3	-	NSYEL1710D6
200	27	25	8.5	NSYEB2025D8	-
	33	50	8.5	NSYEB2050D8	-
220	-	6	6.4	-	NSYEL226D6
	-	6	13	-	NSYEL226D13
	-	25	8.3	-	NSYEL2225D8
250	-	10	6.4	-	NSYEL2510D6
350	-	25	8.3	-	NSYEL3525D8



Characteristics	Aerosol paint can	Paint touch-up	Renovation and anti-graffiti paint		
	<ul style="list-style-type: none"> <li>Air-drying paint.</li> <li>Content: 150 g.</li> </ul>	<ul style="list-style-type: none"> <li>Paint for touching up with a brush.</li> <li>Air-drying paint.</li> </ul>	Paint kit with 2 components (base 80 % + hardener 20 %), specially designed for polyester enclosures, for their renovation and/or as prevention to allow removal of graffiti.		Solvent for diluting the paint and cleaning the utensils.
Supply	-	-	The 1 kg reference includes 1 pot with 800 g of base paint and 200 g of hardener (It is enough to paint a surface of around 5 m <sup>2</sup> )	The 5 kg reference includes 1 pot with 4 kg of base paint and 1 kg of hardener (It is enough to paint a surface of around 25 m <sup>2</sup> )	1 kg
Colour	References				
RAL 7032	NSYBPA7032	NSYTUP7032	-	-	-
RAL 7035	NSYBPA7035	NSYTUP7035	NSYAUPG1G	NSYAUPG5G	NSYAUPGS



# Applicative and customised solutions



# Applicative and customised solutions

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# Enclosures for power distribution (terminal blocks)

## Introduction

➤ The **Spacial S3DB enclosure** is made to be equipped with terminal blocks. It is ready to be equipped with a ladder mounting plate and a symmetrical DIN rail (to be ordered separately). The body does not have cable gland opening. The **Spacial S3DB enclosure** is the ideal coupling enclosure with FL21 cut-out.

PB500228-90



### Safety

Welding studs on door and body (earth cables to be ordered separately).

PB500228-35



### Smart

Example of installation with the ladder mounting plate.

PB500200-42



Vertical position.



PB500200-45



Horizontal position.

PB500201-50



# Terminal blocks

## Characteristics



Characteristics	Spacial S3DB	Spacial S3DBFL		
	<p><b>Body</b> Single-piece body, folded and welded. Front rail with double sheet thickness, guttershaped.  <ul style="list-style-type: none"> <li>■ Depth 150 mm.</li> </ul>                     The terminal enclosure can be installed vertically (the width becomes the height).  <ul style="list-style-type: none"> <li>■ Wall-mounting directly or by means of fixing lugs (to be ordered separately).</li> <li>■ 4 M8 x 25 shouldered backstuds.</li> <li>■ Body without cable-gland openings.</li> </ul> </p> <p><b>Door</b>  <ul style="list-style-type: none"> <li>■ Easily removable and reversible door, with 20-mm return with double sheet thickness granting excellent rigidity; equipped with 2 hinges opening to 180°.</li> <li>■ Door opening to 180° for maximum accessibility (the door comes to rest on the body of the enclosure in top position).</li> <li>■ Maximum acceptable load on the door: 20 kg/m².</li> <li>■ Wall-mounting enclosure supplied with 3-mm double-bar lock as standard.</li> <li>■ M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure.</li> </ul> </p> <p><b>Dedicated accessories</b> The terminal enclosure, with a depth of 150 mm, can be equipped:  <ul style="list-style-type: none"> <li>■ With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds. See page 17.</li> <li>■ With a symmetrical rail to be installed on the rails. See page 232.</li> <li>■ With a 6-mm² earth braid to be placed between the body and the door.</li> </ul>                     It can also be equipped with a plain mounting plate, see page 206.</p>	<p><b>Body</b> Single-piece body, folded and welded. Front rail with double sheet thickness, guttershaped.  <ul style="list-style-type: none"> <li>■ Wall-mounting directly or by means of fixing lugs (to be ordered separately).</li> <li>■ 4 M8 x 25 shouldered backstuds.</li> <li>■ Body with FL21-type cable-gland opening on the bottom of the enclosure (blanking plate ref. <b>NSYAECPLBP</b> to be ordered separately).</li> </ul> </p> <p><b>Door</b>  <ul style="list-style-type: none"> <li>■ Easily removable and reversible door, with 20-mm return with double sheet thickness granting excellent rigidity; equipped with 2 hinges opening to 180°.</li> <li>■ Door opening to more than 180° for maximum accessibility (the door comes to rest on the body of the enclosure in top position). To be ordered separately, see page 68 reference <b>NSYAEDH180S3D</b>.</li> <li>■ Maximum acceptable load on the door: 50 kg/m².</li> <li>■ Wall-mounting enclosure supplied with 3-mm double-bar lock as standard.</li> <li>■ M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure.</li> </ul> </p> <p><b>Dedicated accessories</b> The terminal enclosure, with a depth of 170 mm, be equipped:  <ul style="list-style-type: none"> <li>■ With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds. See page 17.</li> <li>■ With a symmetrical rail to be installed on the rails. See page 232.</li> <li>■ With a 6-mm² earth connection to be placed between the body and the door.</li> </ul>                     It can also be equipped with a plain mounting plate, see page 206.</p>		
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder		
Colour	RAL 7035 grey	RAL 7035 grey		
Ingress protection rating	IP66 according to IEC 60529	IP65 (with blanking plate ref. <b>NSYAECPLBP</b> ) according to IEC 60529		
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262		
<b>References</b>				
<b>Height (A) (mm)</b>	<b>Width (B) (mm)</b>	<b>Depth (C) (mm)</b>		
250	300	150	<b>NSYS3DB25315</b>	-
		400	<b>NSYS3DB25415</b>	-
		500	<b>NSYS3DB25515</b>	-
300	300	150	<b>NSYS3DB3315</b>	-
		170	-	<b>NSYS3DBFL3317</b>
	400	150	<b>NSYS3DB3415</b>	-
		170	-	<b>NSYS3DBFL3417</b>
		500	<b>NSYS3DB3515</b>	-
		600	<b>NSYS3DB3615</b>	-
400	300	150	<b>NSYS3DB4315</b>	-
		170	-	<b>NSYS3DBFL4317</b>
		800	<b>NSYS3DB4815</b>	-
500	400	150	<b>NSYS3DB5415</b>	-
600	400	150	<b>NSYS3DB6415</b>	-

# Enclosures for power distribution (terminal blocks)

## Dimensions

### Spacial S3DB

A: Enclosure height

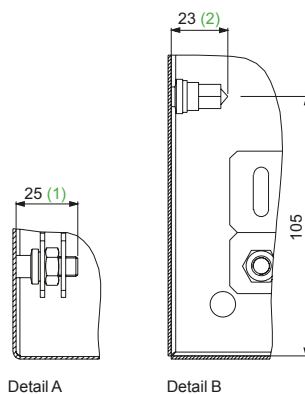
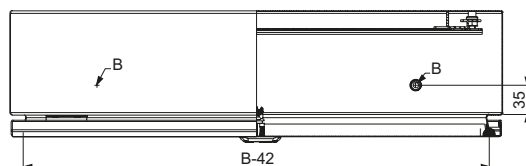
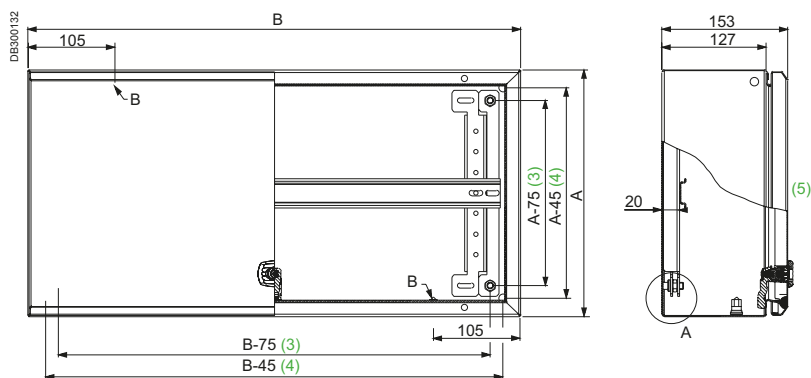
B: Enclosure width

C: Enclosure depth

- (1) With ladder mounting plate installed.
- (2) M6 x 17.5 mm earthing stud.
- (3) Stud centre-to-centre distance.
- (4) Centre-to-centre distance of the holes for direct fixing.
- (5) Drop-leaf door.

The provided dimensions are with the ladder mounting plate, which is the most commonly used accessory with this enclosure.

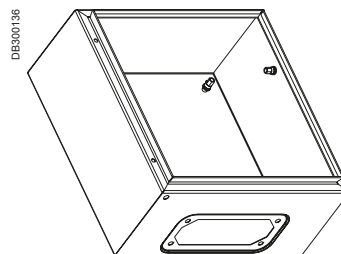
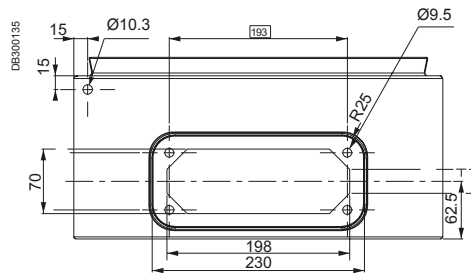
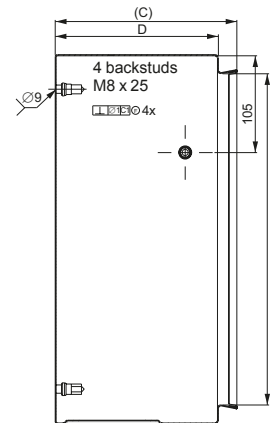
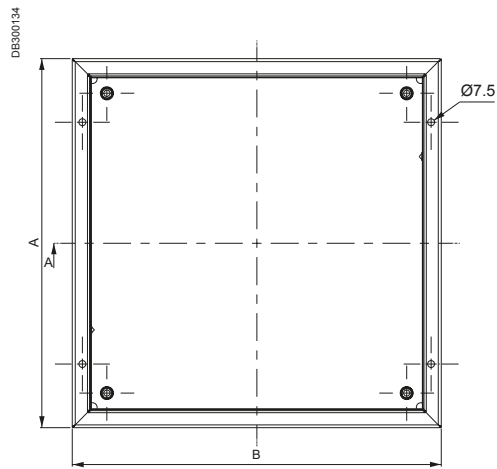
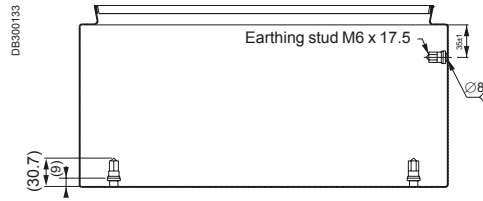
FB560228-44



# Enclosures for power distribution (terminal blocks)

## Dimensions

### Spacial S3DBFL



# Modular wall-mounting enclosures

## Introduction

➤ The **Spacial S3DM enclosure** for modular switchgear can be equipped with:

- a modular chassis (NSYDLM•••) with cut-out front panels for 24 to 234 modules according to the dimensions and references,
- a 6 mm<sup>2</sup> earth connection placed between the body and the door.

The enclosure can be equipped with accessories from the Spacial standard wall-mounting range.

PB500087



S3DM enclosure (standard delivery).

PB500406-30



S3DM enclosure equipped with a DLM modular chassis.

PB500407-32



### Easily removable and reversible door

- With 20 mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges.
- Three locking points for heights of more than 600 mm.
- Perforated rails on the hinge side of the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm.

PB500408-23



### Dedicated accessories

The DLM modular chassis consists of metal cut-out front panels which can clip on with any screws. Rigid structure made from galvanised steel. The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.

For enclosures with a depth of 150 mm, the chassis can be installed at the front or on the backstuds at the rear. It is possible to adjust its depth using the adjustable supports (NSYSDCR•• type). It can also be equipped with a plain mounting plate, see page 206.

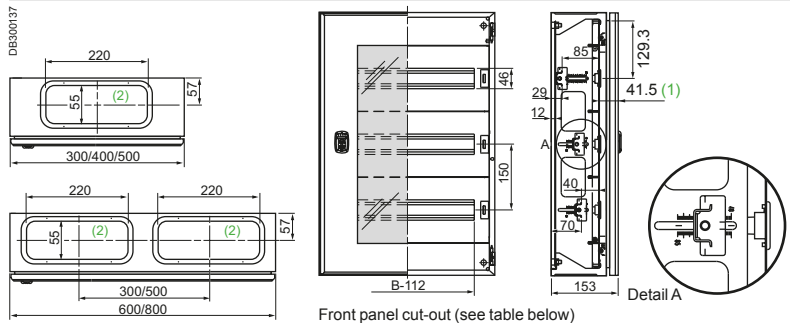
# Modular wall-mounting enclosures

## Characteristics



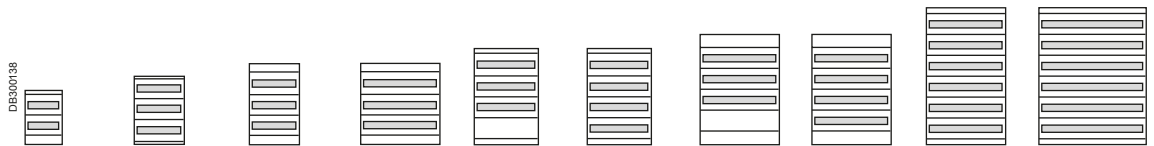
Characteristics	Spacial S3DM
	<ul style="list-style-type: none"> <li>Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped.</li> <li>4 M8 x 25 mm shouldered backstuds for installing chassis and step slides, leaving a space of 10 mm behind them.</li> <li>Cable-gland plate (245 x 80) at the top and bottom of the enclosure, guaranteeing the maximum access surface (also available in plain door).</li> </ul>
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP66 according to IEC 60529
Mechanical protection rating	IK08 according to IEC 62262
Supply	Wall-mounting enclosure supplied with 3 mm double-bar lock as standard

References			
Height (mm)	Width (mm)	Depth (mm)	
400	300	150	NSYS3DM4315T
500	400	150	NSYS3DM5415T
600	400	150	NSYS3DM6415T
	600	150	NSYS3DM6615T
700	500	150	NSYS3DM7515T
800	600	150	NSYS3DM8615T
1000	600	150	NSYS3DM10615T
	800	150	NSYS3DM10815T



- (1) Front face of the modular chassis / front face of the door.
- (2) Cable-gland plates at the top and bottom of the enclosure.

### Number of modules per chassis\*\* (every 18 mm)



Chassis reference	NSYDLM24	NSYDLM48*	NSYDLM48P*	NSYDLM84P*	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n° of modules	24	48	48	84	66	88	84	112	168	234

\* References NSYDLM48, NSYDLM48P and NSYDLM84P, the central row cannot receive modules at the height of the lock (check our technical instructions) when installed at the front of the enclosure. In this case, 1 module is sealed up.

\*\* DLM modular chassis.

The provided dimensions are with the modular chassis, which is the most commonly used accessory with this enclosure.

# Modular wall-mounting enclosures

## Accessories

CRN S3D S3X



Characteristics			DLM modular chassis	Plain front panel	Plain mounting plate
			<ul style="list-style-type: none"> <li>The chassis consists of metal cut-out front panels, which can be clipped on without screws.</li> <li>The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.</li> </ul>	Metal front panels to be clipped on without screws.	Mounting plate for fixing non-modular devices.
Material			Rigid galvanised-steel structure	-	Galvanised steel
Finish			Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	-
Colour			RAL 7035 grey	RAL 7035 grey	-
Thickness			-	-	20/10° mm
Supply			-	2 plain front panel and fixings	2 plain chassis and fixings
Height (mm)	Width (mm)	Number of modules*	References		
400	300	24	<b>NSYDLM24</b>	<b>NSYCTL300DLM</b>	<b>NSYPMP300DLM</b>
500	400	48	<b>NSYDLM48</b>	<b>NSYCTL400DLM</b>	<b>NSYPMP400DLM</b>
600	400	48	<b>NSYDLM48P</b>	<b>NSYCTL400DLM</b>	<b>NSYPMP400DLM</b>
	600	84	<b>NSYDLM84P</b>	<b>NSYCTL600DLM</b>	<b>NSYPMP600DLM</b>
700	500	66	<b>NSYDLM66</b>	<b>NSYCTL500DLM</b>	<b>NSYPMP500DLM</b>
	500	88	<b>NSYDLM88</b>	<b>NSYCTL500DLM</b>	<b>NSYPMP500DLM</b>
800	600	84	<b>NSYDLM84</b>	<b>NSYCTL600DLM</b>	<b>NSYPMP600DLM</b>
	600	112	<b>NSYDLM112</b>	<b>NSYCTL600DLM</b>	<b>NSYPMP600DLM</b>
1000	600	168	<b>NSYDLM168</b>	<b>NSYCTL600DLM</b>	<b>NSYPMP600DLM</b>
	800	234	<b>NSYDLM240</b>	<b>NSYCTL800DLM</b>	<b>NSYPMP800DLM</b>

Front-panel cut-out

Detail A  
Rail adjustment: 45 mm

\* 1 module = 2 steps = 18 mm.

### Number of modules per chassis in steps of 18 mm

Chassis reference	NSYDLM24	NSYDLM48*	NSYDLM48P*	NSYDLM84P*	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n. of modules	24	48	48	84	66	88	84	112	168	234

\* For references **NSYDLM48**, **NSYDLM48P** and **NSYDLM84P** on Spacial wall-mounting enclosures the central row can only receive modules at the height of the lock when installed at the front of the enclosure. In this case, 1 module is sealed up (check our technical instructions).



# Modular wall-mounting enclosures Accessories

**CRN S3D\* S3X**

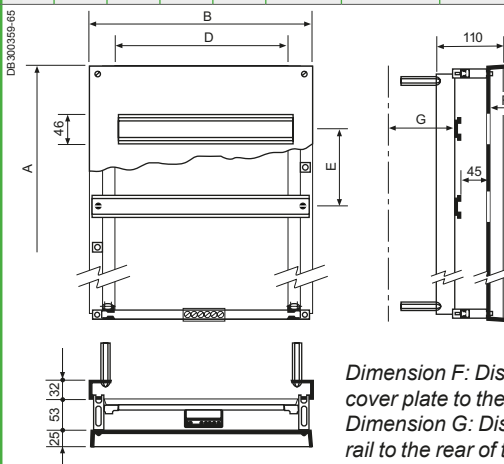
\* For Spacial S3D please consult us.



## Characteristics DL modular chassis\*

- Dinimel chassis designed for devices with heights of 53 and 68 mm, which can be coupled directly to the enclosure plate-support bolts.
- Distance between device rail and protective cover plate: 45 mm.

Material	Steel												
Finish	Metal protective cover plate												
Colour	RAL 7035 grey												
For coupling to the enclosures with normal or transparent door			Dimensions (mm)							No. of 18-mm modules	No. of rows	Approx. weight (kg)	References
Height	Width	Depth	A	B	D	E	F***	G					
300	250	150**	255	205	162	120	41	51	18	2	1.2	NSYDLCR18	
400	300	150**	355	255	216	160	41	51	24	2	1.7	NSYDLCR24	
	300	150**	355	255	216	110	41	51	36	3	1.7	NSYDLCR36	
500	400	150**	455	355	288	130	41	51	48	3	2.4	NSYDLCR48	
	400	150/200	555	355	288	130	41	51/101	64	4	3.3	NSYDLCR64	
600	500	150/200	555	455	396	130	41	51/101	88	4	4.5	NSYDLCR88	
	700	500	655	455	396	125	41	101	110	5	5.1	NSYDLCR110	
800	600	200	755	555	486	140	41	101	135	5	7.5	NSYDLCR135	



Dimension F: Distance from the protective cover plate to the inside of the door.  
Dimension G: Distance from the device-support rail to the rear of the enclosure.

\* For Spacial S3D please consult us.

\*\* For coupling to enclosures with a depth of 200 mm, the stand-offs (ref. NSYEX608) are to be ordered separately (4 per chassis).

\*\*\* For enclosures with transparent door, the F dimension is reduced by 4 mm.



## Characteristics Blanking plate

Blanking plate for full or partial covering of the circuit-breaker windows; it can easily be cut to the required size.

Material	Plastic		
Length (mm)	No. of modules	Colour	References
72	4	RAL 7032	NSYATP72G
72	4	RAL 7035	NSYATP72M
108	6	RAL 7035	NSYATP6DTM
432	24	RAL 7035	NSYATP24DTM
1100	-	RAL 7035	NSYATPUND

# Accessories for modular floor-standing enclosures

## Modular floor-standing enclosures



### Introduction

■ The modular distribution system is made up of a range of accessories prepared for forming electric panels with high distribution capacity.

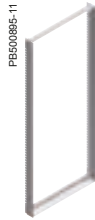
■ The accessories are installed on a chassis mounted at the front of the enclosure, such as:

- cover plates for enclosures with widths of 600 and 800 mm, solid or cut-out in screwed-on or hinged versions. They cover 24 or 36 modules per row, depending on the width of the enclosure,
- material support rails, fixed or with adjustable depth,
- mounting plate supports for coupling non-modular equipment,
- supports for fixing cable-distribution cable ducts.

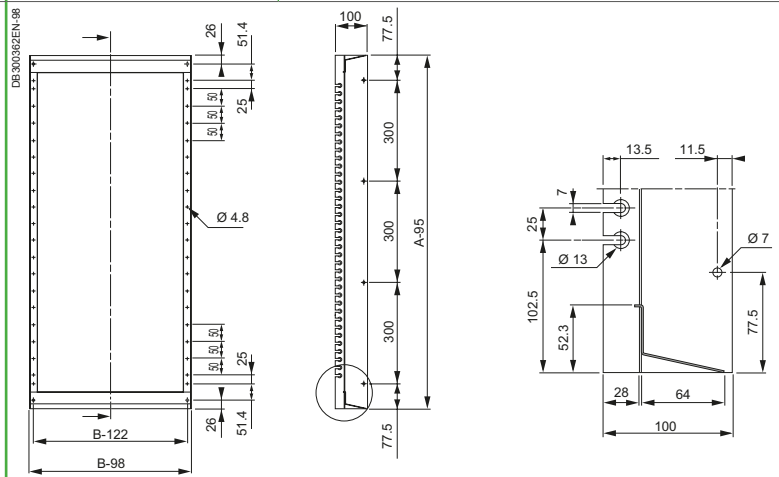
■ Sets of accessories made up of material-supporting frames with chassis and cover plates are offered for the construction of double or busbar modular chassis. All the accessories of the individual chassis system can also be combined in the same way with the double chassis or with the chassis with busbar area.

# Accessories for modular floor-standing enclosures

## Modular chassis



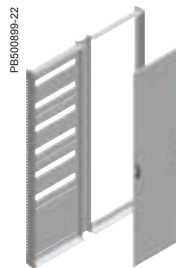
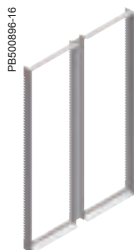
Characteristics		Single-chassis coupling set	
		<ul style="list-style-type: none"> <li>■ Chassis made up of vertical uprights and horizontal crossbars:</li> <li>□ <b>Spacial SF</b>: they are screwed to the front frame of the enclosure.</li> <li>□ <b>Spacial SM</b>: they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 227.</li> <li>■ Easy access to the inside for component installation.</li> </ul>	
Material		Steel	
Finish		Structured finish, epoxy-polyester powder	
Colour		RAL 7035 grey	
Supply		2 vertical uprights, 2 horizontal crossbars and fixing elements	
Height (A)	Width (B)	Maximum no. of 18-mm modules	References
1200	600	144	NSYCSH126
	800	216	NSYCSH128
1400	600	192	NSYCSH146
	800	288	NSYCSH148
1600	600	216	NSYCSH166
	800	324	NSYCSH168
1800	600	240	NSYCSH186
	800	360	NSYCSH188
2000	600	288	NSYCSH206
	800	432	NSYCSH208



\* Installation example: see page 293.

# Accessories for modular floor-standing enclosures

## Modular chassis

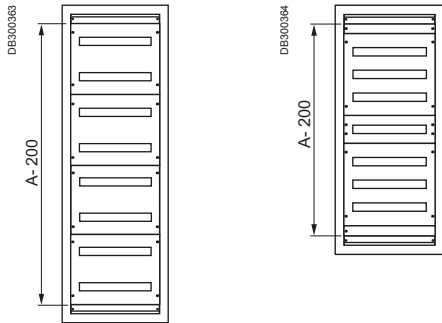


Characteristics		Double-chassis coupling set*			Chassis-coupling set with zone for busbars*		
		<ul style="list-style-type: none"> <li>■ Mounting on enclosures with widths of 1200 and 1600 mm.</li> <li>■ <b>Spacial SF</b>: the double-door enclosure adaptation kit is required for enclosure widths of 1200 and 1600 mm, see page 218.</li> <li>■ <b>Spacial SM</b>: they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 227.</li> </ul> For enclosures with a width of 1200 mm the top/bottom adjustment rails are necessary. <ul style="list-style-type: none"> <li>■ Set made up of two modular chassis with an intermediate central upright.</li> </ul>			<ul style="list-style-type: none"> <li>■ Set for mounting on enclosures with widths of 1000 and 1200 mm.</li> <li>■ <b>Spacial SF</b>: they are screwed to the front frame enclosure.</li> <li>■ <b>Spacial SM</b>: they are screwed to the front frame of the enclosure by means of the vertical and horizontal adaptation profiles, see page 227.</li> <li>■ Assembly made up of a modular chassis with an intermediate central upright and a blanking cover plate for busbars (width 300 mm).</li> </ul>		
Material		Steel			Steel		
Finish		Structured finish, epoxy-polyester powder			Structured finish, epoxy-polyester powder		
Colour		RAL 7035 grey			RAL 7035 grey		
Supply		2 single-chassis coupling sets, 1 intermediate central upright and fixing elements			1 single-chassis coupling set, 1 intermediate central upright, 1 busbar blanking cover plate and fixing elements		
Height (A)	Width (B)	Maximum no. of 18-mm modules	Set made up of columns with a width (mm)	References	Maximum no. of 18-mm modules	Set made up of columns with a width (mm)	References
1400	1000	-	-	-	192	600 + 400	NSYCSHB1410
	1200	384	600 + 600	NSYDCSH1412	288	800 + 400	NSYCSHB1412
1600	1000	-	-	-	216	600 + 400	NSYCSHB1610
	1200	432	600 + 600	NSYDCSH1612	324	800 + 400	NSYCSHB1612
1800	1000	-	-	-	240	600 + 400	NSYCSHB1810
	1200	480	600 + 600	NSYDCSH1812	360	800 + 400	NSYCSHB1812
	1600	720	800 + 800	NSYDCSH1816	-	-	-
2000	1000	-	-	-	288	600 + 400	NSYCSHB2010
	1200	576	600 + 600	NSYDCSH2012	432	800 + 400	NSYCSHB2012
	1600	864	800 + 800	NSYDCSH2016	-	-	-

\* Installation example: see page 293.

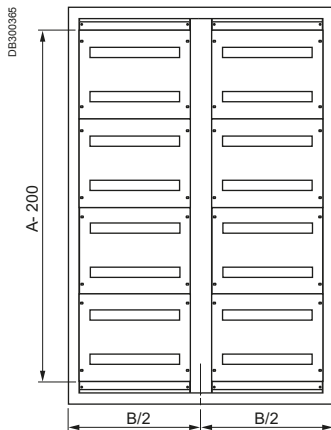
# Accessories for modular floor-standing enclosures

## Installation examples



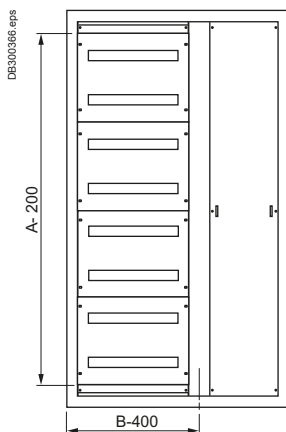
Combination of cut-out, screwed-on cover plates and single-chassis coupling set

Dimensions (mm)		No. of 18-mm modules	References		
H (A)	W (B)		1 single-chassis coupling set	5 screwed-on cut-out cover plates	2 adjustment cover plates
1800	600	240	1 x NSYCSH186	5 x NSYMUC306	1 x NSYADC16



Combination of cut-out, screwed-on cover plates and double-chassis coupling set

Dimensions (mm)			No. of 18-mm modules	References		
H (A)	W (B)	D (C)		1 double-chassis coupling set	12 screwed-on cut-out 300-mm cover plates	Double-door enclosure adaptation kit
2000	1200	500	576	1 x NSYDCSH2012	12 x NSYMUC306	NSYSMP2D5
	1600	500	864	1 x NSYDCSH2016	12 x NSYMUC308	-



Combination of cut-out, screwed-on cover plates and chassis-coupling set with busbar zone

Dimensions (mm)		No. of 18-mm modules	References		
H (A)	W (B)		1 chassis-coupling set with zone for busbars	5 screwed-on cut-out 300-mm cover plates	2 adjustment cover plates
1800	1000	240	1 x NSYCSHB1810	5 x NSYMUC306	1 x NSYADC16
	1200	360	1 x NSYCSHB1812	5 x NSYMUC308	1 x NSYADC18

# Accessories for modular floor-standing enclosures

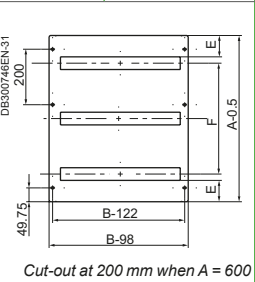
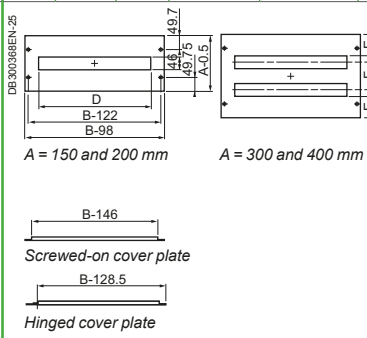
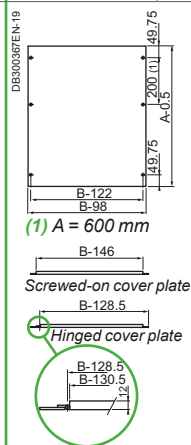
## Accessories

### Cover plates



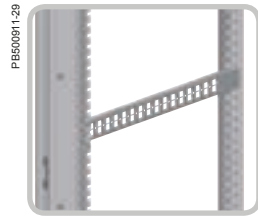
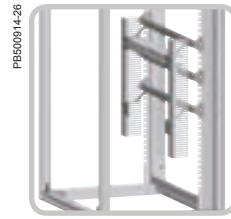
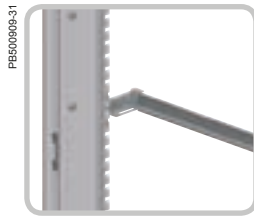
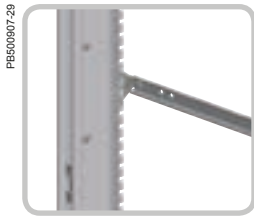
Characteristics	Plain cover plates	Cut-out cover plates	Adjustment cover plates
	<ul style="list-style-type: none"> <li>■ Metal cover plates for protecting control devices.</li> <li>■ The cut-outs in non-modular control devices is at user's request.</li> <li>■ Suitable by modules of 150 or 200 mm.</li> <li>■ Versions:                             <ul style="list-style-type: none"> <li>□ screwed-on plain cover plate,</li> <li>□ hinged plain cover plate.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>■ Cut-out metal cover plates for modular switchgear (1 module = 18 mm).</li> <li>■ Suitable by modules of 150 or 200 mm.</li> <li>□ cover plates for 600-mm width enclosures: 24 modules per row,</li> <li>□ cover plates for 800-mm width enclosures: 36 modules per row.</li> <li>■ Versions:                             <ul style="list-style-type: none"> <li>□ screwed-on cut-out cover plate,</li> <li>□ hinged cut-out cover plate. 120° opening with flat hinge.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>■ Metal adjustment cover plates designed to complete the front of the modular chassis according to the combinations made by modules of 150 or 200 mm.</li> </ul>
Material	Steel	Steel	Steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
Fixing	-	-	-
Supply	1 plain cover plate and fixing elements	1 cut-out cover plate and fixing elements	2 adjustment cover plates and fixing elements

Height (A)	Width (B)	Screwed-on plain cover plate references	Hinged plain cover plate references	D	E	F	No. of cut-outs	Max. no. of 18-mm modules	Screwed-on cut-out cover plate references	Hinged cut-out cover plate references	References
50	600	-	-	-	-	-	-	-	-	-	NSYADC16
	800	-	-	-	-	-	-	-	-	-	NSYADC18
150	600	NSYMPC156	NSYMPCH156	432	-	-	1	24	NSYMUC156	NSYMUCH156	-
	800	NSYMPC158	NSYMPCH158	642	-	-	1	36	NSYMUC158	NSYMUCH158	-
200	600	NSYMPC206	NSYMPCH206	432	-	-	1	24	NSYMUC206	NSYMUCH206	-
	800	NSYMPC208	NSYMPCH208	642	-	-	1	36	NSYMUC208	NSYMUCH208	-
300	600	NSYMPC306	NSYMPCH306	432	51.75	150	2	48	NSYMUC306	NSYMUCH306	-
	800	NSYMPC308	NSYMPCH308	642	-	-	2	72	NSYMUC308	NSYMUCH308	-
400	600	NSYMPC406	NSYMPCH406	432	76.75	200	2	48	NSYMUC406	NSYMUCH406	-
	800	NSYMPC408	NSYMPCH408	642	-	-	2	72	NSYMUC408	NSYMUCH408	-
450	600	NSYMPC456	NSYMPCH456	432	51.75	150	3	72	NSYMUC456	NSYMUCH456	-
	800	NSYMPC458	NSYMPCH458	642	-	-	3	108	NSYMUC458	NSYMUCH458	-
600	600	NSYMPC606	NSYMPCH606	432	76.75	200	3	72	NSYMUC606	NSYMUCH606	-
	800	NSYMPC608	NSYMPCH608	642	-	-	3	108	NSYMUC608	NSYMUCH608	-



# Accessories for modular floor-standing enclosures

## Accessories

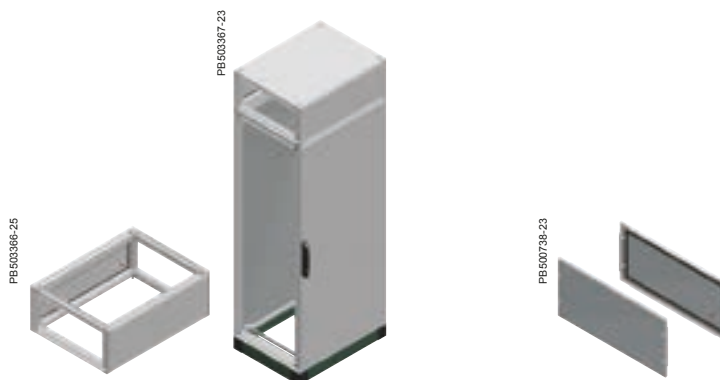


Set of fixed rail with supports	Set of depth-adjustable rail with supports	Cable duct fixing supports	Reinforced plate supports																		
<ul style="list-style-type: none"> <li>Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and fixed mounting supports, for the installation of modular devices or not.</li> <li>Maximum number of 18-mm modules:                             <ul style="list-style-type: none"> <li>enclosure width 600 mm: 24 modules,</li> <li>enclosure width 800 mm: 36 modules.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and depth adjustable mounting supports, for the installation of modular devices or not.</li> <li>Maximum number of 18-mm modules:                             <ul style="list-style-type: none"> <li>enclosure width 600 mm: 24 modules,</li> <li>enclosure width 800 mm: 36 modules.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Supports for fixing cable-distribution gutters in the modular chassis.</li> <li>Allows the fixing of gutters in horizontal and vertical position on the same plane to facilitate cable distribution.</li> </ul>	Supports for fixing the partial mounting plate for small non-modular equipment or material-supporting cross rails for heavy equipment. See partial mounting plate, page 212.																		
Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel																		
-	-	-	-																		
Mounting by screws directly on the uprights of the chassis-coupling set	Mounting by screws directly on the uprights of the modular chassis-coupling set	Installation by screws directly on the rail supplied with the fixed or adjustable rail	Direct fixing by screws to the vertical uprights of the modular chassis-coupling set, and at the rear directly to the structure (Spacial SF) and on universal or quick-fixing cross rails (see page 223) installed vertically in the back of the enclosure (Spacial SM)																		
1 DIN rail, 2 fixed supports and fixing elements	1 DIN rail, 2 adjustable supports and fixing elements	6 supports (3 on the right and 3 on the left) and fixing elements	2 supports and fixing elements																		
References	References	References	References																		
NSYMFSC60	NSYMFSC60D	NSYMCDFIX	<table border="1"> <thead> <tr> <th>Depth (C)</th> <th>No. of cut-outs (Ø 5.2 mm)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>300</td> <td>4</td> <td>NSYMPS30</td> </tr> <tr> <td>400</td> <td>8</td> <td>NSYMPS40</td> </tr> <tr> <td>500</td> <td>12</td> <td>NSYMPS50</td> </tr> <tr> <td>600</td> <td>16</td> <td>NSYMPS60</td> </tr> <tr> <td>800</td> <td>24</td> <td>NSYMPS80</td> </tr> </tbody> </table>	Depth (C)	No. of cut-outs (Ø 5.2 mm)	References	300	4	NSYMPS30	400	8	NSYMPS40	500	12	NSYMPS50	600	16	NSYMPS60	800	24	NSYMPS80
Depth (C)	No. of cut-outs (Ø 5.2 mm)	References																			
300	4	NSYMPS30																			
400	8	NSYMPS40																			
500	12	NSYMPS50																			
600	16	NSYMPS60																			
800	24	NSYMPS80																			
NSYMFSC80	NSYMFSC80D	NSYMCDFIX																			
NSYMFSC60	NSYMFSC60D	NSYMCDFIX																			
NSYMFSC80	NSYMFSC80D	NSYMCDFIX																			
NSYMFSC60	NSYMFSC60D	NSYMCDFIX																			
NSYMFSC80	NSYMFSC80D	NSYMCDFIX																			
NSYMFSC60	NSYMFSC60D	NSYMCDFIX																			
NSYMFSC80	NSYMFSC80D	NSYMCDFIX																			
NSYMFSC60	NSYMFSC60D	NSYMCDFIX																			
NSYMFSC80	NSYMFSC80D	NSYMCDFIX																			
NSYMFSC60	NSYMFSC60D	NSYMCDFIX																			
NSYMFSC80	NSYMFSC80D	NSYMCDFIX																			
NSYMFSC60	NSYMFSC60D	NSYMCDFIX																			
NSYMFSC80	NSYMFSC80D	NSYMCDFIX																			
<p><b>Fixed supports with no rail</b></p> <p><b>Supply:</b> 2 fixed supports and fixing elements.</p> <p><b>Reference</b> NSYMF51</p>	<p><b>Adjustable supports with no rail</b></p> <p><b>Supply:</b> 2 adjustable supports and fixing elements.</p> <p><b>Reference</b> NSYMF51D</p>																				

# Accessories for low voltage switchboards

## Top busbar chamber

### Top busbar chamber



Characteristics			Top busbar chamber	Side panels for the top busbar chamber
			Chamber which protects and supports the sets of horizontal bars. Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment. It is only installed at the top of the enclosure.	Set of two side panels for coupling with the busbar chamber. Captive screws.
Material			Steel	Steel
Finish			Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour			RAL 7035 grey	RAL 7035 grey
Ingress protection rating			IP55 according to IEC 60529	-
Supply			<ul style="list-style-type: none"> <li>■ One structure of the busbar chamber as a kit</li> <li>■ Two front panels</li> <li>■ Reinforced coupling kit</li> <li>■ One sealing gasket</li> </ul>	Two side panels and fixing elements
Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)	References	
300	300	500	<b>NSYTBC335</b>	<b>NSYSPBC35</b>
		600	<b>NSYTBC336</b>	<b>NSYSPBC36</b>
400	300	800	<b>NSYTBC338</b>	<b>NSYSPBC38</b>
		500	<b>NSYTBC345</b>	<b>NSYSPBC35</b>
		600	<b>NSYTBC346</b>	<b>NSYSPBC36</b>
600	300	800	<b>NSYTBC348</b>	<b>NSYSPBC38</b>
		500	<b>NSYTBC365</b>	<b>NSYSPBC35</b>
		600	<b>NSYTBC366</b>	<b>NSYSPBC36</b>
800	300	800	<b>NSYTBC368</b>	<b>NSYSPBC38</b>
		500	<b>NSYTBC385</b>	<b>NSYSPBC35</b>
		600	<b>NSYTBC386</b>	<b>NSYSPBC36</b>
1000	300	800	<b>NSYTBC388</b>	<b>NSYSPBC38</b>
		500	<b>NSYTBC3105</b>	<b>NSYSPBC35</b>
		600	<b>NSYTBC3106</b>	<b>NSYSPBC36</b>
1200	300	800	<b>NSYTBC3108</b>	<b>NSYSPBC38</b>
		500	<b>NSYTBC3125</b>	<b>NSYSPBC35</b>
		600	<b>NSYTBC3126</b>	<b>NSYSPBC36</b>
		800	<b>NSYTBC3128</b>	<b>NSYSPBC38</b>

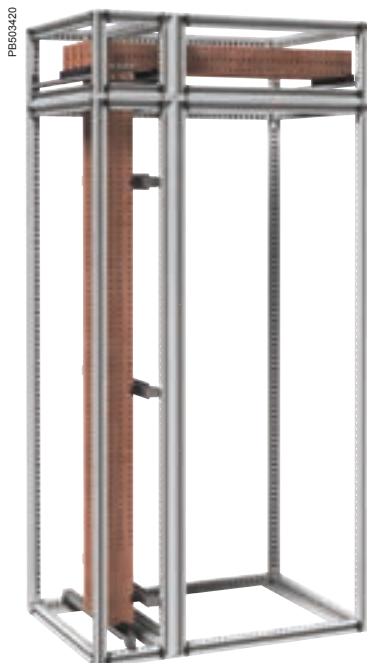


# Accessories for low voltage switchboards

## Side busbar chamber



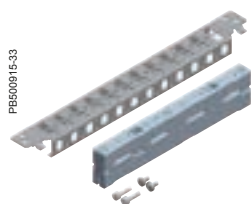
Characteristics			Side busbar chamber	Side panels for the side busbar chamber
			Protects and supports the sets of vertical bars. Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment. It can be installed on either of the two sides of the enclosure.	Set of 2 side panels fixed to the outside. Captive screws.
Material			Steel	Steel
Finish			Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour			RAL 7035 grey	RAL 7035 grey
Ingress protection rating			IP55 according to IEC 60529	-
Supply			<ul style="list-style-type: none"> <li>■ One structure of the busbar chamber</li> <li>■ One roof</li> <li>■ One rear panel</li> <li>■ One door with handle (5-mm DB lock)</li> </ul>	Two side panels with external fixing and fixing elements
Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)	References	
1800	400	400	NSYSF18440	NSY2SP184
		500	NSYSF18450	NSY2SP185
		600	NSYSF18460	NSY2SP186
2000	300	500	NSYSF20350	NSY2SP205
		600	NSYSF20360	NSY2SP206
		800	NSYSF20380	NSY2SP208
	400	400	NSYSF20440	NSY2SP204
		500	NSYSF20450	NSY2SP205
		600	NSYSF20460	NSY2SP206
2200	400	800	NSYSF20480	NSY2SP208
		600	NSYSF22460	NSY2SP226



Example installation of busbars in their chambers.

# Accessories for low voltage switchboards

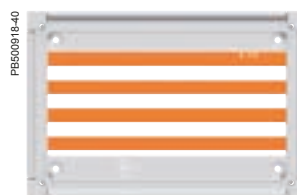
## Copper bar support up to 630 A



Characteristics	630 A bar support	630 A busbar end cover												
	<ul style="list-style-type: none"> <li>■ <b>Spacial SF</b>: support prepared for coupling directly to the structure of the enclosure.</li> <li>■ <b>Spacial SFX</b>: a universal cross rail is needed, in some cases, to replace the 400mm quick-fixing cross rail.</li> <li>■ <b>Spacial SM</b>: installation by means of a vertical adaptation profile and 40 mm universal cross rails (1 row).</li> <li>■ Maximum nominal rating 630 A.</li> <li>■ Determine according to the enclosed table the cross-section of the bars and the distance between supports, according to the nominal and short-circuit current respectively.</li> </ul>	Busbar end protection.												
Material	-	-												
Fixing	-	Direct installation on the actual bar support (insulator)												
Supply	One 630 A bar support, one 40 mm quick-fixing cross rail and fixing elements	Two 630 A bar support plates and fixing elements												
	<table border="1"> <thead> <tr> <th>Width / Depth (mm)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>NSYBS400</td> </tr> <tr> <td>500</td> <td>NSYBS500</td> </tr> <tr> <td>600</td> <td>NSYBS600</td> </tr> <tr> <td>800</td> <td>NSYBS800</td> </tr> </tbody> </table>	Width / Depth (mm)	References	400	NSYBS400	500	NSYBS500	600	NSYBS600	800	NSYBS800	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYBSC630</td> </tr> </tbody> </table>	Reference	NSYBSC630
Width / Depth (mm)	References													
400	NSYBS400													
500	NSYBS500													
600	NSYBS600													
800	NSYBS800													
Reference														
NSYBSC630														



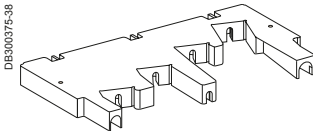
Table



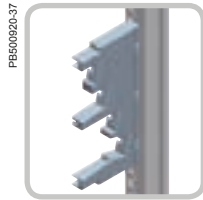
Nominal rating IP55 NR (A)	No. of bars per phase	Bar cross-section		Maximum distance between bar supports according to the short-circuit current (mm)							Neutral (mm)	Earth (mm)
		(mm)	(mm <sup>2</sup> )	I <sub>cw</sub> kA								
				12	23	30	39	52	66	69		
200	1	12 x 5	60	525	525	525	400	250	-	-	-	-
250	1	15 x 5	75	575	575	575	450	325	-	-	-	-
320	1	20 x 5	100	600	600	600	475	350	150	-	12 x 5-10	-
390	1	25 x 5	125	600	600	600	475	350	150	-	12 x 5-10	6 x 3
440	1	30 x 5	150	650	650	650	650	525	400	350	20 x 5-10	10 x 3
500	1	20 x 10	200	675	675	675	525	350	150	-	25 x 5-10	10 x 6
600	1	30 x 10	300	675	675	675	600	475	325	275	30 x 5-10	10 x 6

# Accessories for low voltage switchboards

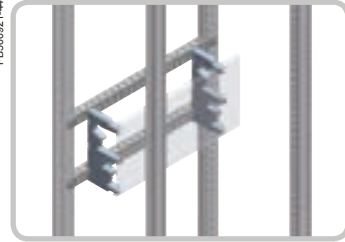
## Copper bar support up to 630 A



DB300375-38



PB50020-37



PB500921-44

### 630 A multi-stage bar support

- Support for fixing bars with cross-sections: 15 x 5, 20 x 5, 32 x 5, 32 x 8.
- The orientation of the copper bars makes tightening easier and allows better circulation of the cables.
- It can be 3-pole or 4-pole, with gauges from 160 to 630 A.
- Electrical characteristics:
  - Rated peak withstand current I<sub>pk</sub> (kA):
    - 30 kA for 160 A busbar,
    - 40 kA for 250 A busbar,
    - 55 kA for 400 A and 630 A busbar.
  - Rated insulation voltage U<sub>i</sub> = 750 V.

Insulating plastic

- Mounting on mounting plates (see page 212) or cross-rails (see page 223)
- M6 x 25 self-tapping screws are required for fixing on the cross-rails, not included

1 multi-stage bar support and fixing elements

#### Reference

04192

### Screen for 630 A multi-stage busbar

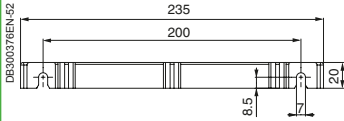
- Protects against direct contact from the front in the connections of the busbar.
- Length: 1500 mm.

Direct mounting on the actual support

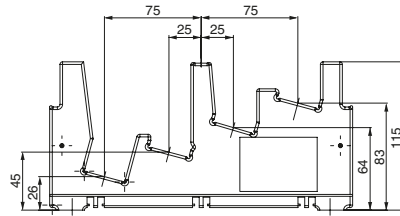
1 screen for multi-stage busbar and fixing elements

#### Reference

04197



DB300376EN-42



### Table

The following table shows:

- The cross-section of the bars that will be used according to the current-carrying capacity in the busbar.
- The distance between the bar supports that will be installed according to the rated short-time withstand current: I<sub>cw</sub>.

Rating (A)	Bar cross-section (mm)	Centre-to-centre distance of the supports (mm)				
		I <sub>cw</sub> (kA rms/1 s)				
		10	13	15	20	25
160	15 x 5					
250	20 x 5					
400	32 x 5		450			
630	32 x 8				300	300 <sup>(1)</sup>

(1) I<sub>cw</sub> (kA rms/0.6 s).

# Accessories for low voltage switchboards

## Vertical bar support

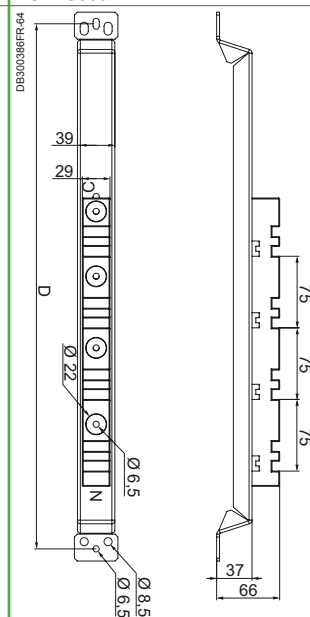
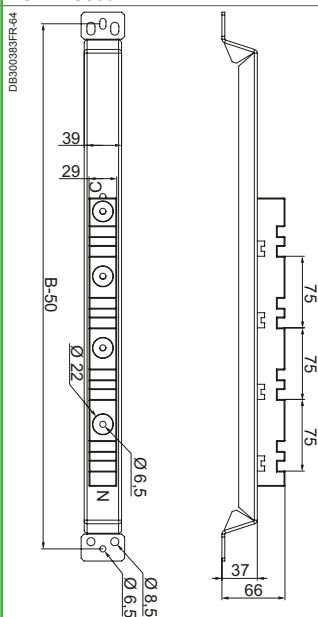


PE500927-60

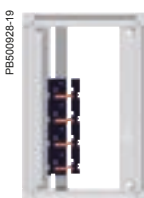


PE500929-66

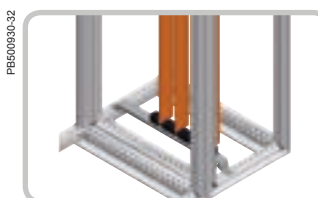
Characteristics	Vertical bar support	Setting support
	<ul style="list-style-type: none"> <li>Support prepared for fixing bars in vertical position, mounted directly on the structure of the enclosure. Adjustable height with a pitch of 25 mm.</li> <li>For a nominal rating <math>I_n \geq 3000</math> A and <math>\leq 4000</math> A you must add one spacer ref. <b>04646</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Bottom support for bars in vertical position.</li> <li>It is fixed to the bottom frame of the enclosure.</li> <li>It is required for supporting the bars.</li> <li>It is not considered a bar support when calculating the number of supports.</li> </ul>
Supply	2 insulating bar supports, 1 metal vertical support and fixing elements	1 insulating bar support, 1 metal vertical support and fixing elements
Width / Depth (B) (mm)	References	
400	<b>NSYBVS400</b>	<b>NSYAS400</b>
500	<b>NSYBVS500</b>	<b>NSYAS500</b>
600	<b>NSYBVS600</b>	<b>NSYAS600</b>
800	<b>NSYBVS800</b>	<b>NSYAS800</b>



PE50073-39



PE500828-19



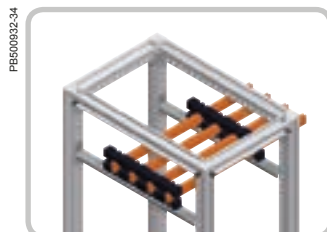
PE500830-32

# Accessories for low voltage switchboards

## Horizontal bar support



Characteristics	Horizontal bar support	Bar support arm										
	<ul style="list-style-type: none"> <li>■ Support prepared for fixing bars in horizontal position.</li> <li>■ Direct mounting to the structure of the enclosure, on the vertical uprights, at any height, adjustable with a pitch of 25 mm.</li> <li>■ For a nominal rating <math>I_n \geq 3000</math> A and <math>\leq 4000</math> A you must add one spacer ref. <b>04646</b>.</li> </ul>	<ul style="list-style-type: none"> <li>■ Support without fixing to the enclosure, required to guarantee the distance between the bars.</li> <li>■ It is used on bars in both vertical and horizontal position.</li> <li>■ For a nominal rating <math>I_n \geq 3000</math> A and <math>\leq 4000</math> A you must add one spacer ref. <b>04646</b>.</li> </ul>										
Supply	2 insulating bar supports, 1 metal horizontal support and fixing elements	2 insulating bar supports and fixing elements										
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="background-color: #cccccc;">Width / Depth (B) (mm)</th> <th style="background-color: #cccccc;">References</th> </tr> </thead> <tbody> <tr> <td>500</td> <td>NSYBHS500</td> </tr> <tr> <td>600</td> <td>NSYBHS600</td> </tr> <tr> <td>800</td> <td>NSYBHS800</td> </tr> </tbody> </table>	Width / Depth (B) (mm)	References	500	NSYBHS500	600	NSYBHS600	800	NSYBHS800	<table border="1" style="width: 100%;"> <thead> <tr> <th style="background-color: #cccccc;">Reference</th> </tr> </thead> <tbody> <tr> <td>NSYBSA</td> </tr> </tbody> </table>	Reference	NSYBSA
Width / Depth (B) (mm)	References											
500	NSYBHS500											
600	NSYBHS600											
800	NSYBHS800											
Reference												
NSYBSA												



# Accessories for low voltage switchboards

## Masterpact support

### Overview of the offer Masterpact NT and NW



#### Circuit breakers

- Ratings:
  - Masterpact NT: 630 to 1600 A
  - Masterpact NW: 800 to 4000 A.
- Circuit breakers type N1, H1, H2, H3, L1.
- Switch-disconnectors type NA, HA, HF, HH.
- 3 or 4 poles.
- Fixed or drawout versions.
- Option with neutral on the right.
- Protection derating.



#### Micrologic control units

##### Ammeter A and Energy E

- 2.0 basic protection
- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection (1).

##### Power meter P

- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection

##### Harmonic meter H

- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection
- External sensor for earth-fault protection.
- Rectangular sensor for earth-leakage protection.
- Setting options (long-time rating plug):
  - low setting 0.4 to 0.8 x I<sub>r</sub>
  - high setting 0.8 to 1 x I<sub>r</sub>
  - without long-time protection.
- External AD power-supply module.
- Battery module.

(1) Only for ammeter A.



#### Power meter functions

Masterpact equipped with Micrologic 2 / 5 / 6 / 7 trip units offer type A (ammeter) or E (energy) metering functions as well as communication. Using Micrologic sensors and intelligence, Masterpact provides access to measurements of all the main electrical parameters on the built-in screen, on a dedicated FDM display unit or via the communication system.



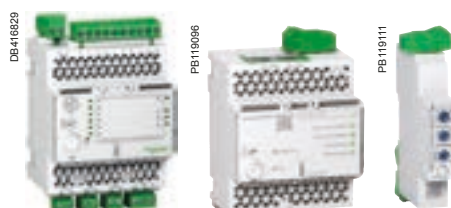
#### Operating assistance functions

Integration of measurement functions provides operators with operating assistance functions including alarms tripped by user-selected measurement values, time-stamped event tables and histories, and maintenance indicators.



#### Communication

- COM option in Masterpact.
- Masterpact in a communication network.
- IFM: Modbus interface module.
- IFE: Ethernet interface module.
- I/O application module.
- Electrical Asset Manager.



# Accessories for low voltage switchboards

## Masterpact support

### Overview of the offer Masterpact MTZ

#### Circuit breakers

##### MTZ1

From 630 to 1600 A

##### MTZ2

From 800 to 4000 A



#### Micrologic™ X control units

2.0X | 5.0X | 6.0X | 7.0X |  
Only four references



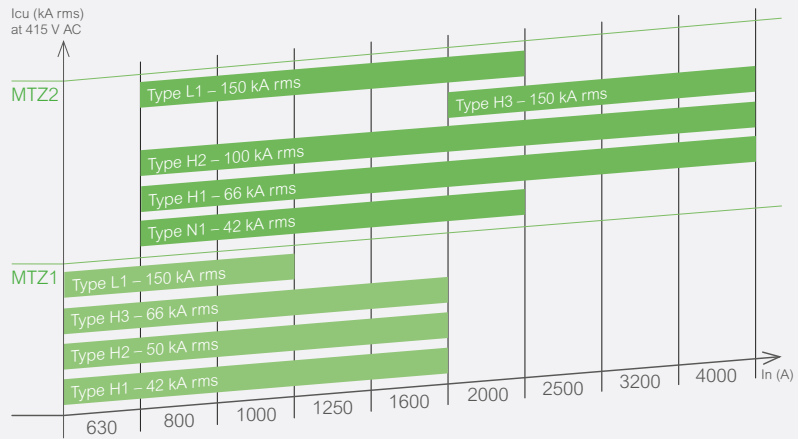
+ Digital Modules

Protection

Measurement

Diagnostics and Maintenance

#### Five performance levels N1, H1, H2, H3, L1



Masterpact MTZ1

Find all functions and technical characteristics in:  
Masterpact MTZ catalogue  
LVPED216026EN



# Accessories for low voltage switchboards

## Masterpact support



### Introduction

Installation of a Masterpact in a SF switchboard requires:

- Lateral cross-rails (NSYSQCR\*\*, NSYSUCR\*\*) (See table below)
- 1 specific transversal Masterpact support (NSYFXMN\*\*) fixed to the lateral cross-rails
- Bar supports to reduce bar movements due to constraints

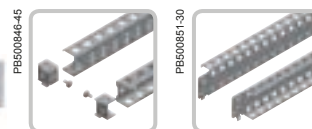
### Masterpact supports New

Dedicated offer to secure and facilitate Masterpact positioning in the switchboard

- Less distortion
- Reduced installation time
- Possibility to use bar CAD library

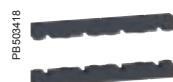


NSYFXMNT80W



Characteristics	Masterpact supports		Associated cross-rails		
	W600	W800	Universal cross-rails	Quick-fixing cross-rails	
	<ul style="list-style-type: none"> <li>■ Cut outs already defined</li> <li>■ Available in the Schneider CAD library</li> </ul>		-		
Material	Galvanised-steel		Zinc-coated steel		
Supply	1 support delivered with fixing elements (self tapping screws M6/T30 + type 9/M6 cage nuts)		2 cross-rails and fixing elements (see cross-rail section page 221 for more information)		
Mounting instructions	Screwdriver: T30 Tightening torque: 4.5 Nm/39.82 lb-in		-		
<b>Masterpact association</b>					
<b>References</b>					
Masterpact MTZ1 and NT	Fixed	NSYFXMNT60F	NSYFXMNT80F	NSYSUCR65**	NSYSQCR65**
	Withdrawable	NSYFXMNWT60FW	NSYFXMNT80W	NSYSUCR65**	NSYSQCR65**
Masterpact MTZ2 and NW	Fixed	NSYFXMNWT60FW	NSYFXMNW80F	NSYSUCR90**	NSYSQCR90**
	Withdrawable	NSYFXMNWT60FW	NSYFXMNW80W	NSYSUCR90**	NSYSQCR90**

### Bar supports



Characteristics	Supports for Masterpact MTZ1 and NT		Supports for Masterpact MTZ2 and NW	
	Fixed support	Free support	Fixed support	Free support
	Fixing by screw with hexagonal head.	Fixing by screw with hexagonal head.	Fixing by screw with hexagonal head	Fixing by screw with hexagonal head.
Material	<ul style="list-style-type: none"> <li>■ Metal support: zinc-coated steel</li> <li>■ Isolating supports: thermosetting coating</li> </ul>	<ul style="list-style-type: none"> <li>■ Isolating supports: thermosetting coating</li> </ul>	<ul style="list-style-type: none"> <li>■ Metal support: zinc-coated steel</li> <li>■ Isolating supports: thermosetting coating</li> </ul>	<ul style="list-style-type: none"> <li>■ Isolating supports: thermosetting coating</li> </ul>
Supply	2 insulating bar supports, 1 metal horizontal support and fixing element	2 insulating bar supports and fixing elements	2 insulating bar supports, 1 metal horizontal support and fixing element	2 insulating bar supports and fixing elements
	<b>Width (mm)</b>	<b>References</b>	<b>Width (mm)</b>	<b>References</b>
	500	NSYBHNT500	600	NSYBHNW600
	600	NSYBHNT600	800	NSYBHNW800
	800	NSYBHNT800		04678

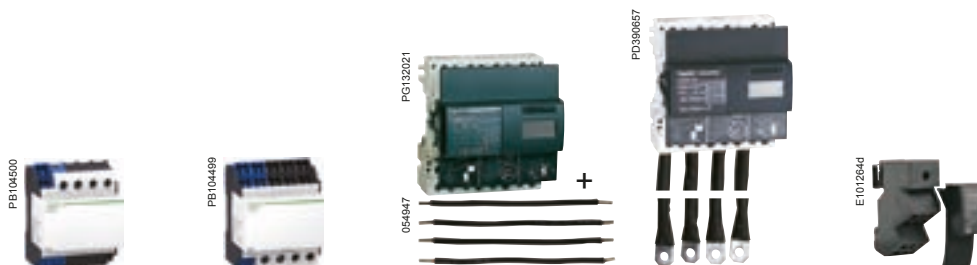


# Accessories for low voltage switchboards

## Distribution blocks

### Lineryg DX

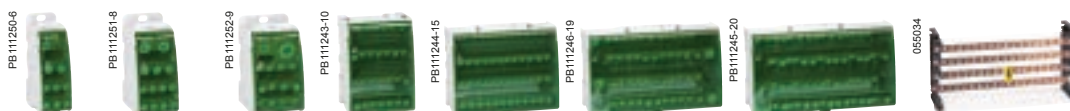
#### Fast connection distribution blocks



Characteristics		Lineryg DX				
Rating		63 A	125 A	160 A	160 A	160 A
		<ul style="list-style-type: none"> <li>Incoming through the top.</li> <li>Clip-on to rail.</li> </ul>	<ul style="list-style-type: none"> <li>Incoming through the bottom.</li> <li>Clip-on to rail.</li> </ul>	<ul style="list-style-type: none"> <li>Set of 4 35 mm<sup>2</sup> flexible connections, length 210 mm to be ordered separately (cat. no. 04047).</li> <li>Clip-on to rail.</li> </ul>	<ul style="list-style-type: none"> <li>Set of 4 prefabricated flexible connections supplied, for connection with an INS100/160 or NSA160 switch, installed on the right or left.</li> <li>Clip-on to rail</li> </ul>	Clip-on to rail.
Number of poles		4P	4P	4P		1P
Total connection capacity (dia. for flexible cables)	4 mm <sup>2</sup>	-	7			-
	6 mm <sup>2</sup>	12 per phase + 12 neutral	3			6
	10 mm <sup>2</sup>	-	2			-
	16 mm <sup>2</sup>	-	1 tunnel terminal			6
	25 mm <sup>2</sup>	4 tunnel terminals per phase + 1 neutral	-			-
	35 mm <sup>2</sup>	-	1 tunnel terminal			-
Size	in 9 mm modules	8	12			4.5
	in 18 mm modules	4	6			2.5
References		04040	04041	04045 + 04047	04046	04031

### Lineryg DS and Lineryg BS

#### Screw distribution blocks



Characteristics		Lineryg DS							Lineryg BS		
Rating		125 A	160 A	250 A	100 A	125 A	160 A	160 A	250 A	400 A	
		Clip-on to rail.			Clip-on to rail.				<ul style="list-style-type: none"> <li>To be screwed on back.</li> <li>13 M6 tapped holes + 4 plain holes of dia. 12.2 mm.</li> </ul>		
Number of poles		1P			4P				4P		
Total connection capacity		10	13	14	4 x 7	4 x 12	4 x 15	4 x 12	4 + 13 (dia. for flexible cables: 50 mm <sup>2</sup> )		
	Size										
Size	in 9 mm modules	3	4	5	8	14	20	18	-	-	-
	in 18 mm modules	-	-	-	-	-	-	-	-	-	-
References		LGY112510	LGY116013	LGY125014	LGY410028	LGY412548	LGY412560	LGY416048	04052	04053	04054
Neutral terminal strip (optional)		-	-	-	LGYN1007	LGYN12512	LGYN12515	LGYN12512	-	-	-

# Accessories for low voltage switchboards

## Device feeders

### Lineryg FM

#### Quick device feeders



Characteristics		Lineryg FM: for cable links							
Rating		63 A	80 A	160 A	200 A				
Length	in 9 mm modules	24	48	24	48	72			
	in 18 mm modules	12	24	12	24	36			
Supply at incoming terminals		Enclosed terminals for cables up to 25 mm <sup>2</sup>	Enclosed terminals for flexible cables 6 to 25 mm <sup>2</sup> or rigid cables 10 to 35 mm <sup>2</sup>	Direct onto the row by cable 70 mm <sup>2</sup> with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection					
Downstream connection capacity	Max. 4 mm <sup>2</sup> Phase	6	-	-	-				
	Neutral	4	-	-	-				
	Max. 6 mm <sup>2</sup> Phase	6	18	-	-				
	Neutral	4	18	-	-				
Accessories included	Pre-stripped copper connections	10 of 4 mm <sup>2</sup> + 6 of 6 mm <sup>2</sup> (L=100 mm)	12 blue + 12 black	12 of 10 mm <sup>2</sup> (L=100 mm)	24 of 10 mm <sup>2</sup>			36 of 10 mm <sup>2</sup>	
	Protective cover	-	-	For pads (IPxxB)	-			-	
	Screws and nuts	-	-	For pads	-			-	
<b>References</b>									
2P	-	-	-	-	04012 <sup>(1)</sup>	-	-	-	
3P	-	-	-	-	-	04013 <sup>(1)</sup>	-	-	
4P	04008 <sup>(1)</sup>	04000	04018 <sup>(1)</sup>	-	-	04014 <sup>(1)</sup>	04026 <sup>(1)</sup>	-	

(1) Cable to be used without ferrules.

#### Connection of Lineryg FM with upstream device

	DD383472-LIO	DD385247-LIO	DD385246-LIO	DD38535-LIO	DD381658-SE
Upstream device	Lineryg BW busbar	Multi-stage Lineryg BS busbar	Rear Lineryg BS busbar	Device 160 A	Busbar
Connection hardware	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 160 A connection for Lineryg FM 1/2 row	200 A connection (20 x 3 mm) for Lineryg FM
References	04021 + 04150 insulating covers	04024	04029	04030	04743

# Accessories for low voltage switchboards

## Device feeders

### Lineryg FC

#### Feeders for Compact NSX et INS



PE502508-32\_J

Characteristics	Compact NSX100/250 & INS/INV250 - All controls, fixed and withdrawable	
	Lineryg FC without prefabricated connections <sup>(1)</sup>	
Number of poles	3P	4P
Connection to	Lineryg BS, Lineryg LGY or Lineryg LGYE busbars	
Number of devices	4	3
Composition	Self-adhesive labels to mark the phases for connections to the busbars.	
<b>References</b>	<b>04407</b> <sup>(2)</sup>	<b>04408</b> <sup>(2)</sup>

(1) The connection of a Lineryg FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (04922).

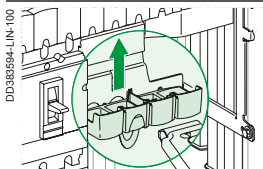
In this case, use the form 2 restoration kit (04924).

(2) For the connection, use insulated flexible bars, 32 x 8 mm (04753). Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.

### Accessories



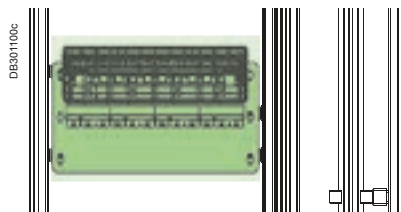
PE502509-18\_J

Tooth caps	
	The caps block off the reserve terminals on a Lineryg FC distribution block. Made of an insulating material, they simply clip on from the front.
<b>Reference</b>	<b>04809</b>



PE503419

Caractéristiques	Mounting plate for Lineryg FC	
	Fixing with NSYMPFIX kit	
Material	Galvanised steel	
Supply	1 mounting plate	
	<b>Width (mm)</b>	<b>References</b>
	600	NSYMPGYFC600
	800	NSYMPGYFC800



Front view



Side view

# Accessories for low voltage switchboards

## Distribution blocks



Characteristics	Sigma safety terminals*	Bimetal terminals	Plate/cable terminals																																																																																																																											
	<p>Safety terminals made from self-extinguishing Polyamide-6, with matt black base, MS-58 brass terminal (DIN 17660), tempered, zinc-plated and dichromated steel ring, and cover made from orange-coloured self-extinguishing polypropylene.</p> <ul style="list-style-type: none"> <li>■ Anti-shearing: the connection is made by means of a tightening mechanism, which distributes the pressure across the entire contact surface, avoiding friction and occasional stress that can damage the conductors.</li> <li>■ Unloosenable: the ring that surrounds the brass body guarantees that the pressure exerted by the actual conductors cannot open the terminal and loosen the connection.</li> <li>■ Full insulation: all the SIGMA "S" terminals are supplied with a terminal-covering cap, avoiding any accidental contact with live parts. All the gauges can be coupled together, forming strips of any length. Operating voltage: 500 V.</li> </ul>	<p>Terminals specially designed for the junction of cables on plates, their main application is in busbar connections. The bimetal terminals are made from a copper alloy, hot-stamped and tin plated, suitable for connecting a copper or aluminium conductor indistinctly (bimetal).</p>	<p>Entry by plate and junction by cable, plate or terminal.</p>																																																																																																																											
Supply	20 units (except for ref. NSYS95100: 10 units)	4 bimetal terminals	1 junction terminal																																																																																																																											
	<table border="1"> <thead> <tr> <th>Section (mm<sup>2</sup>)</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>1 x 4</td> <td>30</td> <td>20</td> <td>13</td> <td>21</td> <td>4</td> <td>NSYS04</td> </tr> <tr> <td>1 x 6</td> <td>33</td> <td>25</td> <td>16</td> <td>24</td> <td>7</td> <td>NSYS06</td> </tr> <tr> <td>1 x 10</td> <td>38</td> <td>28</td> <td>16</td> <td>28</td> <td>6</td> <td>NSYS10</td> </tr> <tr> <td>1 x 16</td> <td>42</td> <td>32</td> <td>19</td> <td>32</td> <td>9</td> <td>NSYS16</td> </tr> <tr> <td>1 x 35</td> <td>46</td> <td>38</td> <td>23</td> <td>34</td> <td>11</td> <td>NSYS2535</td> </tr> <tr> <td>1 x 50</td> <td>52</td> <td>45</td> <td>27</td> <td>40</td> <td>15</td> <td>NSYS50</td> </tr> <tr> <td>1 x 70</td> <td>55</td> <td>50</td> <td>30</td> <td>40</td> <td>15</td> <td>NSYS70</td> </tr> <tr> <td>1 x 100</td> <td>58</td> <td>54</td> <td>33</td> <td>40</td> <td>20</td> <td>NSYS95100</td> </tr> </tbody> </table> 	Section (mm <sup>2</sup> )	A	B	C	D	E	References	1 x 4	30	20	13	21	4	NSYS04	1 x 6	33	25	16	24	7	NSYS06	1 x 10	38	28	16	28	6	NSYS10	1 x 16	42	32	19	32	9	NSYS16	1 x 35	46	38	23	34	11	NSYS2535	1 x 50	52	45	27	40	15	NSYS50	1 x 70	55	50	30	40	15	NSYS70	1 x 100	58	54	33	40	20	NSYS95100	<table border="1"> <thead> <tr> <th>Main section (mm<sup>2</sup>)</th> <th>Junction section (mm<sup>2</sup>)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>6-50</td> <td>-</td> <td>NSYBBH29</td> </tr> <tr> <td>6-50</td> <td>-</td> <td>NSYBBH29C</td> </tr> <tr> <td>10-95</td> <td>-</td> <td>NSYBBH30</td> </tr> <tr> <td>16-150</td> <td>-</td> <td>NSYBBH31</td> </tr> <tr> <td>50-240</td> <td>-</td> <td>NSYBBH32</td> </tr> <tr> <td>6-50</td> <td>6-50</td> <td>NSYBBH29D</td> </tr> <tr> <td>10-95</td> <td>10-95</td> <td>NSYBBH30D</td> </tr> <tr> <td>25-150</td> <td>16-150</td> <td>NSYBBH31D</td> </tr> <tr> <td>95-240</td> <td>5-240</td> <td>NSYBBH32D</td> </tr> <tr> <td>6-50</td> <td>-</td> <td>NSYBBH29P</td> </tr> <tr> <td>6-50</td> <td>6-50</td> <td>NSYBBH29DPC</td> </tr> </tbody> </table>	Main section (mm <sup>2</sup> )	Junction section (mm <sup>2</sup> )	References	6-50	-	NSYBBH29	6-50	-	NSYBBH29C	10-95	-	NSYBBH30	16-150	-	NSYBBH31	50-240	-	NSYBBH32	6-50	6-50	NSYBBH29D	10-95	10-95	NSYBBH30D	25-150	16-150	NSYBBH31D	95-240	5-240	NSYBBH32D	6-50	-	NSYBBH29P	6-50	6-50	NSYBBH29DPC	<table border="1"> <thead> <tr> <th>Junction cable section (mm<sup>2</sup>)</th> <th>Plate thickness (mm)</th> <th>Fig.</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>1.5 to 16</td> <td>5</td> <td>2</td> <td>NSYBPCH516</td> </tr> <tr> <td>1.5 to 50</td> <td>5</td> <td>2</td> <td>NSYBPCH550</td> </tr> <tr> <td>16 to 120</td> <td>5</td> <td>2</td> <td>NSYBPCH5120</td> </tr> <tr> <td>1.5 to 16</td> <td>10</td> <td>1</td> <td>NSYBPCH1016</td> </tr> <tr> <td>1.5 to 50</td> <td>10</td> <td>1</td> <td>NSYBPCH1050</td> </tr> </tbody> </table>	Junction cable section (mm <sup>2</sup> )	Plate thickness (mm)	Fig.	References	1.5 to 16	5	2	NSYBPCH516	1.5 to 50	5	2	NSYBPCH550	16 to 120	5	2	NSYBPCH5120	1.5 to 16	10	1	NSYBPCH1016	1.5 to 50	10	1	NSYBPCH1050
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1.5 to 50	10	1	NSYBPCH1050																																																																																																																											

\* Each terminal accepts up to 2 conductors with the specified section.

# Accessories for low voltage switchboards

## Distribution blocks

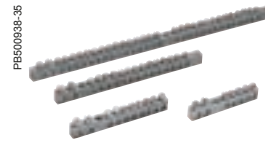
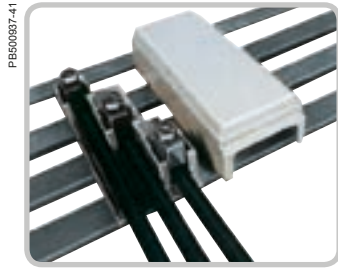


Fig. 3



Fig. 4



Fig. 4

Characteristics	Three-pole junction terminals				Earthing strips		
	Entry by plate and junction by cable (for busbars).				For the junction of neutral and earth cables. ■ Models <b>NSYRBL●●</b> (Fig. 3) for installation in boxes with insulating rear or by means of insulators, not supplied. ■ Models <b>NSYRBLZ●●</b> (Fig. 4) with insulating plinth for fitting under pressure on 12 x 2-mm rail.		
Supply	1 junction terminal				10 earthing strips		
	Entry plate width (mm)	Entry plate thickness (mm)	Junction cable section (mm <sup>2</sup> )	Reference	Number of terminals x section mm <sup>2</sup>	Fig.	References
	12/15/20/25/30	5 to 10	35 to 120	<b>NSYBTE630TBT</b>	2 x 16 mm <sup>2</sup> + 5 x 6 mm <sup>2</sup>	3	<b>NSYRBL21656M</b>
					2 x 16 mm <sup>2</sup> + 8 x 6 mm <sup>2</sup>	3	<b>NSYRBL21686M</b>
					2 x 16 mm <sup>2</sup> + 14 x 6 mm <sup>2</sup>	3	<b>NSYRBL216146M</b>
					2 x 16 mm <sup>2</sup> + 29 x 6 mm <sup>2</sup>	3	<b>NSYRBL216296M</b>
					2 x 16 mm <sup>2</sup> + 5 x 6 mm <sup>2</sup>	4	<b>NSYRBLZ21656</b>
					2 x 16 mm <sup>2</sup> + 8 x 6 mm <sup>2</sup>	4	<b>NSYRBLZ21686</b>
					2 x 16 mm <sup>2</sup> + 14 x 6 mm <sup>2</sup>	4	<b>NSYRBLZ216146</b>
					2 x 16 mm <sup>2</sup> + 29 x 6 mm <sup>2</sup>	4	<b>NSYRBLZ216296</b>

# Accessories for low voltage switchboards

## Power busbars

### Linery LGYE

#### Linery LGYE - Horizontal profiles up to 4000 A

Installation in Spacial SF		Up to 1600 A					Up to 4000 A			
Linery profiles, 2000 mm length										
Permissible current for an ambient temperature of 35 °C around the switchboard	IP > 31	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Number of profiles per phase		530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Height available (mm)		150					150		200	
References		04560	04561	04562	04563	04564	04565	04566	04567	04568

#### Busbar supports

		Fixed support NSYBHS**	Free support NSYBSA
Characteristics		2 supports shall mandatorily be fastened to the structure of the 800 mm wide Spacial SF cubicle. If the width is greater, add a NSYSUCR40** cabinet cross rail to add a third fixed support. 1 support shall mandatorily be fastened to the structure of the cubicles of width 300 mm and 400 mm. If more supports are required, use free supports.	
Number of supports depending on I <sub>ow</sub> (kA rms/1 s)	≤ 15	2 x NSYBHS** *	
	≤ 25	2 x NSYBHS** *	
	≤ 30	2 x NSYBHS** *	
	≤ 40	2 x NSYBHS** *	
	≤ 50	2 x NSYBHS** *	
	≤ 60	2+1 **	
	≤ 65	2+1 **	
	≤ 75	2+1 **	
	≤ 85	2+1 **	
	≤ 100	2+4 ***	
References	Fixed support	NSYBHS**	
	Free support	NSYBSA	
		NSYBHS** + 04646	
		NSYBSA + 04646	

#### Joints

	Up to 1600 A					Up to 4000 A			
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
References	04620					04621		04623	
	3 x 04620 (3P) 4 x 04620 (4P)					3 x 04621 (3P) 4 x 04621 (4P)		3 x 04623 (3P) 4 x 04623 (4P)	
Note	If insulation clearance < 20 mm add an insulating shield between the busbar and the metallic part of the cabinet.								

\* If spacing between supports > 800 mm add 1 NSYBSA free support.

\*\* If spacing between supports > 300 mm add 1 NSYBSA free support.

\*\*\* If spacing between supports > 135 mm add 1 NSYBSA free support.

# Accessories for low voltage switchboards

## Power busbars

### Lineryg BS

Lineryg BS - Horizontal busbars up to 4000 A										
Installation in Spacial SF	Up to 1600 A				Up to 4000 A					
Copper without holes, 2000 mm length										
Permissible current for an ambient temp. IP > 31 of 35°C around the switchboard	750 A	900 A	1250 A	1600 A	1600 A	1800 A	2000 A	2500 A	2900 A	3340 A
Size of bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Number of bars per phase	1	1	2	2	1	2	2	2	2	2
Height available (mm)	150									200
References	04536	04538	04536	04538	04548	04545	04546	04548	04550	04552

#### Busbar supports

Characteristics		2 supports shall mandatorily be fastened to the structure of the 800 mm wide Spacial SF cubicle. If the width is greater, add a NSYSUCR40** cabinet cross rail to add a third fixed support. 1 support shall mandatorily be fastened to the structure of the cubicles of width 300 mm and 400 mm. If more supports are required, use free supports.								
Number of supports depending on I <sub>cw</sub> (kA rms/1 s)	≤ 15	2 x NSYBHS** *								
	≤ 25	2+1 **	2 x NSYBHS** *							
	≤ 30	2+1 **	2 x NSYBHS** *							
	≤ 40	2+1 **	2 x NSYBHS** *							
	≤ 50	-	2+1 **	2 x NSYBHS** *				2 x NSYBHS** *		
	≤ 60	-	2+1 **			2+1 **				
	≤ 65	-	2+1 **			2+1 **				
	≤ 75	-	2+4 ***		2+1 **				2+1 **	
	≤ 85	-	-				2+1 **			
References	Fixed support	NSYBHS**								NSYBHS** + 04646
	Free support	NSYBSA								NSYBSA + 04646

\* If spacing between supports > 800 mm add 1 NSYBSA free support.

\*\* If spacing between supports > 300 mm add 1 NSYBSA free support.

\*\*\* If spacing between supports > 135 mm add 1 NSYBSA free support.











Joints										
Installation dans Spacial SF	Up to 1600 A				Up to 4000 A					
	1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase				
Size of bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Sliding joints with torque nut										
References	04640	04641	04640	04641	04641	04640	04640	04641	04641	04643

# Accessories for low voltage switchboards

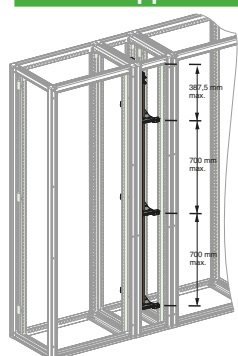
## Power busbars

### Linery LGY

#### Linery LGY - Lateral profiles up to 1600 A

		Up to 1600 A				
Installation in Spacial SF		L 300				
						
						
Permissible current for an ambient temp. of 35 °C around the switchboard IP > 31		630 A 590 A	800 A 760 A	1000 A 950 A	1250 A 1170 A	1600 A 1480 A
Number of profiles per phase		1				
References		04502	04503	04504	04505	04506

#### Busbar supports



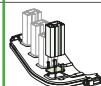
#### Characteristics

Number depending on Icw (kA rms/1 s)

≤ 25  
≤ 30  
≤ 40  
≤ 50  
≤ 60  
≤ 65  
≤ 75  
≤ 85



Fixed support 04651



An end stop must be fitted on the bottom support: 01109 (sold in lots of 12)

≤ 25	3				
≤ 30	-	3			
≤ 40	-		3		
≤ 50	-			4	
≤ 60	-			5	
≤ 65	-				5
≤ 75	-				7
≤ 85	-				8

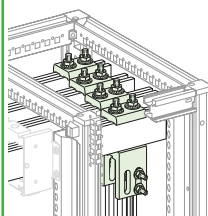
#### References

04651 + upright adapters NSYSFPA + NSYSUCR40\*\*

#### Note

Only for depth cubicle ≥ 500 mm

#### Connections to the Linery BS horizontal busbar

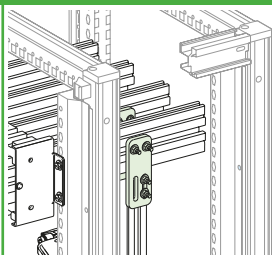


#### Characteristics

Supplied with mounting hardware.  
Reference include 1 connection only. Order 1 connection per phase.

References according to horizontal busbar size	5 mm thick	04634	04635
	10 mm thick	04636	
	Width ≤ 80 mm	04636 + 04642	
		04638 + 04642	
Width > 80 mm			

#### Connections to the Linery LGYE horizontal busbar



#### Characteristics

Supplied with mounting hardware.  
Reference include 1 connection only. Order 1 connection per phase.

References	04602 (vertical connection)
	04603 (vertical shifted connection)



# Accessories for low voltage switchboards

## Power busbars

### Linery LGYE

Linery LGYE - Lateral profiles up to 4000 A											
Installation in Spacial SF		Up to 4000 A									
Linery profile, 2000 mm length		L 300									
Permissible current for an ambient temperature of 35°C around the switchboard IP > 31		630 A 530 A	800 A 680 A	1000 A 850 A	1250 A 1050 A	1600 A 1480 A	2000 A 1650 A	2500 A 2100 A	3200 A 2800 A	4000 A 3350 A	
Number of profiles per phase		1									
Height available (mm)		150						150		200	
References		04560	04561	04562	04563	04564	04565	04566	04567	04568	

Busbar supports																									
	Fixed support <b>NSYBVS**</b> Free support <b>NSYBSA</b> Bottom support <b>NSYAS**</b>																								
Characteristics	3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).																								
Number depending on l <sub>cw</sub> (kA rms/1 s)	<table border="1"> <tr> <td>≤ 30</td> <td colspan="2">3</td> </tr> <tr> <td>≤ 40</td> <td>3+2 *</td> <td>3</td> </tr> <tr> <td>≤ 50</td> <td>3+2 *</td> <td>3</td> </tr> <tr> <td>≤ 60</td> <td>3+2 *</td> <td>3</td> </tr> <tr> <td>≤ 65</td> <td>3+2 *</td> <td></td> </tr> <tr> <td>≤ 75</td> <td>3+4 **</td> <td>3+2 *</td> </tr> <tr> <td>≤ 85</td> <td>3+4 **</td> <td></td> </tr> <tr> <td>≤ 100</td> <td></td> <td>3+6 ***</td> </tr> </table>	≤ 30	3		≤ 40	3+2 *	3	≤ 50	3+2 *	3	≤ 60	3+2 *	3	≤ 65	3+2 *		≤ 75	3+4 **	3+2 *	≤ 85	3+4 **		≤ 100		3+6 ***
≤ 30	3																								
≤ 40	3+2 *	3																							
≤ 50	3+2 *	3																							
≤ 60	3+2 *	3																							
≤ 65	3+2 *																								
≤ 75	3+4 **	3+2 *																							
≤ 85	3+4 **																								
≤ 100		3+6 ***																							
References	<table border="1"> <tr> <td>Fixed support</td> <td><b>NSYBVS**</b></td> <td><b>NSYBHS** + 04646</b></td> </tr> <tr> <td>Bottom support</td> <td><b>NSYAS**</b></td> <td><b>NSYAS** + 04646</b></td> </tr> <tr> <td>Free support</td> <td><b>NSYBSA</b></td> <td><b>NSYBSA + 04646</b></td> </tr> </table>	Fixed support	<b>NSYBVS**</b>	<b>NSYBHS** + 04646</b>	Bottom support	<b>NSYAS**</b>	<b>NSYAS** + 04646</b>	Free support	<b>NSYBSA</b>	<b>NSYBSA + 04646</b>															
Fixed support	<b>NSYBVS**</b>	<b>NSYBHS** + 04646</b>																							
Bottom support	<b>NSYAS**</b>	<b>NSYAS** + 04646</b>																							
Free support	<b>NSYBSA</b>	<b>NSYBSA + 04646</b>																							

\* If spacing between supports > 400 mm add 1 NSYBSA free support.  
 \*\* If spacing between supports > 250 mm add 1 NSYBSA free support.  
 \*\*\* If spacing between supports > 130 mm add 1 NSYBSA free support.

Wedging busbars in position			
	Wedge fitted on bottom support		
Characteristics	The bottom support <b>NSYAS** + 0465•</b> is used to place profiles and ensure they are in the correct position. It is not considered to be a busbar support.		
References	<table border="1"> <tr> <td>04658 (set of 12 wedges)</td> <td>04659 (set of 12 wedges)</td> </tr> </table>	04658 (set of 12 wedges)	04659 (set of 12 wedges)
04658 (set of 12 wedges)	04659 (set of 12 wedges)		

Connections to the Linery LGYE horizontal busbar					
	2000/2500 A				
	3200/4000 A				
Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.				
References	<table border="1"> <tr> <td>04604 (short connection)</td> <td>04607</td> </tr> <tr> <td>04605 (long connection)</td> <td></td> </tr> </table>	04604 (short connection)	04607	04605 (long connection)	
04604 (short connection)	04607				
04605 (long connection)					

# Accessories for low voltage switchboards

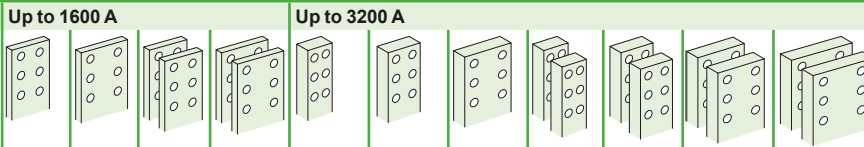
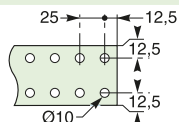
## Power busbars

### Linery BS

#### Linery BS - Lateral flat busbars up to 3200 A

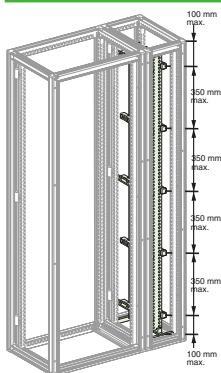
##### Installation in Spacial SF

Pre-slotted copper, 1675 mm length



Permissible current for an ambient temp. of IP > 31 35°C around the switchboard	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Number of profiles per phase	1		2		1			2			
<b>References</b>	<b>04516</b>	<b>04518</b>	<b>04516</b>	<b>04518</b>	<b>04525</b>	<b>04526</b>	<b>04528</b>	<b>04525</b>	<b>04526</b>	<b>04528</b>	<b>04550</b>

#### Busbar supports

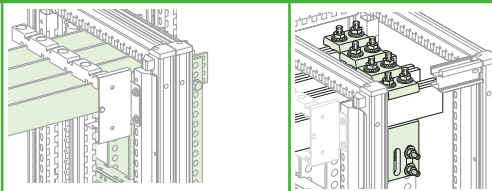


Characteristics	3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.										
Number of supports depending on I <sub>cw</sub> (kA rms/1 s)	≤ 15	3 *								3 *	
	≤ 25	3+2 *		3 *							
	≤ 30	3+2 *								3 *	
	≤ 40	3+4		3+2 *							
	≤ 50	3+4				3+2 *					
	≤ 60					3+4				3+2 *	
	≤ 65					3+4				3+2 *	
	≤ 75							3+6		3+4	
	≤ 85									3+4	

<b>References</b>	Fixed support	<b>NSYBVS**</b>
	Bottom support	<b>NSYAS**</b>
	Free support	<b>NSYBSA</b>

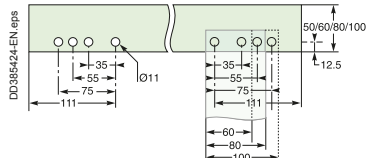
\* If spacing between supports > 350 mm add 1 NSYBSA free support.

#### Connections to the Linery BS horizontal busbar

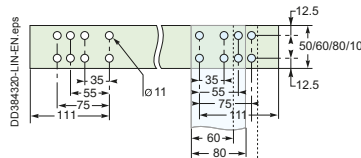


Characteristics	For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances. <sup>(3)</sup>				References <b>04636</b> , <b>04637</b> , <b>04638</b> are supplied individually: 1 connection per phase. Reference <b>04642</b> consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.						
<b>References depending on horizontal busbar size</b>	Width ≤ 80 mm	<b>04645</b>			<b>04636</b>			<b>04637</b>		<b>04645</b>	
	Width > 80 mm	<b>04645</b>			<b>04636 + 04642</b>			<b>04637 + 04642</b>		<b>04645</b>	

(1) Drill hole dimensions for 5 mm thick horizontal busbars.



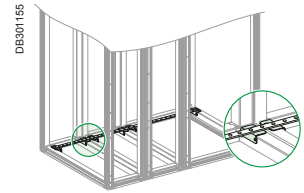
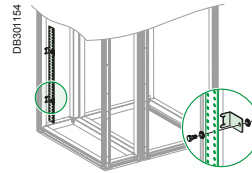
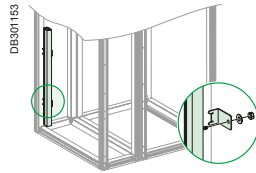
Drill hole dimensions for 10 mm thick horizontal busbars.



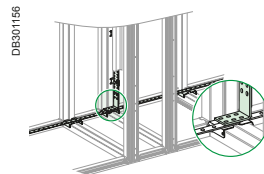
# Accessories for low voltage switchboards

## PE conductor

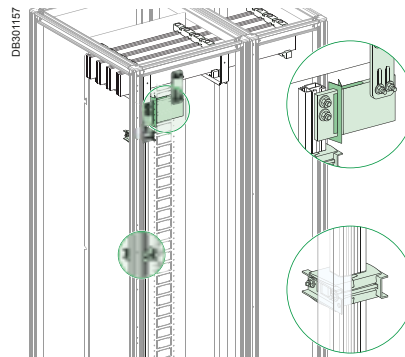
### Linergy TB



Characteristics	PE conductor						
	Vertical PE conductor with Linergy LGY profile (W = 1670 mm)			Vertical PE conductor with Linergy BS busbar (W = 1675 mm)		Horizontal PE conductor with Linergy BS busbar	
Rated short-time current (Isc)	≤ 65	> 65... ≤ 80	= 100	≤ 40	> 40	≤ 40	> 40
Permissible current (A)	630	800	1250	-	-	-	-
Bar size (mm)	-	-	-	25 x 5	50 x 5	25 x 5	50 x 5
Characteristics	-	-	-	Drilled flat bar Ø10.6 mm (one 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	-	-
References	04502	04503	04505	04512	04515	04512	04512



Connection between PE conductors		
	Connection plates for horizontal/vertical PE bars	Linergy connection hardware
Composition	2 copper angle brackets	20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars
References	04672	04766

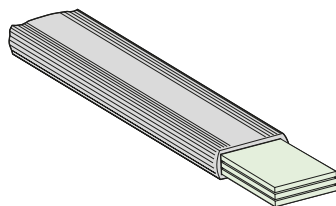


PEN conductor			
	Linergy TB PEN installation kit with LGY vertical profile	1600 A connection 10 mm horizontal busbar with Linergy LGY profile	Linergy LGYE vertical connection 1600 A
References	04656	04636	04602

# Accessories for low voltage switchboards

## Insulated flexible bars

DD0381659-SE



### Characteristics

Width	1800 mm
Rated insulation voltage (Ui)	1000 V
Maximum withstand temperature for the insulating material	125 °C

### Connection between device and busbars

The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.

The bar sizes indicated below take into account the derating curves of devices.

Devices	Size (mm)	References
NSX100	20 x 2	04742
NSX160/250	20 x 3	04743
NSX400	32 x 5	04751
NSX630	32 x 8	04753
FM 200 A Linergy	20 x 3	04743
FC 3P Linergy	32 x 8	04753
FC 4P Linergy	32 x 8	04753
Fupact 250	24 x 5	04746
Fupact 400	32 x 5	04751
Fupact 630	32 x 8	04753

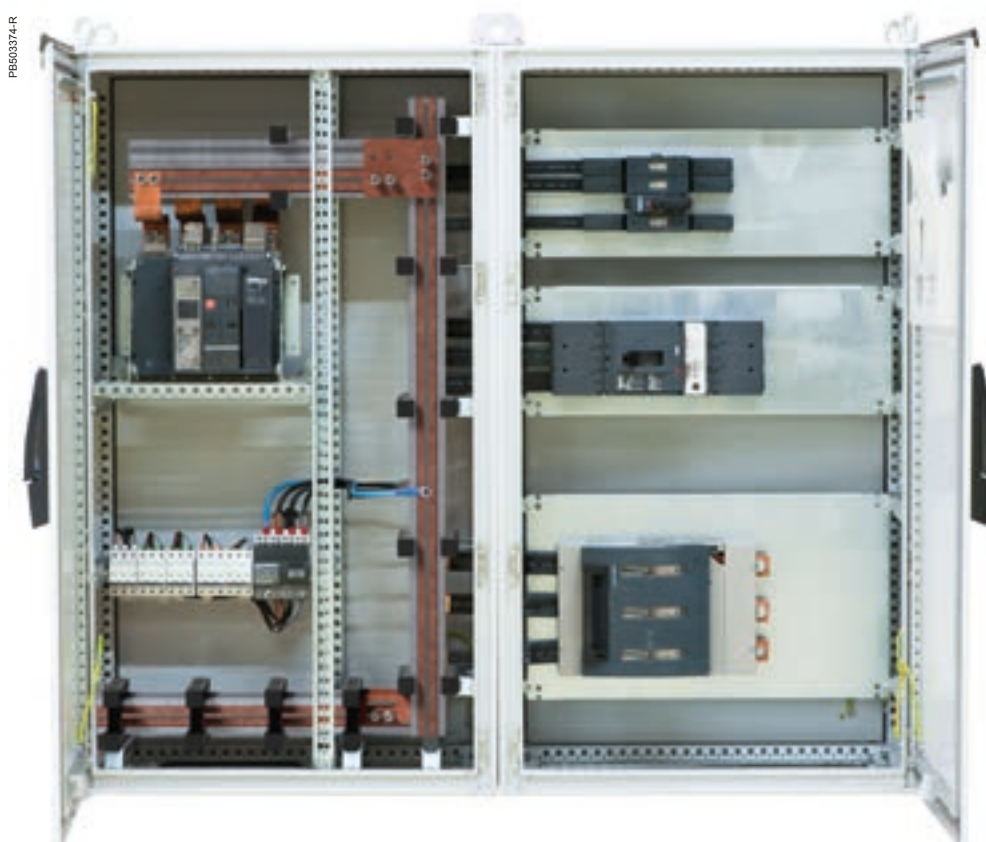
# Accessories for low voltage switchboards

## IEC 61439-2 certified assemblies

### Introduction

Because low-voltage switchboards must comply with the IEC 61439-2 standard, we have tested the most unfavourable and the most representative configurations (§ 10.10.2 of IEC 61439-1 ed2 2011) ranging up to 4000 A. We thus cover the entire product range, based on the Spacial SF universal assembly system, allowing you to thus comply with the requirements of the standard.

Whether you are an OEM or a panelbuilder, using universal enclosures and looking for flexibility and reliable assembly advice for integration of the equipment, you will find in this guide how to produce in optimal conditions an electrical switchboard fitted with Schneider Electric equipment.



To meet continuity of service and electrical safety requirements, we provide you with certificates based on assemblies tested with a third-party organization in accordance with the IEC 61439-2 standard, adopting the most commonly used configurations, which will help you to finalize your switchboard with complete confidence using useful, reliable and certain information that has been verified.

These tests cover the entire Spacial SF range of dimensions and supplement our range of tested Spacial SFP enclosures based on the functional unit system of Prisma, and Spacial SFM for MCC applications.

This guide is also an opportunity to give a reminder of the fundamental rules for use of an enclosure and for installation of equipment in Spacial SF.

# Accessories for low voltage switchboards

## IEC 61439-2 certified assemblies

### Compatibility table

Dimensions (mm)			Intensity (A)					
Height	Width	Depth	≤ 800A	≤ 1250A	≤ 1600A	≤ 2500A	≤ 4000A	
1200	600	400	•					
		600	•					
	800	400	•					
		600	•					
1400	600	400	•	•				
	800	400	•	•				
1600	600	600	•	•				
		800	•	•				
	800	600	•	•				
		800	•	•				
1800	600	400	•	•	•			
		500	•	•	•			
		600	•	•	•	•		
		800	•	•	•	•		
	800	400	•	•	•			
		500	•	•	•			
		600	•	•	•	•		
	1000	400	•	•	•			
		500	•	•	•			
		600	•	•	•	•		
	1200	400	•	•	•			
		500	•	•	•			
		600	•	•	•	•		
	2000	600	400	•	•	•		
			500	•	•	•		
			600	•	•	•	•	
800			•	•	•	•	•	
800		400	•	•	•			
		500	•	•	•			
		600	•	•	•	•		
		800	•	•	•	•	•	
1000		400	•	•	•			
		500	•	•	•			
		600	•	•	•	•		
		800	•	•	•	•	•	
1200		400	•	•	•			
		500	•	•	•			
		600	•	•	•	•		
		800	•	•	•	•	•	
1600	400	•	•	•				
	500	•	•	•				
	600	•	•	•	•			
2200	600	600	•	•	•	•		
		800	•	•	•	•	•	
	800	600	•	•	•	•		
		800	•	•	•	•	•	
	1000	600	•	•	•	•		
	1200	600	•	•	•	•		
			800	•	•	•	•	•

\*: Certified dimensions for indicated intensity



IEC 61439-2 certification (**IECEE CB scheme issued by DEKRA**) is valid only once installation has been carried out, according to the recommendations indicated in the technical guide, "how to assemble a Spacial SF switchboard", with the Schneider Electric devices featured in this guide.



**How to assemble a Spacial SF switchboard**  
(Implementation of the standard IEC 61439)  
**Technical guide**

Ref : UE17MK01EN



# Prisma functional system

## Introduction

The Prisma functional system can be used for all types of low-voltage distribution switchboards up to 4000 A, in commercial and industrial environments.



### Switchboard design is very simple



- ① **A metal structure**  
made up of one or more frameworks combined side-by-side or back-to-back.
- ② **A distribution system**  
positioned in a lateral compartment or at the rear of the cubicle are used to distribute electricity throughout the switchboard.
- ③ **Complete functional units**
  - dedicated mounting plate for device installation
  - front plate to block direct access to live parts
  - devices for on-site connections.

The functional units are modular and are arranged rationally, one on top of another, within the enclosure. The components of the Spacial SFP and those of the functional units in particular have been designed and tested taking into account device characteristics. This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.

### Advantages of Prisma system switchboards



- ① **A safe electrical installation**  
The total compatibility of Schneider Electric devices with the Prisma system is a key advantage in ensuring a high level of installation dependability.
- ② **An upgradeable electrical installation**  
Thanks to modular design, Spacial SFP switchboards can be modified easily to integrate new functional units as needed.
- ③ **Total safety for personnel**  
Work in a switchboard must be carried out by authorised persons in compliance with all applicable safety regulations. To increase the safety of personnel, devices are installed behind protective front plates; only the operating handles are accessible. Additional internal protection (partitions, barriers) is available to create form 2, form 3 and form 4 separation to protect against direct contacts with live parts. Terminal shields are mandatory for installation of Compact NSX and INS/INV devices in Prisma system enclosures.

# Prisma functional system

## Introduction

Use of the components in the Prisma functional system ensures the creation of switchboards complying with standards IEC 62208, IEC 61439-2.



### Electrical characteristics



- Rated insulation level of main busbars: 1000 V.
- Rated operational current  $I_e$ : 4000 A.
- Rated peak withstand current  $I_{pk}$ : 220 kA.
- Rated short-time withstand current  $I_{cw}$ : 100 kA rms/1 second.
- Frequency: 50/60 Hz.

### Mechanical characteristics



- Steel sheet metal.
- Structured finish, epoxy-polyester powder.
- Grey colour RAL 7035.
- Can be dismantled.
- Can be combined side-by-side and back-to-back.
- Degree of protection: IP55 according to IEC 60529.
- Degree of protection against mechanical impacts: IK10 (IK08 for the glazed-door) according to IEC 62262.
- Framework dimensions:
  - two widths:
    - W 300: cable compartment
    - W 700: device compartment or cable compartment
  - three depths:
    - D500 up to 1600 A with incoming Masterpact NT and MTZ1 only
    - D600 up to 1600 A with incoming Masterpact NT and MTZ1 only. Possibility to connect with cables from rear
    - D800 up to 3200 A with incoming Masterpact NT and MTZ1 or NW and MTZ2. Possibility to connect to cables from rear or to connect to rear vertical busbars
- height: 2000 mm
- Enclosures for indoor installation.



Electrical switchboards built using the Prisma functional system and Schneider Electric recommendations fully comply with international standard IEC 61439-2.



# Prisma functional system

## Introduction

### The forms according to IEC 61439-2

Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.



In most installations, Spacial SFP cubicles do not require partitioning.

In this case, the switchboard is a Form 1.

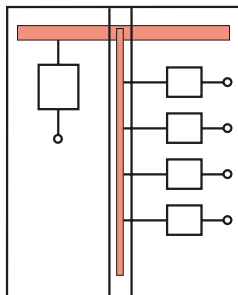
Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

The protection of life and property is a standard feature due to:

- front plates that require a tool to be removed
- keylocks on doors, some of which provide access to live parts
- the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors
- covering of the upstream and downstream terminals on the incoming device so that operators are perfectly safe at all points in the switchboard when the incoming device is off (open).

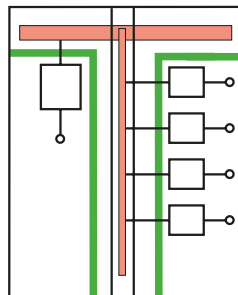
What is more, Spacial SFP offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a and 4b electrical switchboards. Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-2.

#### Form 1



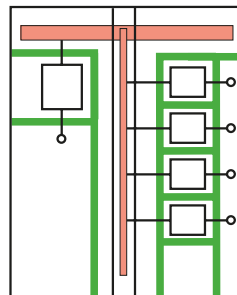
In most installations, Spacial SFP cubicles do not require partitioning. In this case, the switchboard is a Form 1. Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

#### Form 2b



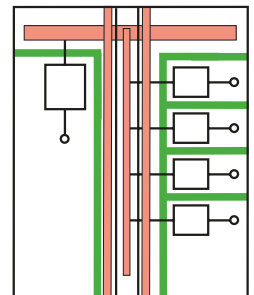
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

#### Form 3b



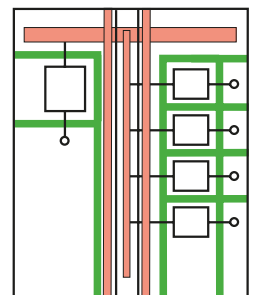
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

#### Form 4a



Terminals for external conductors in the same compartment as the associated functional unit.

#### Form 4b



Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

# Prisma functional system

## Introduction

### Upgradeable Prisma functional units

Functional units include switchgear mounting plates, front plates, connection supports, barriers...

Masterpact  
NW08 to NW40



Masterpact  
NT06 to NT16



Masterpact  
MTZ1 and MTZ2



Compact NSX  
up to 630 A



Compact NS  
from 630b to 1600 A



Compact NS  
up to 3200 A



Easypact  
from 100 to 630 A



Compact INS-INV250-630 A



Compact INS-INV630-2500 A



Source changeover systems  
Compact/Masterpact



Source changeover systems  
Compact INS



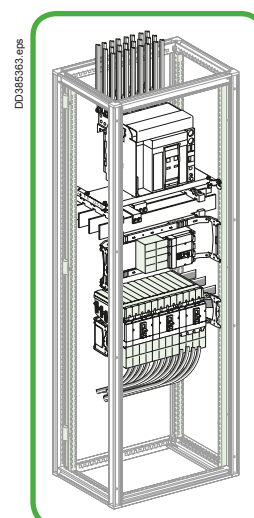
Fupact  
from 32 to 1250 A



Multi 9 - Acti 9



Accessories



For more informations, see the catalogue Prisma P DESW016EN.

# Prisma functional system

## Power busbars

### Linergy LGYE - Horizontal profiles up to 4000 A

Installation in Spacial SFP Linergy profile, 2000 mm length	Up to 1600 A					Up to 4000 A			
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31 630 A	IP > 31 800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3620 A
Number of profiles per phase	1					3		4	
Total number of vertical modules (50 mm)	3					3		4	
Cat. no.	04560	04561	04562	04563	04564	04565	04566	04567	04568

### Busbar supports

NSYBSA		04664	
Characteristics		2 fixed supports for Spacial SFP 700 wide frame are compulsory. 1 fixed support for 300/400 wide frame are compulsory. If more supports are needed, add free supports.	
In cubicle: W700 Busbar supports 75 mm distance between bars	Number of supports	≤ 15	2
	≤ 25	2	
	depending on lcw	≤ 30	2
	(kA rms/1 s)	≤ 40	-
	≤ 40	2	
	≤ 50	-	
	≤ 60	2	2
	≤ 65	-	2+1
	≤ 75	-	2+1
	≤ 85	-	2+1
≤ 100	-	2+2	
Cat. no.	Fixed support	04664	04664 + 04671 (order 1 per support)
	Free support	NSYBSA	NSYBSA + 04671 (order 1 per support)
In duct: W300 Busbar supports 75 mm distance between bars	Number of supports	≤ 15	1
	≤ 25	1	
	depending on lcw	≤ 30	1
	(kA rms/1 s)	≤ 40	1
	≤ 50	1	
	≤ 60	1	
	≤ 65	1 + 1	
	≤ 75	1 + 1	
	≤ 85	1 + 1	
	≤ 100	-	1 + 1
Cat. no.	Fixed support	04664	04664 + 04671 (order 1 per support)
	Free support	NSYBSA	NSYBSA + 04671 (order 1 per support)

### Joints












	Up to 1600 A					Up to 4000 A			
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Cat. no.	3 x 04620 (3P) 4 x 04620 + 04624 (4P)		04623			3 x 04621 (3P) 4 x 04621 + 04624 (4P)		3 x 04623 (3P) 4 x 04623 + 04624 (4P)	
Note	Reference 04624 is compulsory when installing jointed Linergy LGYE 4P busbars and must be fitted where the frames meet. When installed at the bottom of a cubicle, the busbar must be partitioned.								

Note: for accessories, see page 336.

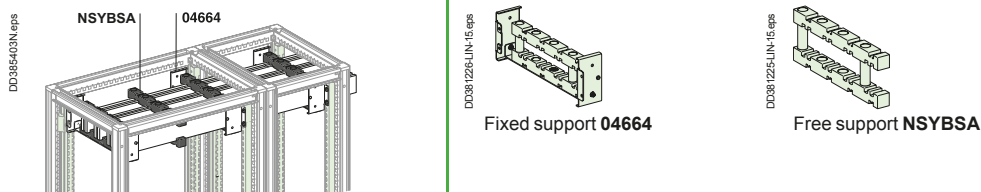
# Prisma functional system

## Power busbars

### Linergy BS - Horizontal flat busbars up to 4000 A











Installation in Spacial SFP	Up to 1600 A				Up to 4000 A								
Copper bar, 2000 mm length													
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31 800 A	IP > 31 750 A	1000 A	1250 A	1400 A	1600 A	1800 A	1800 A	2050 A	2300 A	2820 A	3300 A	3760 A
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	100 x 10	120 x 10		
Number of busbars per phase	1	1	2	2	1	2	2	2	2	2	2	2	2
Total number of vertical modules (50 mm)	3											4	
Cat. no.	04536	04538	04536	04538	04548	04545	04546	04548	04550	04552			

### Busbar supports



In cubicle: W700 with 75 mm distance between bars	Characteristics	2 fixed supports for Spacial SFP 700 wide frame are compulsory. 1 fixed support for 300/400 wide frame are compulsory. If more supports are needed, add free supports.		
Number of supports	≤ 15	2		
depending on l <sub>cw</sub> (kA rms/1 s)	≤ 25	2+1	2	
	≤ 30	2+1	2	
	≤ 40	2+1	2	
	≤ 50	-	2+1	2
	≤ 60	-	2+1	
	≤ 65	-	2+1	
	≤ 75	-	2+2	2+1
	≤ 85	-	-	2+1
Cat. no.	Fixed support	<b>04664</b>		<b>04664 + 04671</b>
	Free support	<b>NSYBSA</b>		<b>NSYBSA + 04671</b>
In duct: W300 with 75 mm distance between bars	Number depending on l <sub>cw</sub> (kA rms/1 s)	≤ 30	1	
		≤ 50	1+1	
		≤ 85	-	
Cat. no.	Fixed support	<b>NSYBHS500 (D500)</b> or <b>NSYBHS600 (D600)</b> or <b>NSYBHS800 (D800)</b>		<b>NSYBHS500 (D500)</b> or <b>NSYBHS600 (D600)</b> or <b>NSYBHS800 (D800)</b> + <b>04671</b>
	Free support	<b>NSYBSA</b>		<b>NSYBSA + 04671</b>

### Joints

Installation in Spacial SFP	Up to 1600 A				Up to 4000 A					
	1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase		2 vertical bars per phase			
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Sliding joints with self-breaking lock nut										
Cat. no.	04640	04641	04640	04641	04641	04640	04640	04641	04641	04643

**Note:** When installed at the bottom of a cubicle, the busbar must be partitioned.

# Prisma functional system

## Power busbars

### Linery LGY - Lateral profiles up to 1600 A

In Spacial SFP duct		Up to 1600 A (single busbar)				
Linery profile, 1670 mm length		W300				
		<b>630 A</b>	<b>800 A</b>	<b>1000 A</b>	<b>1250 A</b>	<b>1600 A</b>
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		<b>04502</b>	<b>04503</b>	<b>04504</b>	<b>04505</b>	<b>04506</b>

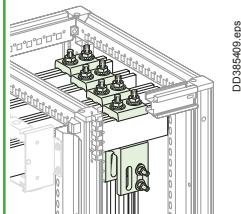
### Busbar supports



Characteristics		Fixed support <b>04651</b>	
			An end stop must be fitted on the bottom support: <b>01109</b> (sold in lots of 12)
Number depending on l <sub>cw</sub> (kA rms/1 s)	≤ 25	<b>3</b>	
	≤ 30	<b>3</b>	
	≤ 40	<b>3</b>	
	≤ 50	<b>4</b>	
	≤ 60	<b>5</b>	
	≤ 65	<b>5</b>	
	≤ 75	<b>7</b>	
	≤ 85	<b>8</b>	

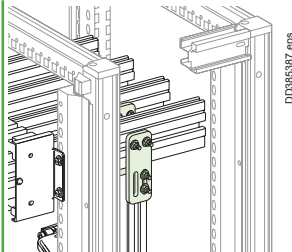
Cat. no. **04651** (set of 2 upright adapters **NSYSFPA** for installation in Spacial SFP cubicle)

### Connections to the Linery BS horizontal busbar



Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no according to horizontal busbar size	5 mm thick	<b>04634</b>	<b>04635</b>
	10 mm thick	<b>04636</b>	
	Width ≤ 80 mm	<b>04636 + 04642</b>	
	Width > 80 mm	<b>04638 + 04642</b>	

### Connections to the Linery LGYE horizontal busbar



Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no.		<b>04602</b> (vertical connection)	<b>04603</b> (vertical shifted connection) <sup>(1)</sup>

(1) Dedicated connection 04603 for Linery LGYE busbar in 150 mm duct with horizontal jointing.

# Prisma functional system

## Power busbars

### Linery LGYE - Lateral profiles up to 4000 A

<b>In Spacial SFP duct</b>		<b>Up to 4000 A</b>											
Linery profile, 2000 mm length		<b>W300</b>											
		<b>630 A</b>	<b>800 A</b>	<b>1000 A</b>	<b>1250 A</b>	<b>1600 A</b>	<b>2000 A</b>	<b>2500 A</b>	<b>3200 A</b>	<b>4000 A</b>			
Permissible current for an ambient temperature of 35 °C around the switchboard		IP ≤ 31 530 A	IP > 31 680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3620			
Length to cut for side mounting		1675 mm								1625 mm			
Number of profiles per phase		1											
<b>Cat. no.</b>		<b>04560</b>	<b>04561</b>	<b>04562</b>	<b>04563</b>	<b>04564</b>	<b>04565</b>	<b>04566</b>	<b>04567</b>	<b>04568</b>			

### Busbar supports

			<b>Fixed support NSYBVS500</b>	<b>Free support NSYBSA</b>	<b>Bottom support NSYAS500</b>
	<b>Characteristics</b>		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).		
	Number depending on I <sub>cw</sub> (kA rms/1 s)	≤ 30 ≤ 40 ≤ 50 ≤ 60 ≤ 65 ≤ 75 ≤ 85 ≤ 100	3 - - - - - - -	3+2 3+2 3+2	3 3 -
<b>Cat. no. of supports depending on distance between bars and duct depth</b>	Spacial SFP duct 75 mm distance between bars W300, D500 W300, D600 W300, D800 Spacial SFP duct 115 mm distance between bars W300, D800	<b>NSYBVS500 (fixed) + NSYBSA (free) + NSYAS500 (spacer) <sup>(1)</sup></b> <b>NSYBVS600 (fixed) + NSYBSA (free) + NSYAS600 (spacer) <sup>(1)</sup></b> <b>NSYBVS800 (fixed) + NSYBSA (free) + NSYAS800 (spacer) <sup>(1)</sup></b> <b>NSYBVS800L (fixed) + 04678 (free) + NSYAS800L (spacer) <sup>(1)</sup></b>			

(1) If using a 100 x 10 bars, add a pack of screws ref. 04671 for each fixed support and free support.

### Wedging busbars in position

		<b>Wedge fitted on bottom support 04658</b>	<b>Wedge fitted on bottom support 04659</b>
<b>Characteristics</b>		The bottom support is used to place profiles and ensure they are in the correct position. It is not considered to be a busbar support.	
<b>Cat. no.</b>	Bottom support	<b>04663</b>	<b>04666 + 04661</b>
	Wedge	<b>04658</b>	<b>04659</b>

### Connections to the Linery LGYE horizontal busbar

		<b>2000/2500 A</b>	<b>3200/4000 A</b>
<b>Characteristics</b>		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
<b>Cat. no.</b>		<b>04604 (short connection)</b> <b>04605 (long connection)</b>	<b>04607</b>

# Prisma functional system

## Power busbars

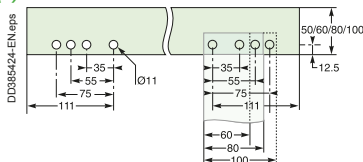
Linery BS - Lateral flat busbars up to 3200 A		Up to 1600 A				Up to 3200 A							
In Spacial SFP duct		W300 D500/600/800				W300 D500/600/800							
Pre-slotted copper, 1675 mm length													
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3200 A	
	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A	
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	
Number of busbars per phase		1		2		1		2					
Cat. no.		04516	04518	04516	04518	04525	04526	04528	04525	04526	04528	04550 <sup>(1)</sup>	

Busbar supports		
	Description	3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.
	Number of supports	≤ 15: 3; ≤ 25: 3+2; ≤ 30: 3+2; ≤ 40: 3+4; ≤ 50: 3+4; ≤ 60: 3+4; ≤ 65: 3+4; ≤ 75: 3+6; ≤ 85: 3+6
	Number of supports depending on lcw (kA rms/1 s)	≤ 15: 3; ≤ 25: 3; ≤ 30: 3; ≤ 40: 3; ≤ 50: 3; ≤ 60: 3; ≤ 65: 3; ≤ 75: 3; ≤ 85: 3
	Cat. no. of supports depending on distance between bars and duct depth	Spacial SFP duct W300, D500: NSYBVS500 (fixed) + NSYBSA (free) + NSYAS500 (spacer) <sup>(2)</sup> 75 mm distance between bars: W300, D600: NSYBVS600 (fixed) + NSYBSA (free) + NSYAS600 (spacer) <sup>(2)</sup> W300, D800: NSYBVS800 (fixed) + NSYBSA (free) + NSYAS800 (spacer) <sup>(2)</sup> Spacial SFP duct W300, D800: NSYBVS800L (fixed) + 04678 (free) + NSYAS800L (spacer) <sup>(2)</sup> 115 mm distance between bars

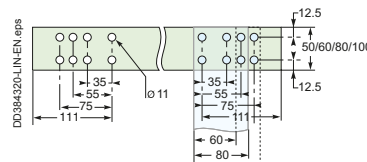
(1) Copper bar without holes.  
 (2) If using a 100 x 10 bars, add a pack of screws ref. 04671 for each fixed support and free support.

Connections to the Linery BS horizontal busbar	
	<p>For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.<sup>(3)</sup></p>
	<p>References 04636, 04637, 04638 are supplied individually: 1 connection per phase. Reference 04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.</p>
<p>Characteristics</p>	<p>1 vertical bar per phase: 60 x 5, 80 x 5                  2 vertical bars per phase: 60 x 5, 80 x 5                  1 vertical bar per phase: 50 x 10, 60 x 10, 80 x 10                  2 vertical bars per phase: 50 x 10, 60 x 10, 80 x 10, 100 x 10</p>
<p>Cat. no. of the connection piece depending on horizontal busbar size</p>	<p>≤ 80 mm: 04645                  &gt; 80 mm: 04645                  04636, 04637, 04638, 04637 + 04642, 04637 + 04642, 04638 + 04642</p>

(3) Drill hole dimensions for 5 mm thick horizontal busbars.








Drill hole dimensions for 10 mm thick horizontal busbars.



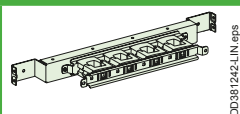
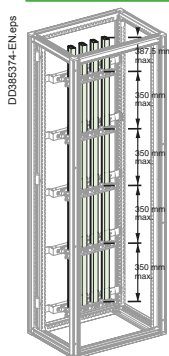
# Prisma functional system

## Power busbars

### Linery LGYE - Rear profiles up to 1600 A

		Up to 1600 A				
<b>At the rear of a Spacial SFP cubicle</b>		<b>W700</b>				
Linery profile, 1670 mm length						
		<b>630 A</b>	<b>800 A</b>	<b>1000 A</b>	<b>1250 A</b>	<b>1600 A</b>
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
<b>Cat. no.</b>		<b>04502</b>	<b>04503</b>	<b>04504</b>	<b>04505</b>	<b>04506</b>

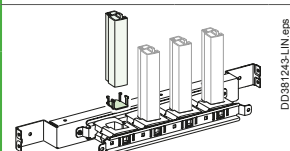
### Busbar supports



Fixed support **04652**

Number depending on l <sub>cw</sub> (kA <sub>rms</sub> /1 s) ≤ 25	<b>3</b>
≤ 30	<b>4</b>
≤ 40	<b>5</b>
≤ 50	<b>7</b>

Characteristics

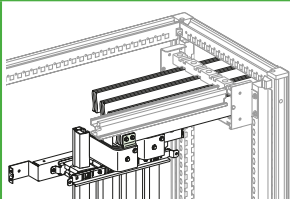


An end stop must be fitted on the bottom support **01109** (sold in lots of 12)

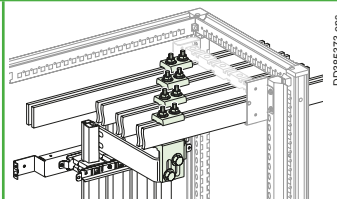
**Cat. no.**

**04652**

### Connections to the Linery BS horizontal flat busbar



**04635** connection to 5 mm thick horizontal busbar



**04636** connection to 10 mm thick horizontal busbar

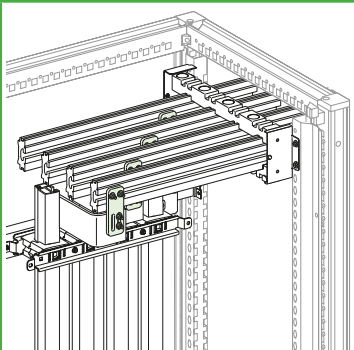
Characteristics

Fixings supplied, order 1 connection per phase.  
For part of the connection, flexible insulated busbars are needed.

**Cat. no. according to horizontal busbar size**

5 mm thick	<b>04635</b>
10 mm thick	<b>04636</b>
Width ≤ 80 mm	
Width > 80 mm	<b>04636 + 04642</b>

### Connections to the Linery LGYE horizontal flat busbar



**04602** connection to the Linery LGYE horizontal flat busbar

Characteristics

Fixings supplied, order 1 connection per phase.  
For part of the connection, flexible insulated busbars are needed.

**Cat. no.**

**04602**



# Prisma functional system

## Power busbars

### Linery LGYE - Rear flat busbars up to 1600 A

	Up to 1600 A					
At the rear of a Spacial SFP cubicle	W700					
Pre-slotted copper, 1670 mm length						
Permissible current for an ambient temperature of 35 °C around the switchboard	800 A	1000 A	1400 A	1000 A	1200 A	1600 A
	800 A	1000 A	1400 A	-	-	-
	750 A	900 A	1250 A	1080 A	1250 A	1600 A
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	50 x 10	60 x 10	80 x 10
Number of busbars per phase	1		2	1		
Cat. no.	04516	04518	04516	04525	04526	04528

### Busbar supports

DD380732-LIN.eps

Fixed busbar support **04653**

DD381652-LIN.eps

Busbar free support **NSYBSA**

DD380734.eps

Mounting chocks **04669**

**Characteristics**

3 fixed supports ref. 04653 are compulsory to keep the busbar vertical. If more than 3 supports are needed, use free support ref. NSYBSA (in addition). Metal shim ref. 04669 (sold in lots of 100), 5 mm thick, is screwed onto the busbar. It rests on a fixed support and is used to wedge the busbar in position.

DD380815-LIN.eps

Wedging: 1 busbar/phase

DD380733-LIN.eps

Wedging: 2 busbars/phase

Number depending on Icw (kA rms/1 s)	≤ 15	3	3
	≤ 25	3+2	3
	≤ 30	3+2	3+2
	≤ 40	3+4	3+2
	≤ 50		3+2
	≤ 60	3+4	3+4
	≤ 65		3+4
	≤ 75		3+6
	≤ 85		

Cat. no. **04653 (fixed) + NSYBSA (free) + 04669 (spacer)**

### Connections to the Linery BS horizontal flat busbar

DD386377.eps

**04635** connection to horizontal busbar  
5 mm thick

DD386378.eps

**04636** connection to horizontal busbar  
10 mm thick

**Characteristics**

For part of the connection, flexible insulated busbars are needed. References **04635**, **04636** are supplied individually = 1 connection per phase. Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.

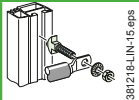
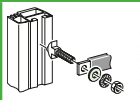

Cat. no. according to horizontal busbar size	5 mm thick	<b>04635</b>	
	10 mm thick	Width ≤ 80 mm	<b>04636</b> <sup>(1)</sup>
		Width > 80 mm	<b>04636 + 04642</b> <sup>(1)</sup>

<sup>(1)</sup> To be made.

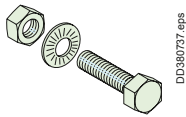
# Prisma functional system

## Power busbars


### Linery LGYE - Accessories

		 DD381216-LIN-15.eps	 DD381216-LIN-15.eps	 DD381222-LIN-10.eps
Linery screw	Characteristics	Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.		
	<b>Cat. no.</b>	25 mm length	see the table "Connections on Linery LGYE & LGY" below	
		39 mm length		
Steel plain washers	Characteristics	M8 sold in lots of 20		
	<b>Cat. no.</b>	ext. Ø20 mm	<b>04772</b>	
		ext. Ø24 mm	<b>04773</b>	
		ext. Ø28 mm	<b>04774</b>	
Brass plain washers	Characteristics	M8 sold in lots of 20 for connection of ≤ 25 mm <sup>2</sup> lugs to Linery		
	<b>Cat. no.</b>	ext. Ø20 mm	<b>04775</b>	
Identification	Characteristics	12 clip-on supports + N, L1, L2, L3, PE, PEN labels		
	<b>Cat. no.</b>	<b>04794</b>		
	Characteristics	Linery LGYE busbar screw plate kit after sales service		
	<b>Cat. no.</b>	<b>01130</b>		

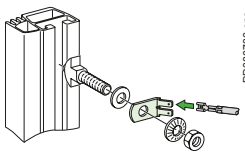
### M8 bolts

		 DD380737.eps
Linery BS, 20 bolts 8.8 class	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers.
	<b>Cat. no.</b>	M8 x 20 <b>04782</b>
		M8 x 25 <b>04783</b>
		M8 x 30 <b>04784</b>
		M8 x 35 <b>04785</b>
		M8 x 40 <b>04786</b>
		M8 x 45 <b>04787</b>
		M8 x 50 <b>04788</b>




### Torque nuts

		 DD380735.eps
20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	<b>Cat. no.</b>	<b>04759</b>

### Voltage tap-offs

		 DD380736.eps
20 M10 voltage tap-offs for two 6.35 mm tab connectors	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. 04775) between the busbar and the lug.
	<b>Cat. no.</b>	<b>04229</b>

## ★ Connections on Linery LGYE & LGY

InA (A)		Connection on Linery	Utilisation	Cat. no.	
0 to 630	Cable Insulated flexible bar	Use the 25 mm Linery screw	Recommended	<b>04766</b>	
		Use the 39 mm Linery screw	Possible	<b>04767</b> <sup>(1)</sup>	
800 to 1250	5 mm thick bar	Use the 25 mm Linery screw	Recommended	<b>04766</b>	
		Use the 39 mm Linery screw	Possible	<b>04767</b> <sup>(1)</sup>	
		Use the flat plate screw with 2 studs	Possible	<b>04768</b>	
1600 to 2500	5 or 10 mm thick bar	Use the flat plate screw with 2 studs	Recommended	<b>04768</b>	
		Use the 39 mm Linery screw	Possible	<b>04767</b> <sup>(1)</sup>	
3200 to 4000	10 mm thick bar	Use the flat plate screw with 3 studs	Recommended	<b>04769</b>	

<sup>(1)</sup> **04767** is only compatible with Linery LGY.

# Prisma functional system

## Characteristics

### Form 1 partitioning



#### Presentation

**Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.**

In most installations, Spacial SFP cubicles do not require partitioning. In this case, the switchboard is a Form 1.

Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

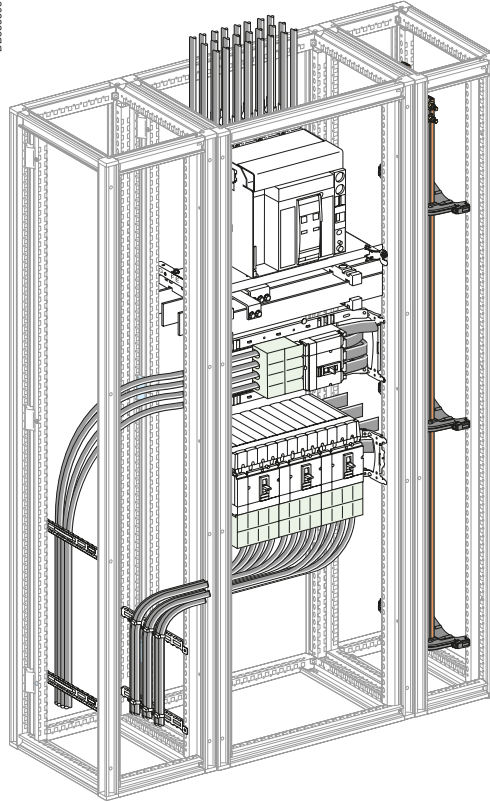
The protection of life and property is a standard feature due to:

- > front plates that require a tool to be removed
- > keylocks on doors, some of which provide access to live parts
- > the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors.

What is more, Spacial SFP offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a & 4b electrical switchboards.

Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-2.

DD3885393



*The protection of life and property is ensured by the systematic installation of terminal shields on Compact NSX circuit breakers and on Compact INS and INV switch-disconnectors (see the pages on the functional units).*

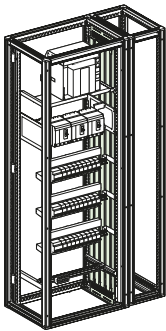
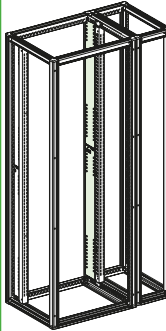
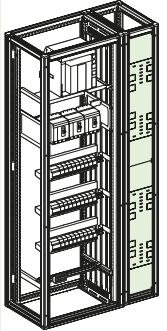
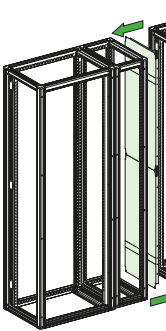
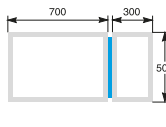
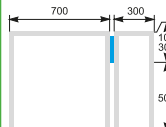

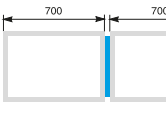
# Prisma functional system

## Characteristics

### Form 2b partitioning

Separation of busbars from the functional units:

- protection against contact with live parts upstream of the outgoing circuits
- protection against penetration of foreign solid bodies.

	Lateral partitioning	Form 2 restoration for side-barrier cut-out	Partitioning extension	Front and rear barrier	Inter-cubicle partitioning
					
					
<b>Characteristics</b>	<ul style="list-style-type: none"> <li>■ Vertical barrier made of insulating slats.</li> <li>■ Can be installed on both sides of Linergy and flat busbars.</li> <li>■ The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm<sup>2</sup>, while maintaining the degree of protection IP2X compliance with standard IEC 60695.2.1 concerning withstand to fire.</li> </ul>	<ul style="list-style-type: none"> <li>■ This kit enables passage of the connection between a device &gt; 1600 A (NW, INS) and lateral vertical busbars.</li> <li>■ It is made up of an insulated plate (six modules H 300 mm) that can be cut as required, supplied with supports and the necessary hardware.</li> </ul>	<ul style="list-style-type: none"> <li>■ For the Spacial SFP system switchboards 600 and 800 mm depth, a partitioning extension is required.</li> </ul>	<ul style="list-style-type: none"> <li>■ Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends.</li> <li>■ Rear protection, a barrier is required at the rear of the busbar compartment in cubicles that are 800, 1000 and 1300 mm deep.</li> </ul>	<ul style="list-style-type: none"> <li>■ Metal partition, used to separate two adjacent cubicles.</li> <li>■ It is made up of two panels, each 850 mm high.</li> <li>■ The top and bottom ends have knock-outs for horizontal busbars.</li> <li>■ Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.</li> </ul>
<b>Referencias</b>	<b>06545</b>	<b>04924</b>	D600: <b>06541</b> D800: <b>06543</b>	<b>06540</b>	D500: <b>06555</b> D600: <b>06555 + 06541</b> D800: <b>06555 + 06543</b>

### Partitioning of horizontal busbars

	W300			W700		
<b>Designation</b>	<ul style="list-style-type: none"> <li>■ Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.</li> <li>■ The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle.</li> <li>■ The space required for the busbars is not increased.</li> </ul>					
<b>For Depth</b>	D500	D600	D800	D500	D600	D800
<b>Cat. no. for 3M busbar</b>	<b>06560</b>	<b>06561</b>	<b>06563</b>	<b>06570</b>	<b>06570</b>	<b>06570</b>
<b>Cat. no. for 4M busbar</b>	<b>06568</b>	<b>06568</b>	<b>06568</b>	<b>06567</b>	<b>06567</b>	<b>06567</b>

**Note:** when the busbars are at the bottom of the cubicle, gland plates are mandatory.

# Prisma functional system

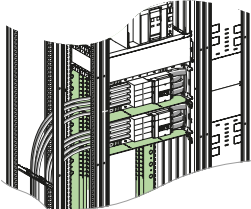
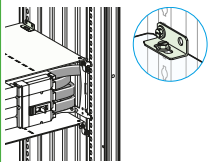
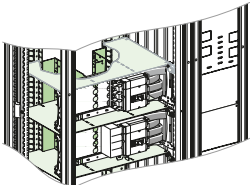
## Characteristics

### Form 3b partitioning

Separation of busbars from the functional units and separation of all functional units from one another.

Separation of the terminals for external conductors from the functional units, but not from each other.

- protection against contact with live parts
- reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

Front connection		Rear connection			
 <p style="font-size: 8px; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">DD384420.eps</p>	 <p style="font-size: 8px; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">DD384422.eps</p>	 <p style="font-size: 8px; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">DD384421.eps</p>			
<b>Horizontal metal partition, W650 mm</b>	<b>Rear support for partitions, W650 mm</b>	<b>6 universal angle brackets</b>	<b>Rear connection</b>		
<b>Characteristics</b> <ul style="list-style-type: none"> <li>■ A horizontal metal partition can be used to physically separate functional units from one another.</li> </ul>	<ul style="list-style-type: none"> <li>■ It is fixed at the rear by a support (two uprights) secured to the framework (500 mm deep) or to the intermediate uprights (800 mm deep frameworks).</li> </ul>	<ul style="list-style-type: none"> <li>■ A set of brackets can be used to install partial Form 3 partitioning in the cubicle.</li> <li>■ It does not take up any useful space in the switchboard.</li> </ul>	<ul style="list-style-type: none"> <li>■ Vertical partitions (two cat. no. per functional unit)</li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="border: none; width: 50%;">3 to 4 modules</td> <td style="border: none; width: 50%;">5 to 6 modules</td> </tr> </table>	3 to 4 modules	5 to 6 modules
3 to 4 modules	5 to 6 modules				
<b>Cat. no.</b>	<b>04901</b>	<b>04943</b>	<b>03583</b>	<b>04955</b>	<b>04956</b>

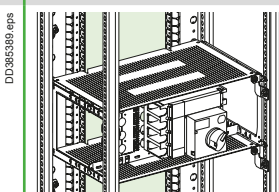
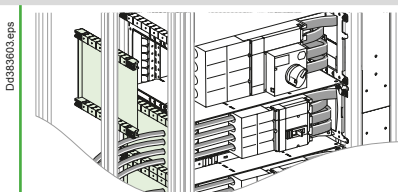
# Prisma functional system

## Characteristics


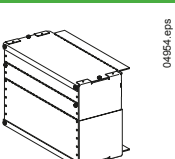
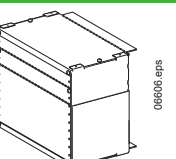
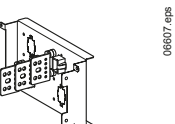
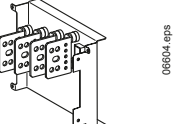
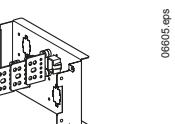
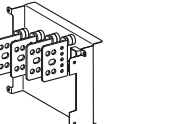
### Form 4 partitioning

- Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit.
- Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
- Form 4a: terminal for external conductors in the same compartment as the associated.
- Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

#### Form 4a partition

Form 4a partition																
For front connection																
	 															
	<table border="1"> <tr> <td><b>Form 4a backplate (one cat. no. per cubicle)</b></td> <td><b>Form 4a gland plate</b></td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>■ a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 500 mm deep frameworks.</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>■ a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.</li> </ul> </td> </tr> <tr> <td></td> <td> <table border="1"> <tr> <td>3 or 4 modules</td> <td>5 or 6 modules</td> </tr> </table> </td> </tr> <tr> <td><b>Characteristics</b></td> <td></td> </tr> <tr> <td><b>Cat. no.</b></td> <td> <table border="1"> <tr> <td><b>04946</b></td> <td><b>04951</b></td> <td><b>04952</b></td> </tr> </table> </td> </tr> </table>	<b>Form 4a backplate (one cat. no. per cubicle)</b>	<b>Form 4a gland plate</b>	<ul style="list-style-type: none"> <li>■ a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 500 mm deep frameworks.</li> </ul>	<ul style="list-style-type: none"> <li>■ a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.</li> </ul>		<table border="1"> <tr> <td>3 or 4 modules</td> <td>5 or 6 modules</td> </tr> </table>	3 or 4 modules	5 or 6 modules	<b>Characteristics</b>		<b>Cat. no.</b>	<table border="1"> <tr> <td><b>04946</b></td> <td><b>04951</b></td> <td><b>04952</b></td> </tr> </table>	<b>04946</b>	<b>04951</b>	<b>04952</b>
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<b>04946</b>	<b>04951</b>	<b>04952</b>														

#### Form 4b partition

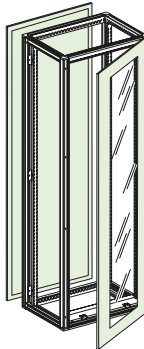
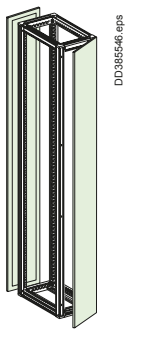

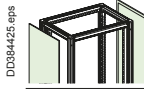

	  							
			 		 			
			<b>Connection transfer assembly, 3 to 5 modules, 250 A</b>		<b>Connection transfer assembly, 4 to 6 modules, 630 A</b>			
<b>Characteristics</b>	<ul style="list-style-type: none"> <li>■ a cover with metallic gland plates that can be easily cut out on the side and bottom. It is available in two heights:</li> </ul>		<ul style="list-style-type: none"> <li>■ transfer assembly without connection to simplified the cable installation.</li> </ul>		<ul style="list-style-type: none"> <li>■ transfer assembly without connection to simplified the cable installation.</li> </ul>			
	3 to 5 modules	4 to 6 modules	3P	4P	3P	4P		
<b>Cat. no.</b>	<b>06600</b>	<b>06601</b>	<b>06606</b>	<b>06607</b>	<b>06604</b>	<b>06605</b>		

# Prisma functional system

## Selection guide

### Common characteristics

- Roof characteristics:
  - equipped with a factory-mounted polyurethane (PUR) gasket
  - supplied with mounting hardware
  - with markings for clear identification of cable-running zones
- The cables compartment can be mounted on the right or left.
- Can be combined side-by-side or back-to-back.
- Receive the IP55 (according to IEC 60529) cover panels.

Mounting	W700			W300		
	 DD385545.eps			 DD385546.eps		
<b>Depth</b>	<b>D500</b>	<b>D600</b>	<b>D800</b>	<b>D500 (1)</b>	<b>D600 (1)</b>	<b>D800 (1)</b>
Assembled enclosures H2000 Plain door	NSYSFP20750	NSYSFP20760	NSYSFP20780	NSYSF20350	NSYSF20360	NSYSF20380
Assembled enclosures H2000 Glazed door	NSYSFP20750T	NSYSFP20760T	NSYSFP20780T	-	-	-
Adapter uprights for busbar installation in vertical on Linergy LGY	-	-	-	NSYSFPA	NSYSFPA + NSYSUCR40200	NSYSFPA + NSYSUCR40200
 06502.eps <b>Side panel (Set of 2) (2)</b>	NSY2SP205	NSY2SP206	NSY2SP208	NSY2SP205	NSY2SP206	NSY2SP208
 DD384425.eps <b>Pivoting frame (3)</b>	08566	08566	08566	-	-	-
 DD381324.eps						

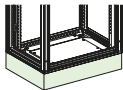
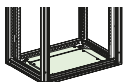
(1) For cables and to install Linergy LGYE, BS busbar.

(2) An earthing braid must be installed between the lateral panels and the frame.


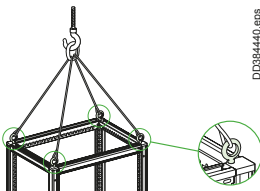
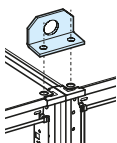
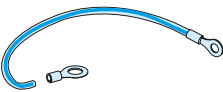

(3) Reversible for left or right-hand opening.

# Prisma functional system

## Selection guide

Accessories								
Width		W700			W300			
Depth		D500	D600	D800	D500	D600	D800	
 DD394426.eps	Plinth H100 (1)	Front and rear cross-pieces	NSYSPPF7100	NSYSPPF7100	NSYSPPF7100	NSYSPPF3100	NSYSPPF3100	
		Lateral cross-pieces	NSYSPPS5100	NSYSPPS6100	NSYSPPS8100	NSYSPPS5100	NSYSPPS6100	NSYSPPS8100
	Plinth H200 (1)	Front and rear cross-pieces	NSYSPPF7200	NSYSPPF7200	NSYSPPF7200	NSYSPPF3200	NSYSPPF3200	NSYSPPF3200
		Lateral cross-pieces	NSYSPPS5200	NSYSPPS6200	NSYSPPS8200	NSYSPPS5200	NSYSPPS6200	NSYSPPS8200
 DD394427.eps	1 entrie gland-plates		NSYEC751	NSYEC761	NSYEC781	NSYEC351	NSYEC361	

(1) The plinth is made up of two catalogue numbers: front and rear cross-pieces + lateral cross-pieces.

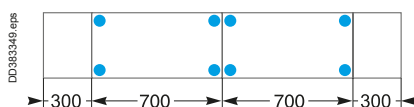
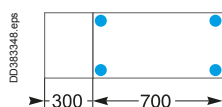
Other accessories						
	 DD395544.eps	 DD394440.eps	 NSYFELB.eps		 DD384368.eps	 UE_L1_1_2R.eps
	<b>Coupling kit</b>	<b>4 lifting rings</b>	<b>4 lifting brackets</b>	<b>Set of 20 screws + M6 nuts</b>	<b>Earthing wire, 6 mm<sup>2</sup></b>	<b>Earthing braid (3)</b>
<b>Description</b>	<ul style="list-style-type: none"> <li>side-by-side combination</li> <li>back-to-back combination (2):               <ul style="list-style-type: none"> <li>- D500+D500</li> <li>- D800+D500</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Use a set of lifting rings for each framework (4) (W700 mm) containing devices.</li> </ul>	<ul style="list-style-type: none"> <li>When two cubicles with devices have been combined, use a lifting beam.</li> </ul>		<p>The wire is equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other.</p> <p>The earthing wire is used to earth:</p> <ul style="list-style-type: none"> <li>a door or wicket door with devices</li> <li>a front-plate support frame equipped with switchgear in a cubicle.</li> </ul>	<ul style="list-style-type: none"> <li>For NSYEL166D8: Length 160 mm, Section 6 mm<sup>2</sup>, Terminal 8.3 mm.</li> <li>For NSYEL3525D8: Length 350 mm, Section 25 mm<sup>2</sup>, Terminal 8.3 mm.</li> </ul>
<b>Cat. No.</b>	NSYSFBK19	NSYSFEB	NSYFELB	06461	08911	NSYEL166D8 / NSYEL3525D8

(2) Back to back association must be shipped individually and combined during on-site installation.

(3) An earthing braid must be installed between the roof and the frame.

(4) For one framework

For two frameworks





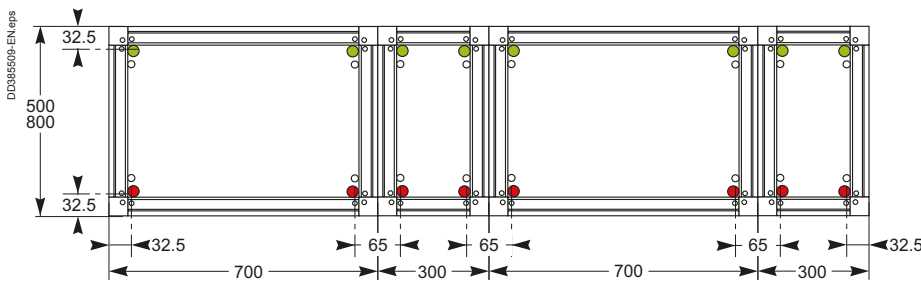
Seismic application 3G withstand					
		1600 A configuration (1)		3200 A configuration	
		Spacial SFP	Busbar duct	Spacial SFP	Busbar duct
Nominal dimensions	Height	2000	2000	2000	2000
	Width	700	300	700	300
	Depth	500	500	800	800
Additional dummy load (kg)		350	350	450	450
<b>Seismic plinth H100 mm - Cat. no.</b>		<b>NSYS5GPC75</b>	<b>NSYS5GPC35</b>	<b>NSYS5GPC78</b>	<b>NSYS5GPC38</b>

Note: incoming by pre-fabricated busbar trunking is forbidden for seismic application.

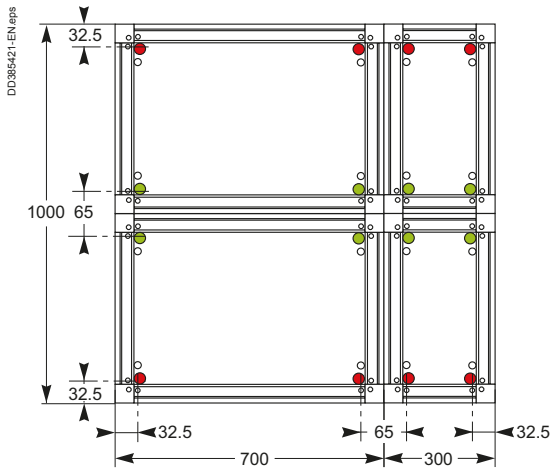
(1) Not compatible for depth 600 mm.

### Ground fastening

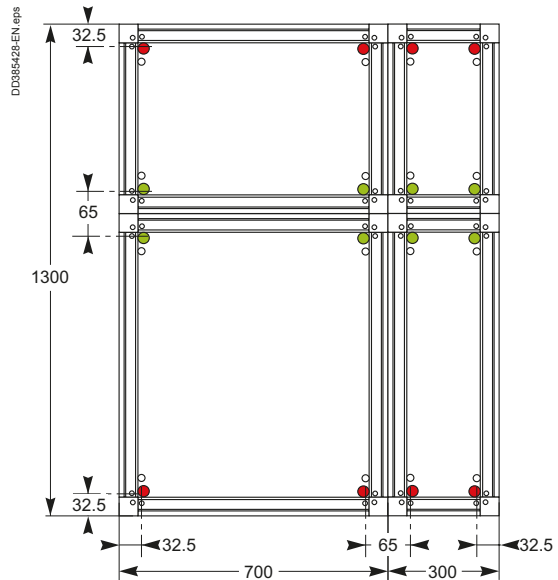
■ Front connection (example: device cubicle W700 mm + compartment W300 mm)



■ Rear connection D1000 (example: device cubicle + compartment D500 + D500 mm)



■ Rear connection D1300 (example: device cubicle + compartment D800 + D500 mm)



- compulsory fixing point
- optional fixing point

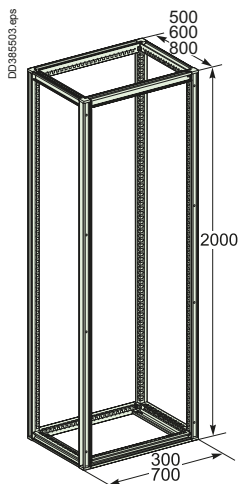
- 8.8-class screws: screw M10 TH
- + washers (external Ø 25 mm, thickness 3 mm)
- + CS contact washers Ø 10 mm.

# Prisma functional system

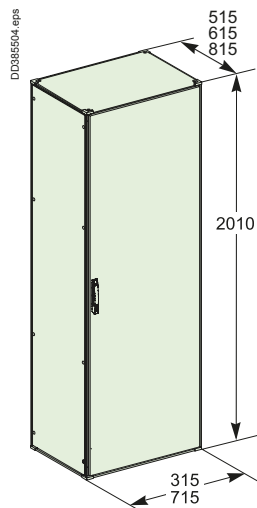
## Dimensions

### Cubicles

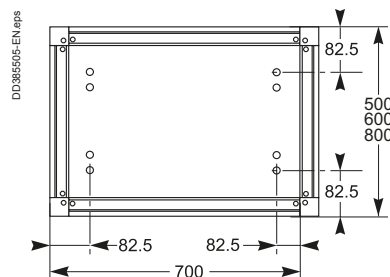
#### Profile



#### Cover panels, plain or transparent door, lateral panels

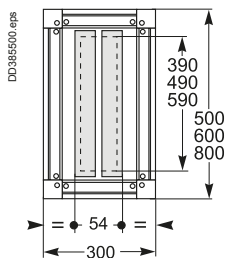


#### Standard plinth

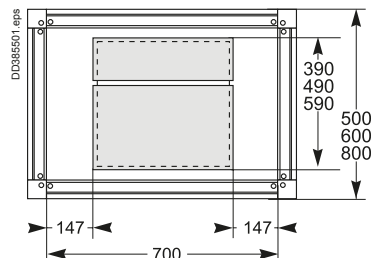


### Gland plates

#### W300

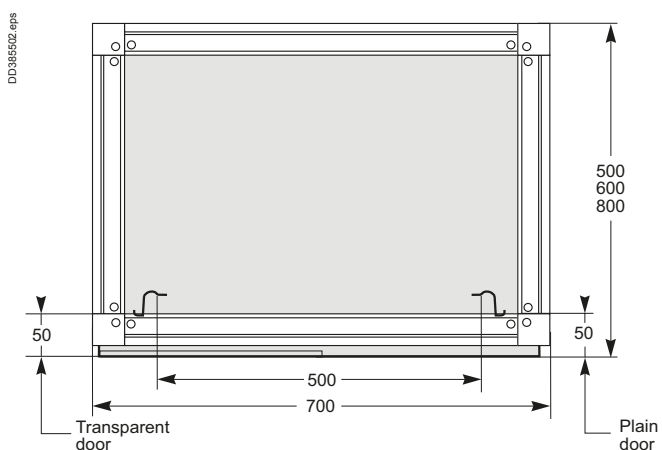


#### W700



### Functional system in Spacial SFP switchboards, cubicle mounting

#### D500, D600, D800



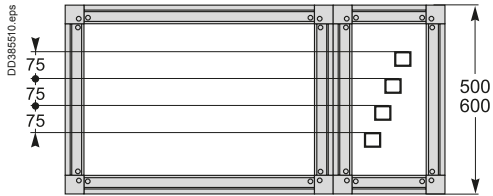
# Prisma functional system

## Dimensions

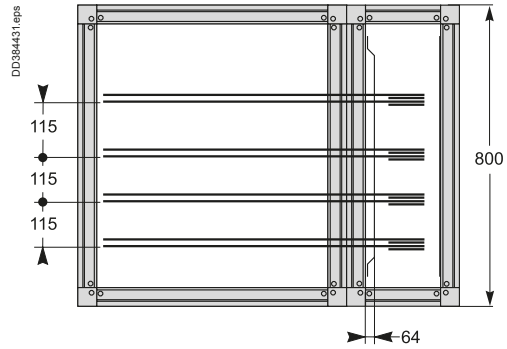
### Ground fastening

#### Busbars mounting, Lateral vertical busbars

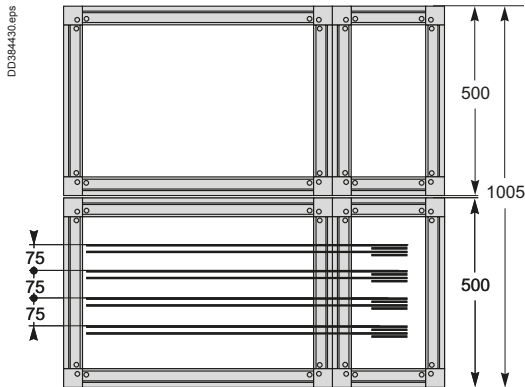
##### 1600 A



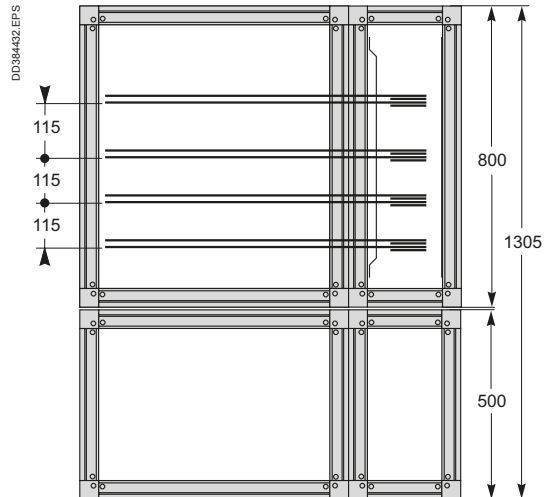
##### 2500 A



##### 2000 A



##### 3200 A



# Compartmentalised enclosure for Motor Control Centres

## Fixed compartmentalised switchboards for Motor Control Centres

The Spacial SFM compartmentalised functional fixed system can be used for motor control centres in industrial environments.

It has been tested taking into account device characteristics.

This ensures a high degree of reliability in system operation and optimum safety.

Devices can be mounted on universal mounting plates on a workcut-out to simplify installation in the switchboard.

### Fixed functional system for Motor Control

The fixed functional system for Motor Control Centres is designed for installation of motor starters up to 250 kW.



PB502888-75

# Compartmentalised enclosure for Motor Control Centres

## Motor protection

In addition to the motor power and the starter type (direct, reversing, star-delta...), 4 main criteria have to be taken into account when choosing a motor starter:

- the operational voltage,
- the type of thermal protection, electro-mechanical or electronical,
- the type of magnetic protection, according to the switchboard's Isc,
- the type of installation, according to the required availability level.

### Operational voltage

Network's operational voltage is a decisive parameter in the choice of motor protection. Indeed, the operational voltage will have an impact on the device's performances and the installation constraints.

For instance, the voltage will influence:

- the breaking performances,
- the safety areas.

### Motor protection

#### Protecting the motors to extend their lifetime

- Overheating in electrical motors is caused by copper and ferro-magnetic losses:
  - the current  $I$  is proportional to the motor's load. Copper losses are proportional to  $I^2$  (stator and rotor),
  - hysteresis cycles in ferro-magnetic materials and the induced Foucault currents cause overheating, which is in particular proportional to frequency.
- The consequence of abnormal overheatings is a reduced isolation capacity of the materials, thus leading to a significant shortening of the motor lifetime, as shown in the opposite diagram.
- In continuous or semi-continuous processes, availability is a major issue. It is therefore decisive to observe accurately the operating conditions of the motors.
- Motor protection relays are the components dedicated to this task. They provide various levels of accuracy and functionalities, in order to meet the expectations of the process manager.

#### Supervising finely the motors to improve process availability

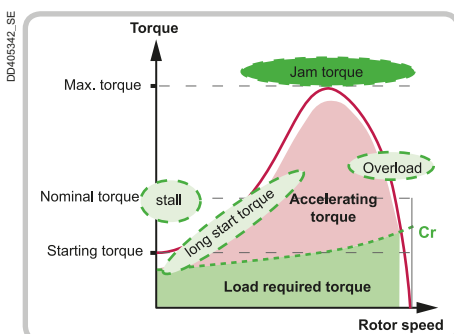
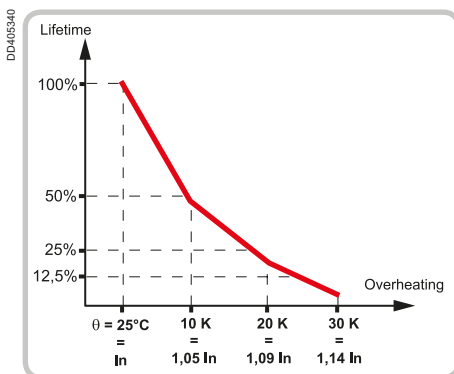
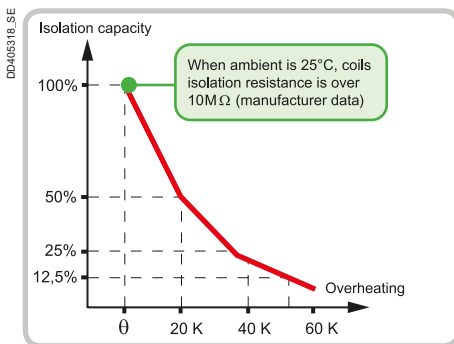
■ An electrical motor transforms electrical energy in mechanical energy. When the voltage, current and frequency change, the speed and torque of the motor change too. And conversely, any changes in charge have a direct impact on the electrical parameters.

- **Electromechanical thermal relays** protect the motor against overloads.
- **Electronical relays** protect the motor against overloads, on the basis of very sophisticated and highly accurate thermal patterns.
  - These relays are able to make out several cases of motor overload, and to transmit the information, thus allowing the operator to have a better understanding of the true nature of the problem,
  - These relays report for many complementary parameters, providing useful informations to the operator, therefore giving him the opportunity to avoid motor stops, or to re-start quickly if a stop has occurred.
- Examples:
  - motor under-load can be the signal of a pump cavitation,
  - phase inversion can be the indication of a maintenance error, that should be hard to diagnose without that sign.

□ In addition to the observation of currents, the electronical relays can monitor the voltage, and consequently the power and the power factor. They can also watch the leakage currents and measure the actual coil temperature whenever it has a built-in sensor.

All these informations give an additional level of anticipation and shrewdness to help coping with problems.

□ Finally, electronical relays can take on information-processing functions, like state and faults statistics. They are also able to suggest logical solutions, and to react in a process-specific way.



# Compartmentalised enclosure for Motor Control Centres

## Motor protection

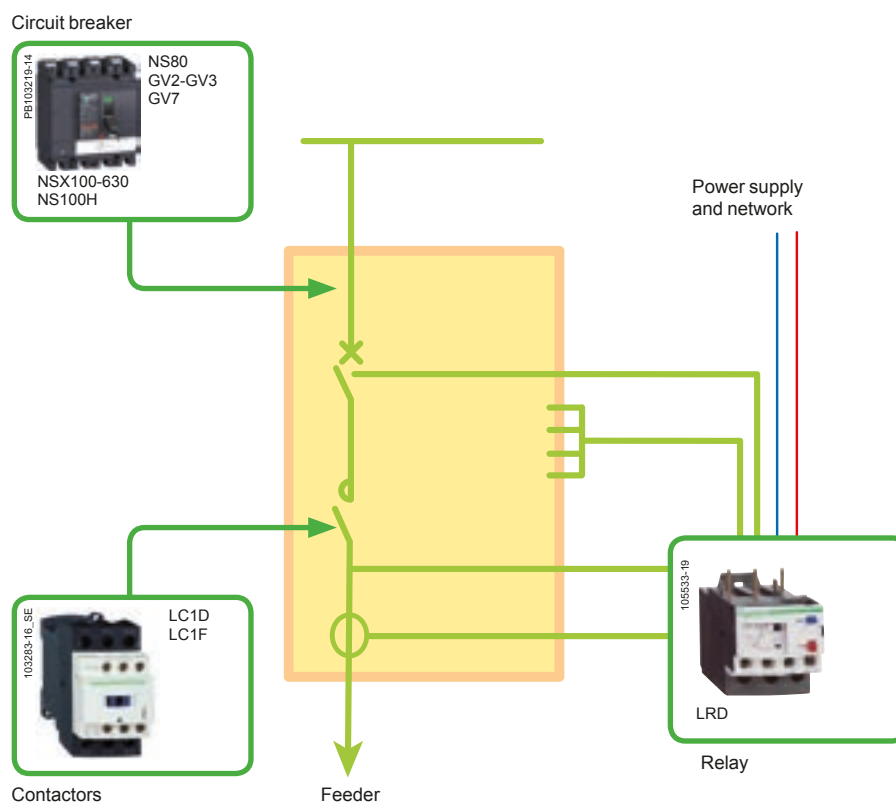
### Magnetic protection: circuit-breakers and fuses

Schneider Electric have chosen to put forward circuit-breakers each time it is possible, as they have advantages in terms of maintenance and capacity of quick re-operating.

The advantages of magnetic circuit breakers over fuses are listed below:

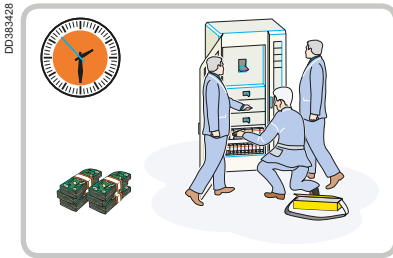
- universal solution that can be exported to all countries, unlike the fuses, which standards are not coordinated,
- reduced dimensions,
- limited temperature rise,
- faster maintenance,
- no risk of over-rating the fuse cartridge (causing the motor destruction) or underrating (untimely tripping).

### Spacial SFM: a combination for control motor starter

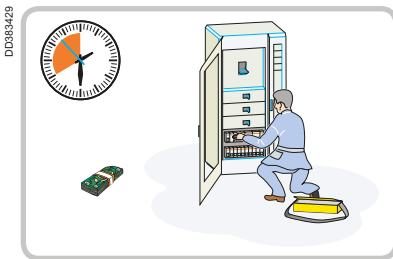


# Compartmentalised enclosure for Motor Control Centres

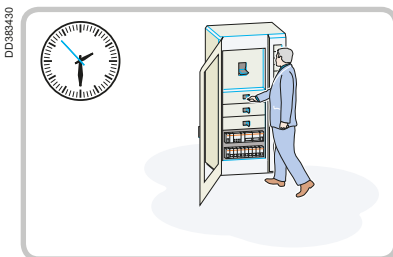
## Coordination



Type 1 coordination



Type 2 coordination



Total coordination

### Coordination, what is it about?

A "motor starter" can be made up of 1, 2, or 3 different devices. They have to be coordinated in a way they ensure an optimal operation of the installation.

### Aims of coordination

In case of a fault, the coordination's purposes are:

- to protect of the people and the equipment,
- to permit continuity of service,
- to reduce maintenance costs (manpower and replacement equipment).

### Types of coordination as per IEC 60947-4-1

- Type 1 coordination: basic solution
  - no continuity of service,
  - important maintenance costs in case of a fault (manpower and equipment).
- Type 2 coordination: solution ensuring continuity of service
  - reduced machine shutdown time,
  - reduced cost of replacement equipment.
- Total coordination: withdrawable solutions as per IEC 60947-6-2:
  - no damage nor resetting of devices following a fault,
  - installation immediate return to operation.

### Schneider Electric's choice as regards coordination

For applications in Spacial SFM high availability switchboard, Schneider Electric has **accepted**:

> **type 2 coordination** on grounds of:

- a low cost for repairing the equipment,
- a reduced machine shutdown time,

and **dismissed**:

> **type 1 coordination and non-coordinated feeders** because of:

- an expensive return to operation,
- a long machine shutdown time.

# Compartmentalised enclosure for Motor Control Centres

## Motor starter solutions



### 2-component motor starter

Thermomagnetic circuit-breaker + contactor

#### ■ Advantages

- Very economic solutions.
- Suitable for all types of diagrams.
- Manual reset following a thermal fault.
- Type 2 coordination.

#### ■ Applications

- Manufacturing and continuous and semi-continuous processes.



### 3-component motor starter

#### ■ Advantages

- Wide choice of solutions.
- Suitable for all types of diagrams.
- Manual or automatic reset following a thermal fault.
- 2 starting classes (10 and 20).
- Type 2 coordination.
- Segregation of thermal and magnetic faults.

#### ■ Magnetic circuit-breaker + contactor + thermal protection

- For manufacturing and continuous and semi-continuous processes.

#### ■ Switch-disconnector fuse + contactor + thermal protection

- For all types of machines.
- For manufacturing and continuous and semi-continuous processes.



# Compartmentalised enclosure for Motor Control Centres Enclosures

PB502887-70



## Presentation

The Spacial SFM compartmentalised enclosures system used for MCC are based on the Spacial SF range.

They offer the same functions:

- Different possible configurations, combined side-by-side or back-to-back.
- The built-in partial doors and panels design allow to meet the required degree of protection.

And the same advantages:

- Save time through all assembly phases.
- Enclosure robustness.

## Modularity and Versatility

They offer 36 vertical modules, each 50 mm high, of useful space.

They have 4 different enclosure dimensions and 2 additional chambers for distribution busbars or cabling management.

They can also be coupled with Spacial SFP for power distribution switchboards.

PB502885-32



## The functional system

### A metal structure

The switchboard is made up of one or more frameworks combined side-by-side or back-to-back, on which a complete selection of cover panels and partial doors can be mounted.

They are used to build IP54 according to IEC 60529 configurations and see ClimaSys offer options for ventilation.

Electrical continuity is achieved using earthing braids.

Plain partial doors are reversible for quick left or right-hand mounting by a single person, 120° opening.

The robustness of the locking system allows naturally the good alignment of the assembly. From 1 to 4 locking points system with 5 mm double-bar insert as standard supply with possibility to replace it by other shape insert.

### A distribution system

Vertical busbars positioned in a lateral compartment and horizontal busbars are used to distribute electricity throughout the switchboard.

### Complete functional units

The functional unit need to be composed by:

- motor control and protection devices,
- a dedicated plain mounting plate for device installation,
- up to form 4b thanks to the gland boxes for the terminal isolation on the back of the switchboard or on the side of the cabling chamber,
- devices for on-site connections.

The functional units are modular and designed for installation one on top of another. The system includes everything required for functional unit mounting, supply and onsite connection.

The components of the Spacial SFM compartmentalised system and those of the functional units in particular have been designed and tested taking into account device characteristics. This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.

Electrical switchboards built using Schneider Electric recommendations fully comply with international standard IEC 61439-2 and IEC 62208.

# Compartmentalised enclosure for Motor Control Centres Enclosures

## Withstand to the most demanding environments

- IP54 degree of protection for the dusty and/or damp industrial environments.
- Seismic withstand.
- Optional forced ventilation for environments with ambient temperatures hotter than 45°C or for devices with considerable heat loss (see ClimaSys offer options).

## ✓ Type tested

Spacial SFM compartmentalised is totally type-tested in accordance with IEC 61439-2.

- Certified by independent lab.
- As well as by a permanent control in Schneider Electric test laboratories.
- Type-tests are carried out:
  - temperature-rise limit,
  - dielectric properties,
  - short-circuit withstand,
  - effectiveness of the protective circuit,
  - conformity of the clearance and creepage distances,
  - mechanical operation,
  - degree of protection.

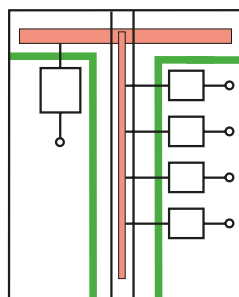
## Partitioning

Partitioning is essential to ensure the utmost protection of the installation and personnel carrying out work in the switchboard. Used in conjunction with the standard protection (terminal shields, factory-built connections), partitioning prevents any direct contact with live parts.

PB50298842

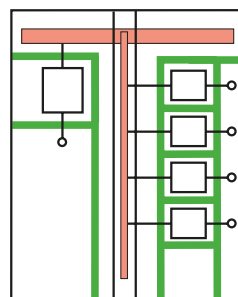


### Form 2b



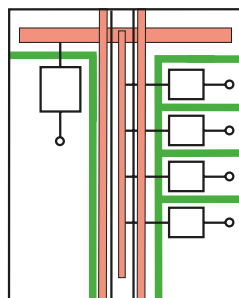
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

### Form 3b



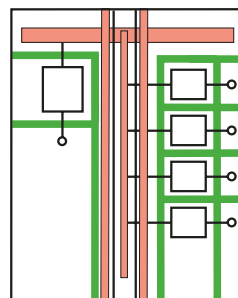
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

### Form 4a



Terminals for external conductors in the same compartment as the associated functional unit.

### Form 4b



Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

# Compartmentalised enclosure for Motor Control Centres

## Fix enclosures

PB602998-71



### General data

Applications	MCC
Standards	IEC 61439-2
Internal arc	No
Seismic	3G
Installation	Indoor

### Mechanical data

Cable inlet	Top / Bottom
Access	Front / Rear Side
IP	54
IK	10
Form	4b type 7
Withdrability	FFF
Dimensions	H 2000 / W 600 & 800 / D 600 & 800
Color	RAL 7035

### Electrical data

Insulation voltage (Ui)	1000 V
Voltage rating (Ue)	415 V
Coordination	Type 2
Frequency	50/60 Hz
Degree of pollution	3
Rated current (IP>31)	2500 A (with Copper & Linergy)
Short circuit (Icw - 1s)	85 kA

# Compartmentalised enclosure for Motor Control Centres

## Mounting plates for fixed MCC switchboards

PB502985-60



PB502990-58



PB502991-46



### Motor control functional units

The plain mounting plates can be used to install all the devices making up an MCC motor starter on a single support.

### Easy installation

Motor feeders can be prepared on a bench making the cut-outs needed. The quick-fixing system allows to hold the mounting plate during device installation and wiring. The mounting plate can be fixed on the side partitions in adjustable depth with a pitch of 50 mm.

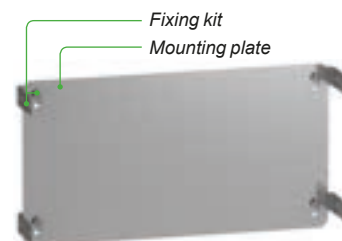
### Switchboard upgradeability

- Functional units with form partitioning 3b and 4b.
- Sides and Rear accessibility.
- Separation panels with pre-cuts for cable-glands ref. 01215.

### Functional unit reliability

- The unit of height for the mounting plates is the 50 mm module.
- 3 to 24 module (150 to 1200 mm) mounting plates are installed in 600 and 800 mm wide cubicles.
- Capacity of Spacial SFM cubicles: 36 modules (50 mm each).
- Cables are run in dedicated 300 or 400 mm wide lateral compartments.

### Plain mounting plates



Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	NSYMP3M6	NSYMPFIX
		800	NSYMP3M8	
4M	200	600	NSYMP4M6	
		800	NSYMP4M8	
5M	250	600	NSYMP5M6	
		800	NSYMP5M8	
6M	300	600	NSYMP6M6	
		800	NSYMP6M8	
8M	400	600	NSYMP8M6	
		800	NSYMP8M8	
9M	450	600	NSYMP9M6	
		800	NSYMP9M8	
12M	600	600	NSYMP12M6	
		800	NSYMP12M8	
16M	800	600	NSYMP16M6	
		800	NSYMP16M8	
18M	900	600	NSYMP18M6	
		800	NSYMP18M8	
20M	1000	600	NSYMP20M6	
		800	NSYMP20M8	
24M	1200	600	NSYMP24M6	
		800	NSYMP24M8	

# Compartmentalised enclosure for Motor Control Centres

## 2-component motor starter

Direct on line and reversing GV2, GV3 and GV7

### Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution		Mounting plate Number of modules (1M = 50 mm)	
Without limiter	With GV1L3	P max (kW)	I max (A)	Circuit breaker	Contactor (1)	DOL	Reversing
<b>GV2</b>							
85	-	0.18	0.6	GV2-P04	LC1D09	3M	3M
85	-	0.25	0.9	GV2-P05	LC1D09	3M	3M
85	-	0.37	1.1	GV2-P06	LC1D09	3M	3M
85	-	0.55	1.5	GV2-P06	LC1D09	3M	3M
85	-	0.75	1.8	GV2-P07	LC1D09	3M	3M
85	-	1.1	2.6	GV2-P08	LC1D09	3M	3M
85	-	1.5	3.4	GV2-P08	LC1D09	3M	3M
85	-	2.2	4.8	GV2-P10	LC1D09	3M	3M
85	-	3	6.5	GV2-P14	LC1D09	3M	3M
85	-	4	8.2	GV2-P14	LC1D18	3M	3M
50	85	5.5	11	GV2-P16	LC1D25	3M	3M
50	85	7.5	14	GV2-P20	LC1D25	3M	3M
50	85	10	19	GV2-P21	LC1D32	3M	3M
50	85	11	21	GV2-P22	LC1D32	3M	3M
50	85	15	28	GV2-P32	LC1D32	3M	3M
50	-	18.5	34	GV3-P40	LC1D50A	3M	4M
50	-	22	40	GV3-P50	LC1D50A	3M	4M
50	-	30	55	GV3-P65	LC1D65	3M	4M
70	-	15	28	GV7-RS40	LC1D40	3M	6M
70	-	18.5	34	GV7-RS40	LC1D50	3M	6M
70	-	22	40	GV7-RS50	LC1D80	3M	6M
70	-	30	55	GV7-RS80	LC1D80	3M	6M
70	-	37	66	GV7-RS80	LC1D80	3M	6M
70	-	45	80	GV7-RS100	LC1D115	4M	9M
70	-	55	100	GV7-RS150	LC1D150	6M	9M
70	-	75	135	GV7-RS150	LC1F185	9M	12M
70	-	90	160	GV7-RS220	LC1F225	9M	12M
70	-	110	200	GV7-RS220	LC1F265	9M	12M

(1) 2xLC1-D for reversing

### Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	NSYMP3M6	NSYMPFIX
		800	NSYMP3M8	
4M	200	600	NSYMP4M6	
		800	NSYMP4M8	
6M	300	600	NSYMP6M6	
		800	NSYMP6M8	
9M	450	600	NSYMP9M6	
		800	NSYMP9M8	
12M	600	600	NSYMP12M6	
		800	NSYMP12M8	

# Compartmentalised enclosure for Motor Control Centres

## 3-component motor starter

### Direct on line and reversing GV2 and GV3

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

#### Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)	
Without limiter	With LA9LB920	P max (kW)	I max (A)	Circuit breaker	Contactore (1)	Thermal relay	DOL	Reversing
85	-	0.18	0.6	GV2-L04	LC1D09	LRD04	3M	3M
85	-	0.25	0.9	GV2-L05	LC1D09	LRD05	3M	3M
85	-	0.37	1.1	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.55	1.5	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.75	1.8	GV2-L07	LC1D09	LRD07	3M	3M
85	-	1.1	2.6	GV2-L08	LC1D09	LRD08	3M	3M
85	-	1.5	3.4	GV2-L08	LC1D09	LRD08	3M	3M
85	-	2.2	4.8	GV2-L10	LC1D09	LRD10	3M	3M
85	-	3	6.5	GV2-L14	LC1D09	LRD12	3M	3M
85	-	4	8.2	GV2-L14	LC1D18	LRD14	3M	3M
50	85	5.5	11	GV2-L16	LC1D25	LRD16	3M	3M
50	85	7.5	14	GV2-L20	LC1D25	LRD21	3M	3M
50	85	10	19	GV2-L21	LC1D32	LRD22	3M	3M
50	85	11	21	GV2-L22	LC1D32	LRD22	3M	3M
50	85	13	24	GV2-L32	LC1D32	LRD32	3M	3M
50	-	18.5	34	GV3-L40	LC1D50A	LRD340	3M	4M
50	-	22	40	GV3-L50	LC1D50A	LRD350	3M	4M
50	-	26	49	GV3-L65	LC1D65A	LRD365	3M	4M

(1) 2xLC1-D for reversing.

#### Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	NSYMP3M6	NSYMPFIX
		800	NSYMP3M8	
4M	200	600	NSYMP4M6	
		800	NSYMP4M8	

# Compartmentalised enclosure for Motor Control Centres

## 3-component motor starter

Direct on line and reversing NS80H and NSX

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

### Selection of recommended combinations

Iq (kA)	Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)	
	P max (kW)	I max (A)	Circuit breaker	Contacteur (1)	Thermal relay	DOL	Reversing
70	18.5	34	NS80H-MA	LC1D50	LRD3355	3M	6M
70	22	40	NS80H-MA	LC1D50	LRD3357	3M	6M
70	30	55	NS80H-MA	LC1D65	LRD3359	3M	6M
70	37	66	NS80H-MA	LC1D80	LRD3363	3M	6M
(2)	18.5	34	NSX100• MA	LC1D80	LRD3355	3M	6M
(2)	22	40	NSX100• MA	LC1D80	LRD3357	3M	6M
(2)	30	55	NSX100• MA	LC1D80	LRD3359	3M	6M
(2)	37	64	NSX100• MA	LC1D80	LRD3363	3M	6M
(2)	45	80	NSX100• MA	LC1D115	LR9D5367	6M	9M
(2)	55	100	NSX160• MA	LC1D150	LR9D5369	6M	9M
(2)	75	135	NSX160• MA	LC1F185	LR9F5369	9M	12M
(2)	90	160	NSX250• MA	LC1F225	LR9F5371	9M	12M
(2)	100	187	NSX250• MA	LC1F265	LR9F5371	9M	12M
(2)	132	230	NSX400• 1.3-M	LC1F330	LR9F7375	12M	16M
(2)	160	270	NSX400• 1.3-M	LC1F330	LR9F7375	12M	16M
(2)	200	361	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M
(2)	220	380	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M
(2)	250	430	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M

(1) 2xLC1-D for reversing

(2) NSX...F = 36 kA

NSX...N = 50 kA

NSX...H = 70 kA

NSX...S = 85 kA

NSX400L = 150 kA

NSX630L = 150 kA

### Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	NSYMP3M6	NSYMPFIX
		800	NSYMP3M8	
6M	300	600	NSYMP6M6	
		800	NSYMP6M8	
9M	450	600	NSYMP9M6	
		800	NSYMP9M8	
12M	600	600	NSYMP12M6	
		800	NSYMP12M8	
16M	800	600	NSYMP16M6	
		800	NSYMP16M8	

# Compartmentalised enclosure for Motor Control Centres

2-component motor starter  
Star-delta GV2, GV3 and GV7

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

## Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution		Mounting plate Number of modules (1M = 50 mm)
Without limiter	With GV1L3	P max (kW)	I max (A)	Circuit breaker	Contactors	Star-delta
85	-	0.37	1.1	GV2-P06	3xLC1D09	4M
85	-	0.55	1.5	GV2-P06	3xLC1D09	4M
85	-	0.75	1.8	GV2-P07	3xLC1D09	4M
85	-	1.1	2.6	GV2-P08	3xLC1D09	4M
85	-	1.5	3.4	GV2-P08	3xLC1D09	3M
85	-	2.2	4.8	GV2-P10	3xLC1D18	4M
85	-	3	6.5	GV2-P14	3xLC1D18	3M
85	-	4	8.2	GV2-P14	3xLC1D18	4M
50	85	5.5	11	GV2-P16	3xLC1D25	4M
50	85	7.5	14	GV2-P20	3xLC1D25	4M
50	85	10	19	GV2-P21	3xLC1D32	5M
50	85	11	21	GV2-P22	3xLC1D32	4M
35	85	15	28	GV2-P32	3xLC1D32	4M
50	-	18.5	34	GV3-P40	3xLC1D50A	5M
50	-	22	40	GV3-P50	3xLC1D50A	5M
50	-	30	55	GV3-P65	3xLC1D65A	5M
70	-	15	28	GV7-RS40	3xLC1D80	9M
70	-	18.5	34	GV7-RS40	3xLC1D50	9M
70	-	22	40	GV7-RS50	3xLC1D80	9M
70	-	30	55	GV7-RS80	3xLC1D80	9M
70	-	45	80	GV7-RS100	3xLC1D115	12M
70	-	55	100	GV7-RS150	3xLC1D150	12M
70	-	75	135	GV7-RS150	3xLC1F185	16M
70	-	90	160	GV7-RS220	3xLC1F225	16M
70	-	110	200	GV7-RS220	3xLC1F265	16M

## Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	NSYMP3M6	NSYMPFIX
		800	NSYMP3M8	
4M	200	600	NSYMP4M6	
		800	NSYMP4M8	
5M	250	600	NSYMP5M6	
		800	NSYMP5M8	
9M	450	600	NSYMP9M6	
		800	NSYMP9M8	
12M	600	600	NSYMP12M6	
		800	NSYMP12M8	
16M	800	600	NSYMP16M6	
		800	NSYMP16M8	



# Compartmentalised enclosure for Motor Control Centres

## 3-component motor starter Star-delta GV2 and GV3

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

### Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)
Without limiter	With LA9LB920	P max (kW)	I max (A)	Circuit breaker	Contactora	Thermal relay	Star-delta
85	-	0.37	1.1	GV2-L06	3xLC1D09	LRD06	4M
85	-	0.55	1.5	GV2-L06	3xLC1D09	LRD06	4M
85	-	0.75	1.8	GV2-L07	3xLC1D09	LRD07	4M
85	-	1.1	2.6	GV2-L08	3xLC1D09	LRD08	4M
85	-	1.5	3.4	GV2-L08	3xLC1D09	LRD08	4M
85	-	2.2	4.8	GV2-L10	3xLC1D18	LRD10	4M
85	-	3	6.5	GV2-L14	3xLC1D18	LRD12	4M
85	-	4	8.2	GV2-L14	3xLC1D18	LRD14	4M
50	85	5.5	11	GV2-L16	3xLC1D25	LRD16	4M
50	85	7.5	14	GV2-L20	3xLC1D25	LRD21	4M
50	85	10	19	GV2-L21	3xLC1D32	LRD22	4M
50	85	11	21	GV2-L22	3xLC1D32	LRD22	4M
35	85	15	24	GV2-L32	3xLC1D32	LRD32	4M
50	-	18.5	34	GV3-L40	3xLC1D50A	LRD340	5M
50	-	22	40	GV3-L50	3xLC1D50A	LRD350	5M
50	-	30	49	GV3-L65	3xLC1D65A	LRD365	5M

### Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
4M	200	600	NSYMP4M6	NSYMPFIX
		800	NSYMP4M8	
5M	250	600	NSYMP5M6	
		800	NSYMP5M8	

# Compartmentalised enclosure for Motor Control Centres

## 3-component motor starter Star-delta NS80H and NSX

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

### Selection of recommended combinations

Iq (kA)	Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)
	P max (kW)	I max (A)	Circuit breaker	Contactors	Thermal relay	Star-delta
70	18.5	34	NS80H-MA	3xLC1D50	LRD3355	9M
70	22	40	NS80H-MA	3xLC1D50	LRD3357	9M
70	30	55	NS80H-MA	3xLC1D65	LRD3359	9M
70	37	66	NS80H-MA	3xLC1D80	LRD3363	9M
(1)	18.5	34	NSX100• MA	3xLC1D80	LRD3355	9M
(1)	22	40	NSX100• MA	3xLC1D80	LRD3357	9M
(1)	30	55	NSX100• MA	3xLC1D80	LRD3359	9M
(1)	37	64	NSX100• MA	3xLC1D80	LRD3363	9M
(1)	45	80	NSX100• MA	3xLC1D115	LR9D5367	12M
(1)	55	100	NSX160• MA	3xLC1D150	LR9D5369	12M
(1)	75	135	NSX160• MA	3xLC1F185	LR9F5369	16M
(1)	90	160	NSX250• MA	3xLC1F225	LR9F5371	16M
(1)	110	187	NSX250• MA	3xLC1F265	LR9F5371	16M
(1)	132	230	NSX400• 1.3-M	3xLC1F330	LR9F7375	20M
(1)	160	270	NSX400• 1.3-M	3xLC1F330	LR9F7375	20M
(1)	200	361	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M
(1)	220	380	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M
(1)	250	430	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M

(1) NSX...F = 36 kA  
 NSX...N = 50 kA  
 NSX...H = 70 kA  
 NSX...S = 85 kA  
 NSX400L = 150 kA  
 NSX630L = 150 kA

### Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
9M	450	600	NSYMP9M6	NSYMPFIX
		800	NSYMP9M8	
12M	600	600	NSYMP12M6	
		800	NSYMP12M8	
16M	800	600	NSYMP16M6	
		800	NSYMP16M8	
20M	1000	600	NSYMP20M6	
		800	NSYMP20M8	
24M	1200	600	NSYMP24M6	
		800	NSYMP24M8	

# Compartmentalised enclosure for Motor Control Centres

Linery distribution systems

# Linery LGYE-LGY

a breakthrough in busbar systems

**Safe, reliable,  
flexible, and  
flexible with  
the highest  
level of  
performance**

The Linery LGYE-LGY busbar system now includes horizontal busbars, for greater electrical switchboard enclosure performance, reliability, and costeffectiveness.

Manufactured using a revolutionary process, patented Linery busbars are unique on the market, taking your electrical switchboard installations a giant leap into the future.



Discover how Linery LGYE-LGY can place the next generation of low-voltage switchboards in your hands.



# Compartmentalised enclosure for Motor Control Centres

Lineryy distribution systems

## Innovative technology from an energy expert you can trust

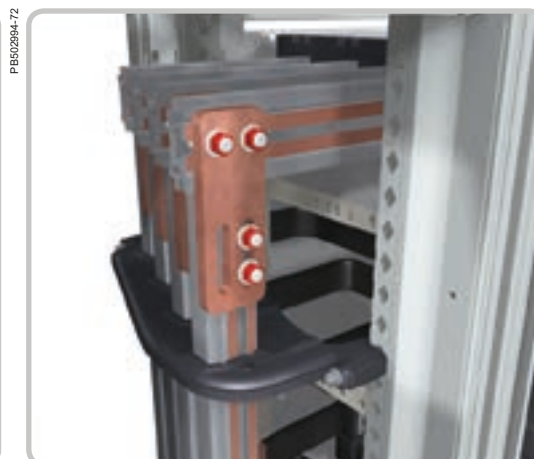
Patented Lineryy LGYE-LGY is backed by Schneider Electric's decades of expertise in electrical distribution systems and is certified IEC 61439-2 compliant by ASEFA.

**Lineryy unique profile** was designed with the ratings you need, a commitment to performance backed by regular testing up to 4000 A.

**Heat is dissipated by conduction** and radiation for performance only a market leader can bring you.

**Lineryy LGYE-LGY busbars performances** are identical or better than traditional all Lineryy BS busbars.

**Unlike tin-plated aluminum busbars**, rugged Lineryy LGYE-LGY busbars are resistant to scratching during assembly to ensure optimal connection quality and reliability.



### High Velocity Oxy-Fuel, unique on the busbar market

Patented Lineryy LGYE-LGY uses a supersonic high-temperature coating process for a robust copper contact surface.

# Compartmentalised enclosure for Motor Control Centres

## Linery distribution systems

# A revolutionary design for greater efficiency

The Linery line now includes horizontal busbars, helping you achieve better electrical switchboard performance while optimizing busbar layout and facilitating assembly.

Schneider Electric™ has drawn upon 30 years of expertise in electrical distribution systems and a decade of hands-on experience with the proven and reliable Linery line of products. It brings you a revolutionary design featuring a high-quality copper contact surface that delivers even better results than traditional Linery BS-to-Linery BS connections.

Linery LGYE-LGY busbars offer a number of benefits to help you enhance performance and boost your competitiveness.

### Lightweight

Linery is half the weight of equivalent-rated Linery BS bars for more fuel-efficient transport, easier handling, and smoother installation.

### Higher-capacity

A single Linery LGYE bar can withstand ratings up to 2500 A. It would take two or three Linery BS bars per pole to achieve similar ratings.

### Robust and flexible

Linery LGYE bars are extruded for a unique profile that includes both closed and ribbed sections, improving rigidity, thermal dissipation, and resistance to short circuits, with a shortcircuit withstand capacity (Icw) of 85 kA/1s for SFM and 100 kA / 1s for Spacial SFP.

### Attractive

The revolutionary copper contact strips, anodized aluminum surface, and unique shapes give a modern appearance and a soft touch.

### IEC standards-compliant

The latest standards were factored in from the early design stages to ensure that temperatures are kept below the IEC61439-2 standard requirements, for optimal performance regardless of the switchboard configuration.

### Environmentally-friendly

Instead of increasingly-scarce copper, Linery LGYE is made from 70% recycled raw materials offering the same performance as primary raw materials.

### Cost-effective

Linery LGYE-LGY helps you achieve cost savings now and provides protection against fluctuating copper prices in the future, plus all the advantages of a raw material that is easy to purchase and store.



Linery LGYE is **50% lighter** than Linery BS

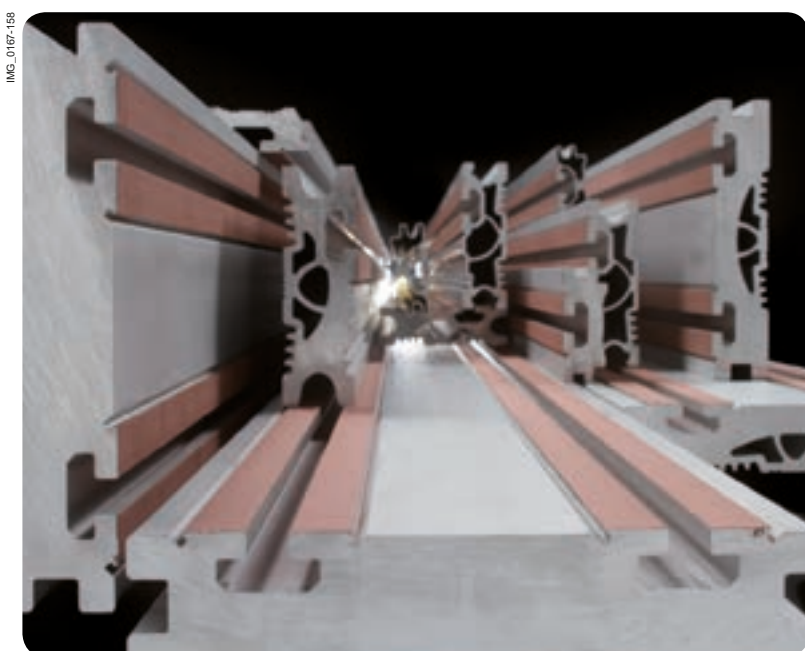
Reduce **Costs and assembly times** over Linery BS busbars

# Compartmentalised enclosure for Motor Control Centres

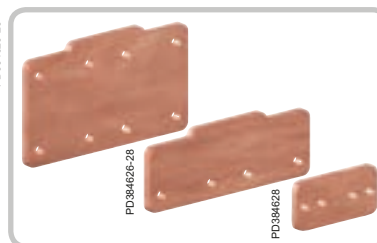
## Linery distribution systems

# Linery accessories are also evolving!

Linery LGYE is a full-featured busbar system that includes all the connections, screws, bolts, isolating supports, and other accessories you need for drill-free assembly.



IMG\_01167-158



## Panel builders, we've thought of everything to make your life easier!



IMG\_9957-48

- Linery LGYE-LGY busbars are lightweight, making them easy to transport and handle in the workshop.
- With Linery LGYE-LGY, you can continue to use the familiar Spacial SFP busbar supports you already know for Linery BS bars. There's no new system to learn.
- Linery LGYE-LGY offers single bars for each rating, making handling during installation faster and more convenient.
- Linery LGYE-LGY bars are fast and easy to position without drilling, thanks to a sliding bolt and track system.
- Linery screws let you add extra outgoing connections without drilling new holes or dismantling previous connections or busbar supports, saving you time and giving you greater flexibility in the event of last-minute changes.
- Linery LGYE-LGY busbars offer a unique shape with no sharp edges for safer, smoother handling and installation the bars simply slide right in to the busbar supports.
- Existing Linery LGY vertical busbars are easy to connect to Linery LGYE with ready-to-install accessories like vertical connectors.
- Linery materials are easy to recycle via well-established aluminum recycling services already in use for materials like aluminum cans, coffee capsules, door and window frames, and engine blocks.

# Compartmentalised enclosure for Motor Control Centres

Lineryy distribution systems

Lineryy also offers the most **advanced busbar solutions** while remaining **simple**.

PBS02895-140



## Lineryy LGYE / LGY / BS

Power busbars

- > Solutions available up to 2500 A for Spacial SFM up to 4 000 A for Spacial SFP.
- > Connection everywhere without drilling (with LGY and LGYE profile).

# Compartmentalised enclosure for Motor Control Centres

## Linery distribution systems

### Lateral Linery busbars up to 1600 A

### Busbar calculation

The following table indicates:

- the catalogue numbers of the bars to be used, depending on the permissible current level in the busbars,
- the number of supports required, depending on the rated short-time withstand current ( $I_{cw}$  in kA rms / 1 second).

Linery busbars	Cat. no.	Permissible current at 35 °C for switchboard		No. of supports $I_{cw}$ (kA effrms / 1 s)								
		IP ≤ 31	IP > 31	≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85	
Linery 630	<b>04502</b>	680	590									
Linery 800	<b>04503</b>	840	760									
Linery 1000	<b>04504</b>	1040	950		3							
Linery 1250	<b>04505</b>	1290	1170				4	5				
Linery 1600	<b>04506</b>	1650	1480							7	8	

Note: the permissible current values for the busbars are given for an ambient temperature of 35°C around the switchboard.

The bottom support also maintains the bars in position.

Each catalogue number represents one bar.

### Busbar selection

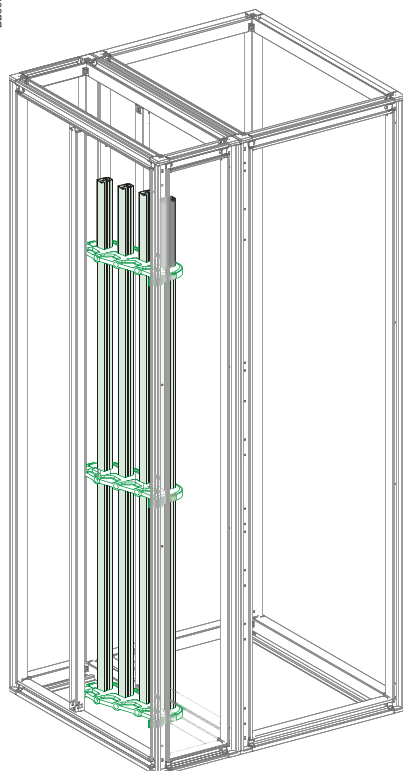
Linery busbars, L = 1670 mm

Cat. no. selection

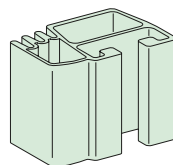
See the table below.

Each bar is supplied with a stop for the bottom support.

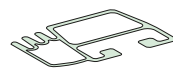
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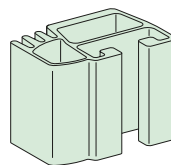
DD384147b



Bar 630 A.  
Cat. no. 04502



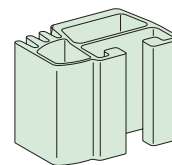
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Bar 800 A.  
Cat. no. 04503



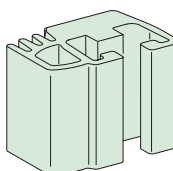
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Bar 1000 A.  
Cat. no. 04504



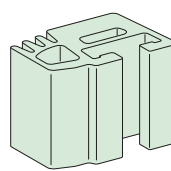
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Bar 1250 A.  
Cat. no. 04505



DD384151b



Bar 1600 A.  
Cat. no. 04506








**Busbars up to 1600 A.**  
The bottom support is used in wedging busbars in position.

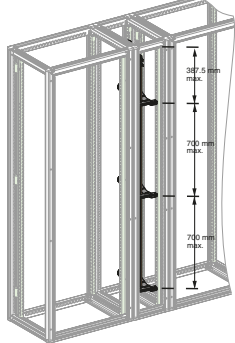


# Compartmentalised enclosure for Motor Control Centres

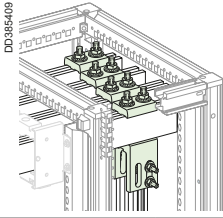
Linery distribution systems

Linery LGY - Lateral profiles up to 1600 A

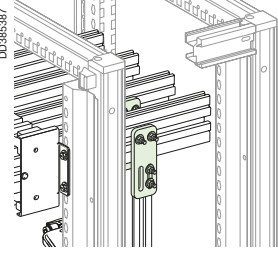
Linery LGY profiles		Up to 1600 A (single busbar)				
In Spacial SF busbar chamber		W300				
Linery profile, 1670 mm length						
Permissible current for an ambient temp. of 35°C around the switchboard		630 A	800 A	1000 A	1250 A	1600 A
IP y 31		680 A	840 A	1040 A	1290 A	1650 A
IP > 31		590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		04502	04503	04504	04505	04506

Busbar supports		Description				
	Description		The bottom wedge support is used to place the busbar and ensure it is in the correct position. It is count as a busbar support (included in the number of supports).			
	Characteristics		Fixed support <b>04651</b>			
Number of supports depending on lcv (kA rms/1 s)		y 25	3			
		y 30	-		3	
		y 40	-		3	
		y 50	-		4	
		y 60	-		5	
		y 65	-		5	
		y 75	-		7	
		y 85	-		8	
Cat. no.		<b>04651</b> (set of 2 upright adapters <b>NSYSFPA</b> and set of 2 40 mm universal cross-rail <b>NSYSUCR40200</b> for installation in Spacial SF busbar chamber)				

### Connections to the Linery BS horizontal busbar

			
Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no according to horizontal busbar size	5 mm thick	04634	04635
	10 mm thick Width y 80 mm	04636	

### Connections to the Linery LGYE horizontal busbar

			
y 1600 A			
Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no.		<b>04602</b> (vertical connection) <b>04603</b> (vertical shifted connection)	

# Compartmentalised enclosure for Motor Control Centres

## Linery distribution systems

### Linery LGYE - Horizontal profiles up to 2500 A

Linery LGYE profiles								
Installation in Spacial SFM compartmentalised		Up to 1600 A					Up to 2500 A	
Linery profile, 2000 mm length								
		<b>630 A</b>	<b>800 A</b>	<b>1000 A</b>	<b>1250 A</b>	<b>1600 A</b>	<b>2000 A</b>	<b>2500 A</b>
Permissible current for an ambient temp. of 35°C around the switchboard		530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A
Number of profiles per phase		1					3	
Total number of vertical modules (50 mm)		3					3	
<b>Cat. no.</b>		<b>04560</b>	<b>04561</b>	<b>04562</b>	<b>04563</b>	<b>04564</b>	<b>04565</b>	<b>04566</b>
Busbar supports								
		Fixed support		Free support				
Characteristics		2 fixed supports for Spacial SF wide cubicle are compulsory according compartment depth (400 or 500 mm). 1 fixed support for Spacial SF 300/400 wide chamber are compulsory. Fixed directly on framework. If more supports are needed, add free supports.						
In cubicle SFM: W600/800 Busbar supports 75 mm distance between bars	Number of supports depending on l <sub>cw</sub> (kA rms/1 s)	y 15	2					
	y 25	2						
	y 30	2						
	y 40	-		2				
	y 50	-		2				
	y 60	-		2+1		2		
	y 65	-		-		2+1		
	y 75	-		-		2+1		
y 85	-		-		2+1			
<b>Cat. no.</b>	Fixed support	D400	<b>NSYBHS4</b>					
		D500	<b>NSYBHS5</b>					
	Free support	<b>NSYBSA</b>						
In busbar chamber SF: W300/400 Busbar supports 75 mm distance between bars	Number of supports depending on l <sub>cw</sub> (kA rms/1 s)	y 15	1					
	y 25	1						
	y 30	1						
	y 40	-		1				
	y 50	-		1				
	y 60	-		1				
	y 65	-		-		1 + 1		
	y 75	-		-		1 + 1		
y 85	-		-		1 + 1			
<b>Cat. no.</b>	Fixed support	D600	<b>NSYBHS600</b>				<b>NSYBHS600</b>	
		D800	<b>NSYBHS800</b>				<b>NSYBHS800</b>	
	Free support	<b>NSYBSA</b>					<b>NSYBSA</b>	
Joints								
		Up to 1600 A					Up to 2500 A	
		<b>630 A</b>	<b>800 A</b>	<b>1000 A</b>	<b>1250 A</b>	<b>1600 A</b>	<b>2000 A</b>	<b>2500 A</b>
		<b>04620</b>					<b>04621</b>	
<b>Cat. no.</b>		3 x <b>04620</b> (3P) 4 x <b>04620</b> (4P)					3 x <b>04621</b> (3P) 4 x <b>04621</b> (4P)	

Note: for accessories, see page 365.

# Compartmentalised enclosure for Motor Control Centres

## Linery distribution systems

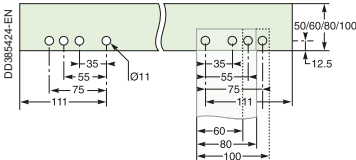
### Linery BS - Lateral flat busbars up to 2500 A

Flat busbars		Up to 1600 A				Up to 2500 A					
In Spacial SF busbar chamber		W300 D500/600/800				W300 D500/600/800					
Pre-slotted copper, 1675 mm length											
Permissible current for an ambient temp. of 35°C around the switchboard	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2		1		2			
Cat. no.		<b>04516</b>	<b>04518</b>	<b>04516</b>	<b>04518</b>	<b>04525</b>	<b>04526</b>	<b>04528</b>	<b>04525</b>	<b>04526</b>	<b>04528</b>

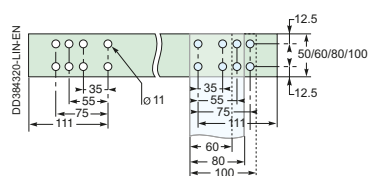
Busbar supports		Description	
	Number of supports	y 15	3
	depending on Icw (kA rms/1 s)	y 25	3+2
		y 30	3
		y 40	3+2
		y 50	3+4
		y 60	3+4
		y 65	3+4
		y 75	3+6
	y 85	3+4	
Cat. no. of supports depending on distance between bars and busbar chamber depth	Spacial SF busbar chamber	W300, D600	<b>NSYBVS600 (fixed) + NSYBSA (free) + NSYAS600 (end stop support)</b>
	W300, D800	<b>NSYBVS800 (fixed) + NSYBSA (free) + NSYAS800 (end stop support)</b>	

Connections to the Linery BS horizontal busbar	
Characteristics	For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances. <sup>(1)</sup>
	References <b>04636</b> , <b>04637</b> are supplied individually: 1 connection per phase. Reference <b>04642</b> consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.
	1 vertical bar per phase
	2 vertical bars per phase
	1 vertical bar per phase
	2 vertical bars per phase
	60 x 5
	80 x 5
	60 x 5
	80 x 5
	50 x 10
	60 x 10
	80 x 10
	50 x 10
	60 x 10
	80 x 10
Cat. no. of the connection piece depending on horizontal busbar size	≤ 80 mm
	<b>04645</b>
	<b>04636</b>
	<b>04637</b>
	<b>04637</b>

(1) Drill hole dimensions for 5 mm thick horizontal busbars.



Drill hole dimensions for 10 mm thick horizontal busbars.



# Compartmentalised enclosure for Motor Control Centres

## Linergy distribution systems

### Linergy BS - Horizontal flat busbars up to 2500 A

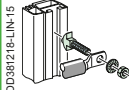
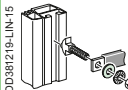
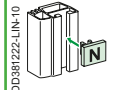
Flat busbars								
Installation in Spacial SFM compartmentalised	Hasta 1600 A				Hasta 2500 A			
Copper bar, 2000 mm length								
Permissible current for an ambient temp. of 35°C around the switchboard	750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase	1	1	2	2	1	2	2	2
Total number of vertical modules (50 mm)	3							
N° cat.	04536	04538	04536	04538	04548	04545	04546	04548
Busbar supports								
	 Fixed support	 Free support						
			In cubicle SFM: W600/800 with 75 mm distance between bars Characteristics					
Number of supports		y 15	2					
depending on l <sub>cw</sub> (kA rms/1 s)		y 25	2+1	2				
		y 30	2+1	2				
		y 40	2+1		2			
		y 50	-	2+1			2	
		y 60	-		2+1			
		y 65	-		2+1			
		y 75	-		2+2	2+1		
		y 85	-		-		2+1	
Cat. no.		Fixed support	NSYMBHS4 (D400) or NSYMBHS5 (D500)					
		Free support	NSYBSA					
In busbar chamber SF: W300/400 with 75 mm distance between bars	Number of supports		y 30	1				
	depending on l <sub>cw</sub> (kA rms/1 s)		y 50	1+1		1		
		y 85	-		2			
Cat. no. depending on depth		Fixed support	NSYBHS600 (D600) or NSYBHS800 (D800)			NSYBHS600 (D600) or NSYBHS800 (D800)		
		Free support	NSYBSA			NSYBSA		
Joints								
Installation in Spacial SFP	Up to 1600 A				Up to 2500 A			
	1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase		2 vertical bars per phase	
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Sliding joints with self-breaking lock nut	04640				04641			
		Note: When installed at the bottom of a cubicle, the busbar must be partitioned.						
Cat. no.	04640	04641	04640	04641	04641	04640	04640	04641

Note: When installed at the bottom of a cubicle, the busbar must be partitioned.

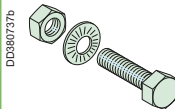
# Compartmentalised enclosure for Motor Control Centres

## Lineryg distribution systems Accessories


### Accessories

		 DD381218-LIN-15 Lineryg screw	 DD381219-LIN-15 Plain washer	 DD381222-LIN-10 Identification
Lineryg screw	Characteristics	Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.		
	<b>Cat. no.</b>	25 mm length 39 mm length	see the table "Connections on Lineryg LGYE & LGY" below	
Steel plain washers	Characteristics	M8 sold in lots of 20.		
	<b>Cat. no.</b>	ext. Ø20 mm ext. Ø24 mm ext. Ø28 mm	<b>04772</b> <b>04773</b> <b>04774</b>	
	Characteristics	M8 sold in lots of 20 for connection of $\gamma$ 25 mm <sup>2</sup> lugs to Lineryg.		
Brass plain washers	Characteristics	M8 sold in lots of 20 for connection of $\gamma$ 25 mm <sup>2</sup> lugs to Lineryg.		
	<b>Cat. no.</b>	ext. Ø20 mm	<b>04775</b>	
	Characteristics	12 clip-on supports + N, L1, L2, L3, PE, PEN labels.		
Identification	Characteristics	12 clip-on supports + N, L1, L2, L3, PE, PEN labels.		
	<b>Cat. no.</b>	<b>04794</b>		
	Characteristics	Lineryg LGYE busbar screw plate kit after sales service.		
	<b>Cat. no.</b>	<b>01130</b>		

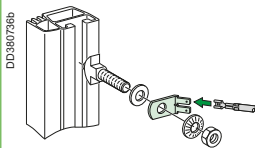
### M8 bolts

		 DD380737b	
Lineryg BS, 20 bolts 8.8 class	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers.	
	<b>Cat. no.</b>	M8 x 20 M8 x 25 M8 x 30 M8 x 35 M8 x 40 M8 x 45 M8 x 50	<b>04782</b> <b>04783</b> <b>04784</b> <b>04785</b> <b>04786</b> <b>04787</b> <b>04788</b>




### Torque nuts

		 DD380735b
20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	<b>Cat. no.</b>	<b>04759</b>

### Voltage tap-offs

		 DD380736b
20 M10 voltage tap-offs for two 6.35 mm tab connectors	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. 04775) between the busbar and the lug.
	<b>Cat. no.</b>	<b>04229</b>

## ★ Connections on Lineryg LGYE & LGY

InA (A)		Connection on Lineryg	Utilisation	Cat no.	
0 to 630	Cable Insulated flexible bar	Use the 25 mm Lineryg screw	Recommended	<b>04766</b>	
		Use the 39 mm Lineryg screw	Possible	<b>04767</b> <sup>(1)</sup>	
800 to 1250	5 mm thick bar	Use the 25 mm Lineryg screw	Recommended	<b>04766</b>	
		Use the 39 mm Lineryg screw	Possible	<b>04767</b> <sup>(1)</sup>	
		Use the flat plate screw with 2 studs	Possible	<b>04768</b>	
1600 to 2500	5 or 10 mm thick bar	Use the flat plate screw with 2 studs	Recommended	<b>04768</b>	
		Use the 39 mm Lineryg screw	Possible	<b>04767</b> <sup>(1)</sup>	

(1) **04767** is only compatible with Lineryg LGY.

# Compartmentalised enclosure for Motor Control Centres

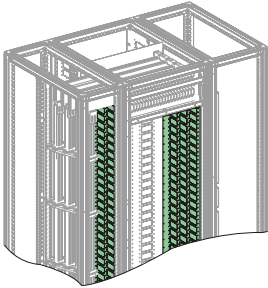
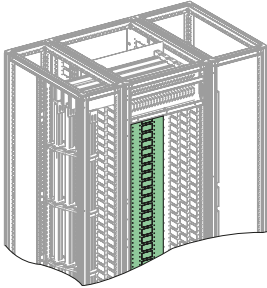
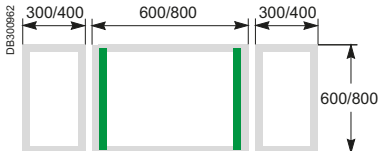
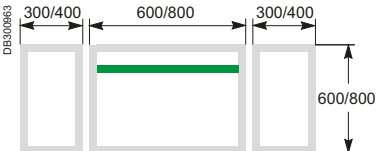
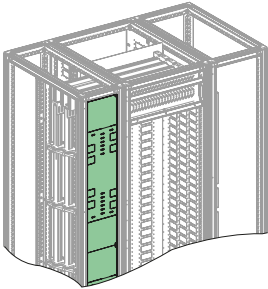
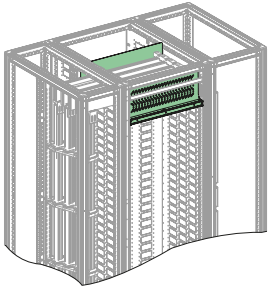
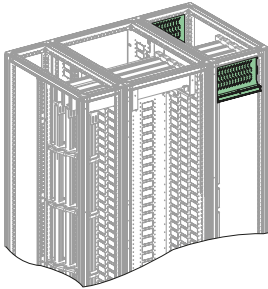
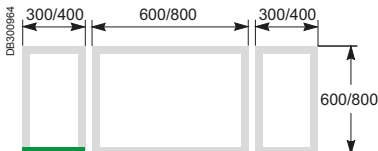
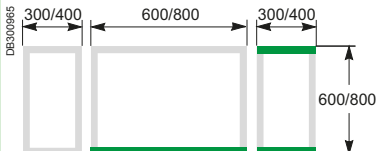
## Partitioning Form 2

### Partitioning Form 2

Separation of busbars from the functional units:

- protection against contact with live parts upstream of the outgoing circuits,
- protection against penetration of foreign solid bodies.

#### Form 2 partitioning

	Lateral partitioning	Rear partitioning	
			
Diagramas			
Características	<ul style="list-style-type: none"> <li>■ Set of 2 vertical metallic separation which guarantees good insulation of the sides of the compartment (IP2x).</li> <li>■ Top and bottom ends have knock-outs for installation of horizontal busbars and pre-cuts of 40 x 70 mm for cable-glands using grommets ref <b>01215</b> when Form 4b is required.</li> <li>■ Partition extension required for D800 mm.</li> <li>■ Direct fixing on structure of enclosure.</li> </ul>	<ul style="list-style-type: none"> <li>■ Vertical metallic separation which guarantee good insulation of the back of the compartment (IP2x).</li> <li>■ Pre-cuts of 40 x 70 mm for cable-glands using grommets ref <b>01215</b> when Form 4b is required on back installation.</li> <li>■ Direct fixing on structure of enclosure.</li> </ul>	
N° cat.	D600: <b>NSYMSC206</b> D800: <b>NSYMSC206 + NSYMSC202 + NSYSUCR40200</b>	W600: <b>NSYMBC206</b> W800: <b>NSYMBC208</b>	
	Front and Rear busbar barrier	Horizontal busbar barriers	
			
Diagramas			
Características	<ul style="list-style-type: none"> <li>■ Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends</li> <li>■ Rear protection is realized by the association of the back panel of the enclosure.</li> </ul>	<p>W600   W800</p> <ul style="list-style-type: none"> <li>■ Horizontal protection by the association of slotted front barrier and horizontal partition for efficient natural convection in the switchboard.</li> <li>■ The set can be used to partition horizontal busbar at the top or bottom of the cubicle.</li> <li>■ The space required for the busbars is not increased.</li> </ul>	<p>W300   W400</p> <ul style="list-style-type: none"> <li>■ Set of 2 slotted barriers (front &amp; rear), plus horizontal panel to be used when busbars cross the cable chamber.</li> </ul>
N° cat.	W300: <b>06540</b> W400: <b>NSYVPF2B4</b>	D600 <sup>(1)</sup> : <b>NSYHPF2B3M64</b> D800 <sup>(1)</sup> : <b>NSYHPF2B3M65</b>	D600 <sup>(1)</sup> : <b>NSYHPF2B3M84</b> D800 <sup>(1)</sup> : <b>NSYHPF2B3M85</b>


**Note:** when the busbars are at the bottom of the cubicle, gland plates are mandatory.

<sup>(1)</sup> For an enclosure with depth of 600 mm the compartment depth is 400 mm.  
For an enclosure with depth of 800 mm the compartment depth is 500 mm.

# Compartmentalised enclosure for Motor Control Centres

## Partitioning Form 3

### Accessories for partitioning Form 2 & 3

External claddings	
	Intermediate Crossbar
	
Characteristics	<ul style="list-style-type: none"> <li>■ It is mounted between partial doors, guaranteeing good sealing.</li> <li>■ To be used in the absence of the partition tray.</li> <li>■ Direct fixing to the structure.</li> <li>■ Available in 2 widths (mm).</li> </ul>
Supply	2 crossbars with fixing elements
N° cat.	W600: <b>NSYMIC6</b> W800: <b>NSYMIC8</b>

## Partitioning Form 3

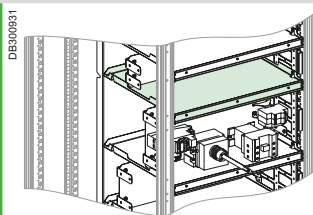
Separation of busbars from the functional units and separation of all functional units from one another.

Separation of the terminals for external conductors from the functional units, but not from each other.

- protection against contact with live parts
- reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

### Form 3 partitioning

#### Horizontal partitioning



	W600	W800
Characteristics	<ul style="list-style-type: none"> <li>■ A horizontal metal partition to separate functional units from one another and guarantees insulation of the compartments (IP2x).</li> <li>■ It is fixed to the front uprights of the enclosure and the side partitions.</li> <li>■ Quick fixing system with intermediate crossbar to ensure the degree of protection of the partial doors.</li> <li>■ Order by multiples of 2 (2, 4, 6...).</li> </ul>	
Cat. no.	D600 <sup>(1)</sup> : <b>NSYMTR64</b> D800 <sup>(1)</sup> : <b>NSYMTR65</b>	D600 <sup>(1)</sup> : <b>NSYMTR84</b> D800 <sup>(1)</sup> : <b>NSYMTR85</b>

<sup>(1)</sup> For an enclosure with depth of 600 mm the compartment depth is 400 mm.  
For an enclosure with depth of 800 mm the compartment depth is 500 mm.

# Compartmentalised enclosure for Motor Control Centres

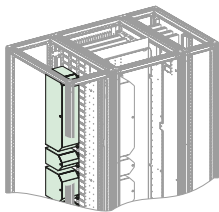
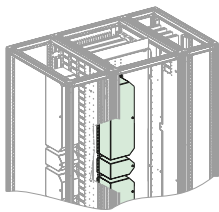
## Partitioning Form 4

### Partitioning Form 4

Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit:


- Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
- Form 4a: terminal for external conductors in the same compartment as the associated.
- Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

#### Form 4b boxes

DE300932			DE300933			
Characteristics	<ul style="list-style-type: none"> <li>■ Metallic plain box composed by 2 parts that can be easily installed for side or rear connection to separate the terminals for external conductors of the functional unit.</li> <li>■ Quick fixing system on the side or on the back partition.</li> <li>■ Available in 6 heights:</li> </ul>					
Cat. no.	3M: NSYBF4B3M	4M: NSYBF4B4M	5M: NSYBF4B5M	6M: NSYBF4B6M	8M: NSYBF4B8M	9M: NSYBF4B9M

### Other universal common accessories

#### Rail support bracket

PB502723-20		
Characteristics	<ul style="list-style-type: none"> <li>■ Bracket for fixing rails at an angle of 45°.</li> <li>■ Reference by unit. Order by multiples of 10 (10, 20, 30...).</li> </ul>	
Cat. no.	NSYFB45	

#### Mounting & Cable management acc.

PB500964-20		PB500964-36	
Cat. no.	See on Universal Enclosure catalogue		


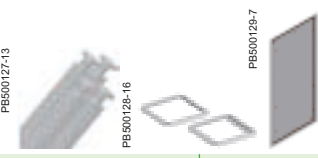





# Compartmentalised enclosure for Motor Control Centres

## Selection of Spacial enclosures

### Common characteristics

- Spacial SFM framework with compartmentalised system that can be combined side-by-side with busbar and cable chambers.
- Receive the cover panels and partial doors IP54 according to IEC 60529.
- Material: steel.
- Finish: structured finish, epoxy-polyester powder.
- Colour: RAL 7035 grey.
- Possibility to order it assembled or kit supply.



Compartmentalised enclosure				
	Assembled supply		Kit supply	
				
	<b>W600</b>	<b>W800</b>	<b>W600</b>	<b>W800</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Structure: Top and bottom frame and vertical uprights H2000 mm.</li> <li>■ Useful height for doors H1800 mm /36M, when are installed the top and bottom fix panels for modularity (mandatory for installation of partial doors).</li> <li>■ Equipped with removable roof, external fixing rear panel and top &amp; bottom fixed panels (H100 mm) to allow modularity of partial doors.</li> <li>■ 4 dimensions available.</li> </ul>			
Cat. no.	D600: <b>NSYSF20660M</b> D800: <b>NSYSF20680M</b>	D600: <b>NSYSF20860M</b> D800: <b>NSYSF20880M</b>	-	-
Vertical uprights H2000 mm	-	-	<b>NSYSFV20</b>	<b>NSYSFV20</b>
Top & Bottom frame with roof	-	-	D600: <b>NSYSFC66</b> D800: <b>NSYSFC68</b>	D600: <b>NSYSFC86</b> D800: <b>NSYSFC88</b>
Rear panel	-	-	<b>NSYBP206</b>	<b>NSYBP208</b>
Fixed panels for modularity H100 mm /2M (intermediate crossbars included)	-	-	See table below	See table below

External claddings					
	Front Fix panel for modularity		Frontal partial doors		Side panels
					
	<b>W600</b>	<b>W800</b>	<b>W600</b>	<b>W800</b>	<b>D600</b>   <b>D800</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Top &amp; bottom fix panel to obtain modularity required to install partial doors.</li> <li>■ If there is no horizontal partitioning on top or bottom, the intermediate crossbar has to be ordered separately, ref. <b>NSYMIC6</b> (W600 mm) or <b>NSYMIC8</b> (W800 mm).</li> <li>■ 2M fixed panels are delivered as standard for the compartmentalized enclosure.</li> <li>■ Possibility to order it separately for Spacial SFM framework in kit supply.</li> <li>■ Available in 2 heights (M) (1).</li> </ul>		<ul style="list-style-type: none"> <li>■ Plain partial door with lock 5 mm double-bar insert.</li> <li>■ They are fixed to the uprights of the framework by means of hinges.</li> <li>■ Drilling template for uprights ref. <b>NSYMDT</b> (2) (Only 1 drilling template by order is needed).</li> <li>■ Opening to right or left.</li> <li>■ 1, 2 or 4 locking points according different heights.</li> <li>■ Possibility to replace locking insert (see page 371).</li> <li>■ Available in following heights (M) (1).</li> </ul>		<ul style="list-style-type: none"> <li>■ Set of 2 side panels fixed to the outside of the enclosure.</li> <li>■ Captive screws pre-mounted on the panels.</li> <li>■ Available in 2 depths (mm).</li> </ul>
Cat. no.	2M: <b>NSYMF2M6</b> (3) 5M: <b>NSYMF5M6</b> (3)	2M: <b>NSYMF2M8</b> (3) 5M: <b>NSYMF5M8</b> (3)	3M: <b>NSYMPD3M6</b> 4M: <b>NSYMPD4M6</b> 5M: <b>NSYMPD5M6</b> 6M: <b>NSYMPD6M6</b> 8M: <b>NSYMPD8M6</b> 9M: <b>NSYMPD9M6</b> 12M: <b>NSYMPD12M6</b> 16M: <b>NSYMPD16M6</b> 18M: <b>NSYMPD18M6</b> 20M: <b>NSYMPD20M6</b> 24M: <b>NSYMPD24M6</b>	3M: <b>NSYMPD3M8</b> 4M: <b>NSYMPD4M8</b> 5M: <b>NSYMPD5M8</b> 6M: <b>NSYMPD6M8</b> 8M: <b>NSYMPD8M8</b> 9M: <b>NSYMPD9M8</b> 12M: <b>NSYMPD12M8</b> 16M: <b>NSYMPD16M8</b> 18M: <b>NSYMPD18M8</b> 20M: <b>NSYMPD20M8</b> 24M: <b>NSYMPD24M8</b>	<b>NSY2SP206</b>   <b>NSY2SP208</b>

(1) Heights according modularity (1M = 50 mm).  
 (2) Only 1 drilling template NSYMDT by order is needed.  
 (3) Each reference contains 2 units.

# Compartmentalised enclosure for Motor Control Centres

## Selection of Spacial enclosures for Motor Control Centres

Busbar & cabling chambers				
	Assembled supply		Kit supply	
	 PB500793-14		 PB500127-13 PB500128-16 PB500129-7 PB500130-7	
	<b>W300</b>	<b>W400</b>	<b>W300</b>	<b>W400</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Structure: Top and bottom frame and vertical uprights H2000 mm.</li> <li>■ Equipped with removable roof, external fixing rear panel and front plain door with 4 point locking system with handle and DB 5 mm insert.</li> <li>■ 4 dimensions available.</li> </ul>			
Cat. no.	D600: <b>NSYSF20360</b> D800: <b>NSYSF20380</b>	D600: <b>NSYSF20460</b> D800: <b>NSYSF20480</b>	-	-
Vertical uprights H2000 mm	-	-	<b>NSYSFV20</b>	<b>NSYSFV20</b>
Top & Bottom frame with roof	-	-	D600: <b>NSYSFC36</b> D800: <b>NSYSFC38</b>	D600: <b>NSYSFC46</b> D800: <b>NSYSFC48</b>
Rear panel	-	-	<b>NSYBP203</b>	<b>NSYBP204</b>
Front plain door	-	-	<b>NSYSFD203</b>	<b>NSYSFD204</b>

# Compartmentalised enclosure for Motor Control Centres

## Spacial accessories

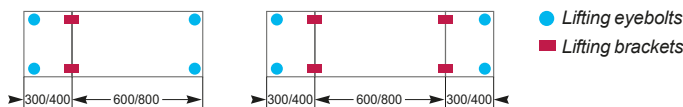
### Other composition accessories

			Cable-gland plates			Plinth (100 mm height)		Plinth (200 mm height)	
H (mm)	W (mm)	D (mm)	Plain	1 entry	2 entries	Front kit	Side kit	Front kit	Side kit
2000	600	600	NSYEC66	NSYEC661	NSYEC662	NSYSPPF6100	NSYSPS6100	NSYSPPF6200	NSYSPS6200
2000	600	800	NSYEC68	NSYEC681	NSYEC682	NSYSPPF6100	NSYSPS8100	NSYSPPF6200	NSYSPS8200
2000	800	600	NSYEC86	NSYEC861	NSYEC862	NSYSPPF8100	NSYSPS6100	NSYSPPF8200	NSYSPS6200
2000	800	800	NSYEC88	NSYEC881	NSYEC882	NSYSPPF8100	NSYSPS8100	NSYSPPF8200	NSYSPS8200
2000	300	600	NSYEC36	NSYEC361	-	NSYSPPF3100	NSYSPS6100	NSYSPPF3200	NSYSPS6200
2000	300	800	-	NSYEC381	-	NSYSPPF3100	NSYSPS8100	NSYSPPF3200	NSYSPS8200
2000	400	600	NSYEC64	NSYEC461	-	NSYSPPF4100	NSYSPS6100	NSYSPPF4200	NSYSPS6200
2000	400	800	NSYEC84	NSYEC481	-	NSYSPPF4100	NSYSPS8100	NSYSPPF4200	NSYSPS8200

	Coupling kit	4 lifting eyebolts	4 lifting brackets	Earth braids	Earthing cables
Characteristics	<ul style="list-style-type: none"> <li>Side-by-side combination.</li> <li>Back-to-back combination <sup>(2)</sup>.</li> </ul>	<ul style="list-style-type: none"> <li>Use a set of lifting eyebolts rings for each framework <sup>(3)</sup>.</li> </ul>	<ul style="list-style-type: none"> <li>When two cubicles with devices have been combined, use a lifting brackets.</li> </ul>	<ul style="list-style-type: none"> <li><b>NSYEB1516D8:</b> <ul style="list-style-type: none"> <li>Length 155 mm,</li> <li>Section 16 mm<sup>2</sup>,</li> <li>Terminal 8.5 mm.</li> </ul> </li> <li><b>NSYEB2025D8:</b> <ul style="list-style-type: none"> <li>Length 200 mm,</li> <li>Section 25 mm<sup>2</sup>,</li> <li>Terminal 8.5 mm.</li> </ul> </li> <li><b>NSYEB2050D8:</b> <ul style="list-style-type: none"> <li>Length 200 mm,</li> <li>Section 50 mm<sup>2</sup>,</li> <li>Terminal 8.5 mm.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><b>NSYEL166D8:</b> <ul style="list-style-type: none"> <li>Length 160 mm,</li> <li>Section 6 mm<sup>2</sup>,</li> <li>Terminal 8.3 mm.</li> </ul> </li> <li><b>NSYEL2225D8:</b> <ul style="list-style-type: none"> <li>Length 220 mm,</li> <li>Section 25 mm<sup>2</sup>,</li> <li>Terminal 8.3 mm.</li> </ul> </li> <li><b>NSYEL3525D8:</b> <ul style="list-style-type: none"> <li>Length 350 mm,</li> <li>Section 25 mm<sup>2</sup>,</li> <li>Terminal 8.3 mm.</li> </ul> </li> </ul>
Cat. no.	NSYSFBK19	NSYSFEB	NSYSFELB	NSYEB1516D8 NSYEB2025D8 NSYEB2050D8	NSYEL166D8 NSYEL2225D8 NSYEL3525D8

<sup>(2)</sup> Back to back association must be shipped individually and combined during on-site installation.

<sup>(3)</sup> For 2 columns:  
For 3 columns:



For more than 3 columns, lengths > 1600 mm, see Lifting bars options on Universal Enclosures catalogue.

### Locks for partial doors

Locks for partial doors		
		Possibility to replace standard insert by one from the table below (CRN range) and by keeping the standard latch.
Type of lock	Insert references	Key references
⊕ 3 mm double bar	NSYTDBCRN*	⊕ NSYLDB5
□ 6 mm	NSYTC6CRN	⊕ NSYLC7
□ 7 mm	NSYTC7CRN	⊕ NSYLC7
□ 8 mm	NSYTC8CRN	⊕ NSYLC8
△ 6.5 mm	NSYTT6CRN	⊕ NSYLT8
△ 7 mm	NSYTT7CRN	⊕ NSYLT8
△ 8 mm	NSYTT8CRN	⊕ NSYLT8

\* Delivered with 1 metal key.

## Thalassa PHD Spacial S3HD - SFHD

# Outdoor Heavy Duty enclosures Introduction

➤ Thalassa PHD is suitable for outdoor public areas thanks to its multiple virtues:

- pressure and shock resistant (IEC 61439-5),
- anti-posting thanks to its special ribbed-surface door,
- insulated (ready to be Class II according to IEC 61439-1: 2011).

PB502630-28

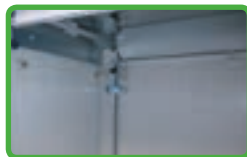


➤ Spacial S3HD and SFHD are designed for outdoor private areas. They are engineered to resist aggressive environments (anti-corrosion certification class C4H, ISO 12944:1999).

PB502602-28



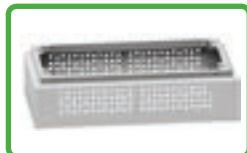
PB502611-34



### Tough

PHD: Heavy Duty polyester reinforced with a double layer of fiberglass in structural parts. Ultra-resistant, anti-vandalism.

PB502673-29



### Heavy Duty accessories

Dedicated accessories to resist outdoor, harsh environments.

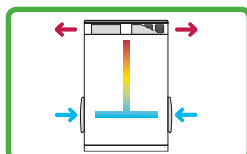
PB502648-11



### Simplicity

Installation simplified: easy to be lifted with up to 1000 kg-loaded equipment. HD lifting accessories also available.

DBE300824-120



### Thermal management solutions

3 ventilation architectures studied to help protect the equipment installed inside from overheating and humidity.

PB502662-30



### Fully equipped

Standard, pre-installed equipment includes:

- a curved canopy to avoid water stagnation
- a door retainer to keep the door open even with strong wind or when a vehicle passes by
- an aluminium cable gland plate to easily drill holes and avoid corrosion
- a document pocket to stock your documents in a practical place.

PB502670-29



### Upper ventilation module

The newly engineered roof ventilation accessory helps to prevent creation of condensation (one of the causes of corrosion).

PB502674-25



### Anti-vandalism

PHD and SFHD: the handle with keylock and additional padlock hole (padlock not included) helps to secure the equipment inside. It is standard equipment.



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

**This range can be configured according to your needs**

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

# Outdoor Heavy Duty enclosures

## Characteristics

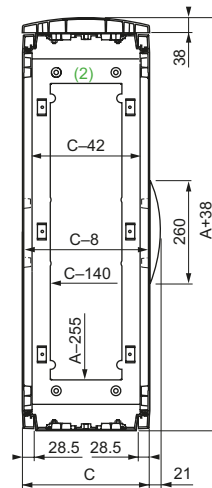
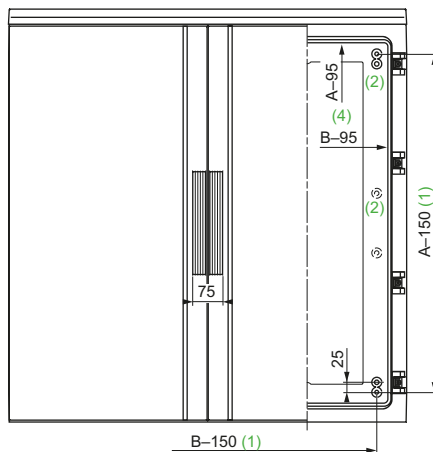
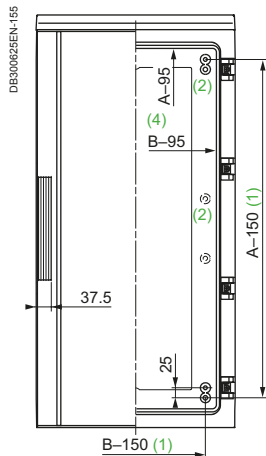


Characteristics	Polyester outdoor Heavy Duty enclosures		Steel outdoor Heavy Duty enclosures	
	Wall-mounting enclosure	Floor-standing enclosure	Wall-mounting enclosure	Floor-standing enclosure
	Outdoor Heavy Duty (HD) enclosures made of polyester insulating material. Suitable to be installed in public areas thanks to its features: <ul style="list-style-type: none"> <li>■ anti-pressure and shock resistant</li> <li>■ anti-posting</li> <li>■ insulated.</li> </ul>		Outdoor Heavy Duty (HD) enclosures made of coated steel. Suitable to be installed in private areas with harsh environments thanks to its capacity to resist: <ul style="list-style-type: none"> <li>■ corrosion (up to C4H level according to ISO 12944:1999)</li> <li>■ UV.</li> </ul>	
Material	HD Polyester reinforced with fiberglass to meet the standard EN 439-5		HD steel with anti-corrosive coating	
Finish	-		Structured finish, 100 % polyester powder	
Colour	RAL 7035 grey		RAL 7035 grey	
Conditions of use	Outdoor and/or harsh environments		Outdoor and/or harsh environments	
Temperature range	-40...80°C		-40...80°C	
Ingress protection rating	IP65 according to IEC 60529	IP55 according to IEC 60529	IP66 according to IEC 60529	IP55 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262		IK10 according to IEC 62262	
Standards	IEC 61439-5: 2010, IEC 62208: 2011, IEC 61439-1: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009		IEC 61439-5: 2010, IEC 62208: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009, ISO 12.944: 1999 (C4H)	
Certifications	See table page 384		See table page 384	
Fixing	On wall by means of optional wall fixing accessory	2 options for installation on floor: <ul style="list-style-type: none"> <li>■ with floor fixing kit <b>NSYMF2PLAZ4</b> or <b>NSYMF2PLAZ6</b> for integrated plinth (50 mm)</li> <li>■ with additional ZZ plinths (ventilated or non-ventilated) available as accessory (200 mm) (see page 377)</li> </ul>	<ul style="list-style-type: none"> <li>■ On wall by means of optional stainless steel wall fixing lugs</li> <li>■ On post by means of optional HD post-fixing device</li> </ul>	<ul style="list-style-type: none"> <li>■ Directly on floor by means of optional plinth (see page 379)</li> </ul>
Maximum load according to IEC 62208	500 kg		200 kg	1000 kg
Other characteristics	<ul style="list-style-type: none"> <li>■ Fire resistant (EN 1794-2:2011)</li> <li>■ Lifting possible from top with eyebolt accessory</li> <li>■ New dedicated ventilation solutions to be integrated in roof, lateral or plinth. 3 ventilation architectures proposed (see page 382 et 383)</li> </ul>		New dedicated ventilation solutions to be integrated in roof, side or plinth	
Options	Plain door or ribbed door		-	
Supply	<ul style="list-style-type: none"> <li>■ Curved canopy</li> <li>■ Handle with keylock (1242E type) and padlock</li> <li>■ Door retainer</li> <li>■ Plastic document pocket (A4 size)</li> </ul>	<ul style="list-style-type: none"> <li>■ Curved canopy</li> <li>■ Integrated plinth</li> <li>■ Handle with keylock (1242E type) and padlock</li> <li>■ Aluminium cable gland plate</li> <li>■ Door retainer</li> <li>■ Plastic document pocket (A4 size)</li> </ul>	<ul style="list-style-type: none"> <li>■ Curved canopy</li> <li>■ 3-mm double-bar lock</li> <li>■ Plastic document pocket (A4 size)</li> <li>■ Door retainer</li> <li>■ Aluminium cable gland plate</li> </ul>	<ul style="list-style-type: none"> <li>■ Curved canopy</li> <li>■ Rear panel</li> <li>■ Handle with keylock (1242E type) and padlock</li> <li>■ Aluminium cable gland plate</li> <li>■ Door retainer</li> <li>■ Plastic document pocket (A4 size)</li> </ul>

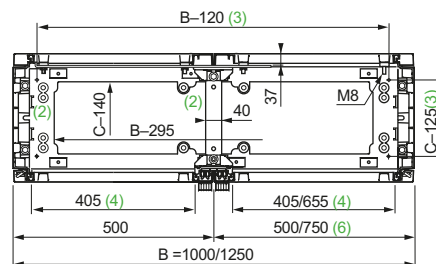
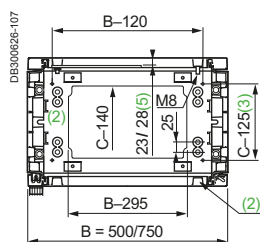
# Outdoor Heavy Duty enclosures

## Dimensions

### Enclosure with airing canopy



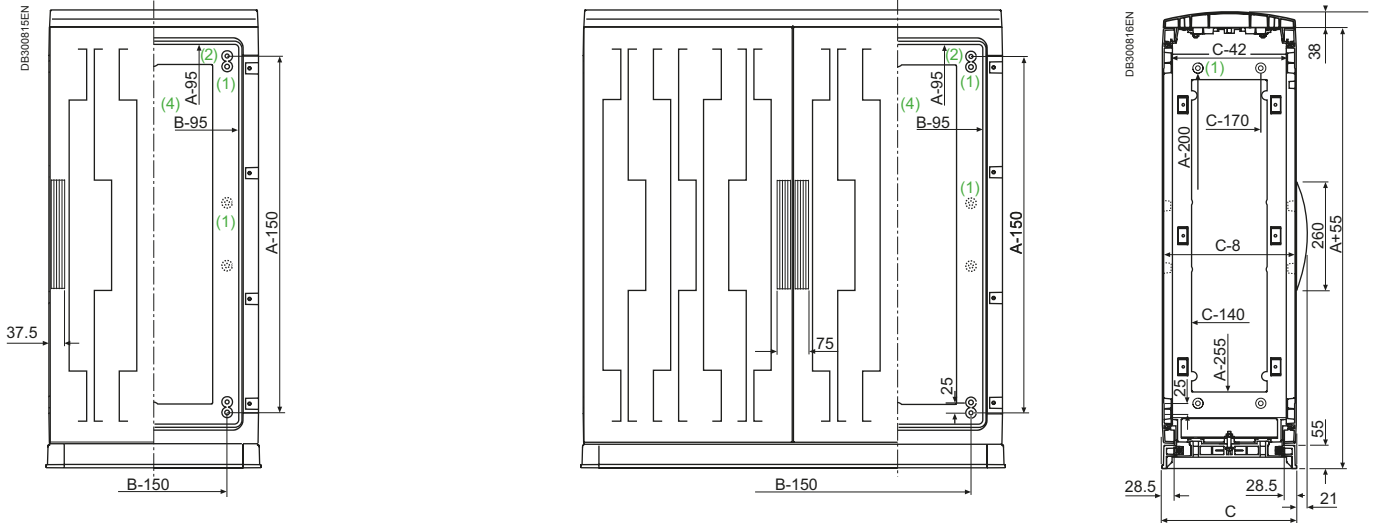
### Common top views



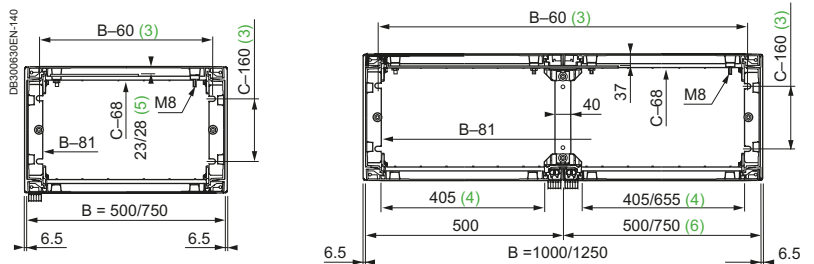
# Outdoor Heavy Duty enclosures

## Dimensions

### Enclosure with airing canopy and plinth-type open bottom part



### Common top views



- (1) 4 bosses with M8 inserts and studs for direct fixing of mounting plates.
- (2) Bosses designed to accommodate M8 inserts, ref. **NSYTEX8**. They are placed:
  - On the back of the enclosure, from the height of 1000 mm. They allow the fixing of partial mounting plates and assorted equipment.
  - On the top and bottom parts of the enclosure. They are used for fixing the step slides, an internal door, 19" chassis, etc.
- (3) Dimensions for fixing on the floor or on a plinth.
- (4) Entry dimensions, door open.
- (5) Dimension of 28 mm for enclosures with heights of more than 1000 mm (height after the installation of the plain mounting plates with reinforcement foldings).
- (6) With a width of 1250 mm in standard supply, 500-mm door on the left and 750-mm door on the right.

# Outdoor Heavy Duty enclosures

## Selection guide and accessories

### Polyester outdoor HD enclosures



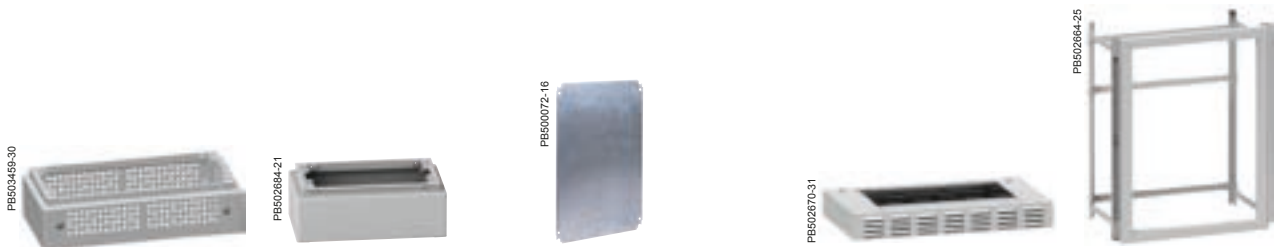
Characteristics					Polyester enclosure		Eyebolts	Wall fixing accessory	Floor fixing kit
					Anti-posting door	Plain door			
							Top lifting accessory for polyester outdoor Heavy Duty enclosure. ■ Maximum load per enclosure: 500 kg.	Wall fixing support for polyester outdoor Heavy Duty enclosure. No change in ingress protection rate. ■ Maximum load per enclosure: 180 kg.	To fix the enclosure on the floor without a plinth.
Material					Glass reinforced polyester	Glass reinforced polyester	Galvanised cast steel	Zinc coated steel	Steel
Finish							-	Zinc coating	Insulating coating
Colour					RAL 7035	RAL 7035	-	-	-
Installation							-	-	On dry concrete
Supply							4	4	1
Height (mm)	Width (mm)	Depth (mm)	No. of doors	References					
<b>Wall-mounted enclosure</b>									
538	500	320	1	NSYPHDT553	NSYPHDT553P	-		NSYFMPHD	-
788	500	320	1	NSYPHDT753	NSYPHDT753P	-		NSYFMPHD	-
<b>Floor-standing enclosure</b>									
843	750	420	1	NSYPHDZT774	NSYPHDZT774P	NSYPLHD	-		NSYMF2PLAZ4
	750	620	1	NSYPHDZT776	NSYPHDZT776P	NSYPLHD	-		NSYMF2PLAZ6
1093	500	420	1	NSYPHDZT1054	NSYPHDZT1054P	NSYPLHD	-		NSYMF2PLAZ4
	750	420	1	NSYPHDZT1074	NSYPHDZT1074P	NSYPLHD	-		NSYMF2PLAZ4
1343	500	420	1	NSYPHDZT1254	NSYPHDZT1254P	NSYPLHD	-		NSYMF2PLAZ4
	750	420	1	NSYPHDZT1274	NSYPHDZT1274P	NSYPLHD	-		NSYMF2PLAZ4
		620	1	NSYPHDZT1276	NSYPHDZT1276P	NSYPLHD	-		NSYMF2PLAZ6
	1250	420	2	NSYPHDZT12124	NSYPHDZT12124P	NSYPLHD	-		NSYMF2PLAZ4
		620	2	NSYPHDZT12126	NSYPHDZT12126P	NSYPLHD	-		NSYMF2PLAZ6
1593	750	420	1	NSYPHDZT1574	NSYPHDZT1574P	NSYPLHD	-		NSYMF2PLAZ4
		620	1	NSYPHDZT1576	NSYPHDZT1576P	NSYPLHD	-		NSYMF2PLAZ6
	1250	420	2	NSYPHDZT15124	NSYPHDZT15124P	NSYPLHD	-		NSYMF2PLAZ4
		620	2	NSYPHDZT15126	NSYPHDZT15126P	NSYPLHD	-		NSYMF2PLAZ6
2093	750	420	2*	NSYPHDZT2074	NSYPHDZT2074P	NSYPLHD	-		NSYMF2PLAZ4

\* Vertical doors.



# Outdoor Heavy Duty enclosures

## Selection guide and accessories



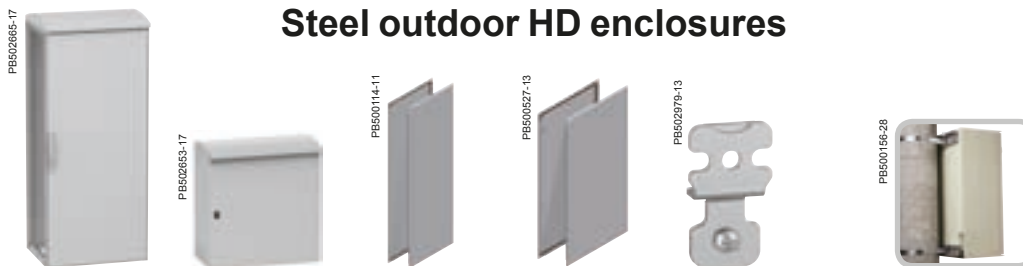
Ventilated ZZ plinth 200 mm**	ZZ plinth 200 mm**	Plain mounting plate	Roof ventilation module	Anti-burglary accessory
Height: 200 mm. The front part can be removed with a 1242 key. Includes a polyester anti-insect filter.	Height: 200 mm. The front and back plates can only be removed from the inside. It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.	The enclosures with height of $\geq 1000$ mm have intermediate bosses to fix the mounting plate (M8 inserts, ref. <b>NSYTEX8</b> , to be ordered separately).	Ventilation module to enable airing from the top of the enclosure (H = 95 mm).	Anti-burglary accessory for polyester outdoor Heavy Duty in accordance with ENV 1627-1630:2011 class 2. It keeps the Insulation Class II according to IEC 61439-1:2011.
Glass-reinforced polyester	Glass-reinforced polyester	Galvanised steel	Steel with anti-corrosive coating (C4H according ISO 12.944: 1999)	Steel with anti-corrosive coating (C4H according ISO 12.944: 1999)
-	-	-	Structured finish, 100 % polyester powder	Structured finish, 100 % polyester powder
RAL 7035 grey	RAL 7035 grey	-	RAL 7035 grey	RAL 7035 grey
-	-	<ul style="list-style-type: none"> <li>■ Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 195)</li> <li>■ In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates</li> </ul>	-	Easy installation on the outside of the enclosure
1	1	1	1	1
-	-	<b>NSYPMM55</b>	-	-
-	-	<b>NSYPMM75</b>	-	-
<b>NSYZZ274VHD</b>	<b>NSYZZ274G</b>	<b>NSYPMM77</b>	<b>NSYPCVR74HD</b>	<b>NSYBGN774HD</b>
<b>NSYZZ276VHD</b>	<b>NSYZZ276G</b>	<b>NSYPMM77</b>	<b>NSYPCVR76HD</b>	<b>NSYBGN776HD</b>
<b>NSYZZ254VHD</b>	<b>NSYZZ254G</b>	<b>NSYPMM105</b>	<b>NSYPCVR54HD</b>	<b>NSYBGN1054HD</b>
<b>NSYZZ274VHD</b>	<b>NSYZZ274G</b>	<b>NSYPMM107</b>	<b>NSYPCVR74HD</b>	<b>NSYBGN1074HD</b>
<b>NSYZZ254VHD</b>	<b>NSYZZ254G</b>	<b>NSYPMM125</b>	<b>NSYPCVR54HD</b>	<b>NSYBGN1254HD</b>
<b>NSYZZ274VHD</b>	<b>NSYZZ274G</b>	<b>NSYPMM127</b>	<b>NSYPCVR74HD</b>	<b>NSYBGN1274HD</b>
<b>NSYZZ276VHD</b>	<b>NSYZZ276G</b>	<b>NSYPMM127</b>	<b>NSYPCVR76HD</b>	<b>NSYBGN1276HD</b>
<b>NSYZZ2124VHD</b>	<b>NSYZZ2124G</b>	<b>NSYPMM1212</b>	<b>NSYPCVR124HD</b>	<b>NSYBGN12124HD</b>
<b>NSYZZ2126VHD</b>	<b>NSYZZ2126G</b>	<b>NSYPMM1212</b>	<b>NSYPCVR126HD</b>	<b>NSYBGN12126HD</b>
<b>NSYZZ274VHD</b>	<b>NSYZZ274G</b>	<b>NSYPMM157</b>	<b>NSYPCVR74HD</b>	<b>NSYBGN1574HD</b>
<b>NSYZZ276VHD</b>	<b>NSYZZ276G</b>	<b>NSYPMM157</b>	<b>NSYPCVR76HD</b>	<b>NSYBGN1576HD</b>
<b>NSYZZ2124VHD</b>	<b>NSYZZ2124G</b>	<b>NSYPMM1512</b>	<b>NSYPCVR124HD</b>	<b>NSYBGN15124HD</b>
<b>NSYZZ2126VHD</b>	<b>NSYZZ2126G</b>	<b>NSYPMM1512</b>	<b>NSYPCVR126HD</b>	<b>NSYBGN15126HD</b>
<b>NSYZZ274VHD</b>	<b>NSYZZ274G</b>	<b>NSYPMM207</b> or <b>2 x NSYPMM107</b>	<b>NSYPCVR74HD</b>	<b>NSYBGN2074HD</b>

\*\* The coupling kit NSYMUPLA\*\*\* is not applicable for enclosures using ZZ or ZH type plinths.

# Outdoor Heavy Duty enclosures

## Selection guide and accessories

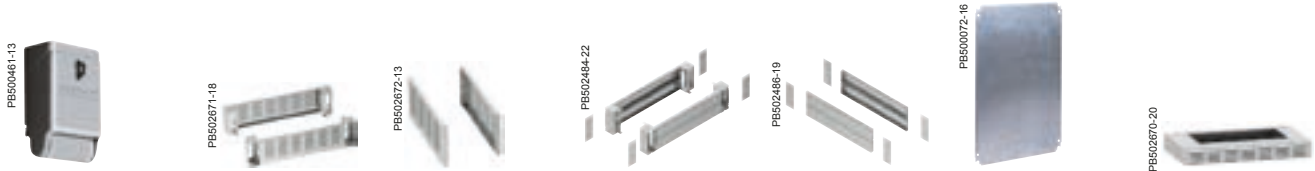
### Steel outdoor HD enclosures



Characteristics				Steel enclosure	Side panels		Stainless steel wall fixing lugs	Heavy duty post-fixing device
					For floor-standing enclosures		For wall-mounting enclosures	
					Side panel fixing for SFHD.		Vertical position only. Do not use for dynamic loads.	Rail fixed on the inserts in the rear of the enclosure with 8-mm screws.
Material					Steel with anti-corrosive coating (C4H according ISO 12.944: 1999)		Stainless-steel AISI 304L	Steel
Finish					Structured finish, 100 % polyester powder		-	Zinc coating
Colour					RAL 7035 grey		-	-
Installation					-		Mounted directly on the rear of the enclosure, in vertical position	On posts with diameter 150 to 210 mm.
Maximum load					-		250 kg	100 kg
Supply					2 side panels with fixing elements and sealing gasket		Set of 4 wall-fixing lugs with fixings and gasket	1
Height (mm)	Width (mm)	Depth (mm)			External fixing	Internal fixing		
<b>Wall-mounting enclosure</b>								
343	200	180	NSYS3HD3215	-	-	-	NSYAEFPFXSC	-
448	300	230	NSYS3HD4320	-	-	-	NSYAEFPFXSC	NSYSFPSC30HD
548	400	230	NSYS3HD5420	-	-	-	NSYAEFPFXSC	NSYSFPSC40HD
653	400	280	NSYS3HD6425	-	-	-	NSYAEFPFXSC	NSYSFPSC40HD
658	600	330	NSYS3HD6630	-	-	-	NSYAEFPFXSC	NSYSFPSC60HD
753	500	280	NSYS3HD7525	-	-	-	NSYAEFPFXSC	NSYSFPSC50HD
858	600	330	NSYS3HD8630	-	-	-	NSYAEFPFXSC	NSYSFPSC60HD
862	800	430	NSYS3HD8840	-	-	-	NSYAEFPFXSC	NSYSFPSC80HD
1062	600	430	NSYS3HD10640	-	-	-	NSYAEFPFXSC	NSYSFPSC60HD
	800	430	NSYS3HD10840	-	-	-	NSYAEFPFXSC	NSYSFPSC80HD
<b>Floor-standing enclosure</b>								
1262	600	430	NSYSFHD12640	NSY2SPHD124	NSY2SPIHD124	-	-	-
	800	430	NSYSFHD12840	NSY2SPHD124	NSY2SPIHD124	-	-	-
	1200	430	NSYSFHD1212402D	NSY2SPHD124	NSY2SPIHD124	-	-	-
1281	600	630	NSYSFHD12660	NSY2SPHD126	NSY2SPIHD126	-	-	-
	800	630	NSYSFHD12860	NSY2SPHD126	NSY2SPIHD126	-	-	-
	1200	630	NSYSFHD1212602D	NSY2SPHD126	NSY2SPIHD126	-	-	-
1662	800	430	NSYSFHD16840	NSY2SPHD164	NSY2SPIHD164	-	-	-
	1200	430	NSYSFHD1612402D	NSY2SPHD164	NSY2SPIHD164	-	-	-
1681	600	630	NSYSFHD16660	NSY2SPHD166	NSY2SPIHD166	-	-	-
	800	630	NSYSFHD16860	NSY2SPHD166	NSY2SPIHD166	-	-	-
	1200	630	NSYSFHD1612602D	NSY2SPHD166	NSY2SPIHD166	-	-	-
2062	800	430	NSYSFHD20840	NSY2SPHD204	NSY2SPIHD204	-	-	-

# Outdoor Heavy Duty enclosures

## Selection guide and accessories



	Heavy Duty padlockable double lock		Stainless-steel plinths 200 mm				Plain mounting plate	Roof ventilation module
	Ventilated plinths		Standard plinths					
	Front and rear kit	Lateral kit	Front and rear kit	Lateral kit	Front and rear kit	Lateral kit		
<b>For wall-mounting enclosures</b> Easy mounting instead of the standard lock.	The front and rear of the plinth consists of 4 corners with 2 panels.	They are fixed to the corner of the plinth by fixing screws.	The front and rear of the plinth consists of 4 corners with 2 panels.	They are fixed to the corner of the plinth by fixing screws.	-	-	Ventilation module to enable airing from the top of the enclosure (H = 95 mm).	
Zamak	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Galvanised steel	Steel with anti-corrosive coating		
Anti-corrosive coating	Scotch-Brite® brushing				-	Structured finish, 100 % polyester powder		
-	-	-	-	-	-	RAL 7035 grey		
-	<ul style="list-style-type: none"> <li>For wall-mounting enclosure: it is necessary to order separately the plinth fixing kit (ref. <b>NSYAPFXWM</b>) composed by fixing hardware and drilling template</li> <li>For floor-standing enclosure: mounting in the holes for fixing the enclosures to the floor</li> </ul>				-	-		
Delivered with 3 mm double-bar metal key	1 kit	1 kit	1 kit	1 kit	1 mounting plate and fixing elements	1		
<b>NSYAEDLPADS3DHD</b>	-	-	-	-	<b>NSYMM32</b>	-		
<b>NSYAEDLPADS3DHD</b>	-	-	-	-	-	-		
<b>NSYAEDLPADS3DHD</b>	-	-	-	-	<b>NSYMM54</b>	-		
<b>NSYAEDLPADS3DHD</b>	-	-	-	-	<b>NSYMM64</b>	-		
<b>NSYAEDLPADS3DHD</b>	<b>NSYSPFVX6200</b>	<b>NSYSPLVX3200</b>	<b>NSYSPFX6200</b>	<b>NSYSPSX3200</b>	<b>NSYMM66</b>	-		
<b>NSYAEDLPADS3DHD</b>	-	-	-	-	<b>NSYMM75</b>	-		
<b>NSYAEDLPADS3DHD</b>	<b>NSYSPFVX6200</b>	<b>NSYSPLVX3200</b>	<b>NSYSPFX6200</b>	<b>NSYSPSX3200</b>	<b>NSYMM86*</b>	-		
<b>NSYAEDLPADS3DHD</b>	<b>NSYSPFVX8200</b>	<b>NSYSPLVX4200</b>	<b>NSYSPFX8200</b>	<b>NSYSPSX4200</b>	<b>NSYMM88</b>	<b>NSYS3CVR84HD</b>		
<b>NSYAEDLPADS3DHD</b>	<b>NSYSPFVX6200</b>	<b>NSYSPLVX4200</b>	<b>NSYSPFX6200</b>	<b>NSYSPSX4200</b>	<b>NSYMM106</b>	<b>NSYS3CVR64HD</b>		
<b>NSYAEDLPADS3DHD</b>	<b>NSYSPFVX8200</b>	<b>NSYSPLVX4200</b>	<b>NSYSPFX8200</b>	<b>NSYSPSX4200</b>	<b>NSYMM108*</b>	<b>NSYS3CVR84HD</b>		
-	-	-	<b>NSYSPFX6200</b>	<b>NSYSPSX4200SF</b>	<b>NSYMP126</b>	<b>NSYSFCVR64HD</b>		
-	<b>NSYSPFVX8200</b>	<b>NSYSPLVX4200SF</b>	<b>NSYSPFX8200</b>	<b>NSYSPSX4200SF</b>	<b>NSYMP128</b>	<b>NSYSFCVR84HD</b>		
-	<b>NSYSPFVX12200</b>	<b>NSYSPLVX4200SF</b>	<b>NSYSPFX12200</b>	<b>NSYSPSX4200SF</b>	<b>NSYMP1212</b>	<b>NSYSFCVR124HD</b>		
-	<b>NSYSPFVX6200</b>	<b>NSYSPLVX6200SF</b>	<b>NSYSPFX6200</b>	<b>NSYSPSX6200SF</b>	<b>NSYMP126</b>	<b>NSYSFCVR66HD</b>		
-	<b>NSYSPFVX8200</b>	<b>NSYSPLVX6200SF</b>	<b>NSYSPFX8200</b>	<b>NSYSPSX6200SF</b>	<b>NSYMP128</b>	<b>NSYSFCVR86HD</b>		
-	<b>NSYSPFVX12200</b>	<b>NSYSPLVX6200SF</b>	<b>NSYSPFX12200</b>	<b>NSYSPSX6200SF</b>	<b>NSYMP1212</b>	<b>NSYSFCVR126HD</b>		
-	<b>NSYSPFVX8200</b>	<b>NSYSPLVX4200SF</b>	<b>NSYSPFX8200</b>	<b>NSYSPSX4200SF</b>	<b>NSYMP168</b>	<b>NSYSFCVR84HD</b>		
-	<b>NSYSPFVX12200</b>	<b>NSYSPLVX4200SF</b>	<b>NSYSPFX12200</b>	<b>NSYSPSX4200SF</b>	<b>NSYMP1612</b>	<b>NSYSFCVR124HD</b>		
-	<b>NSYSPFVX6200</b>	<b>NSYSPLVX6200SF</b>	<b>NSYSPFX6200</b>	<b>NSYSPSX6200SF</b>	<b>NSYMP166</b>	<b>NSYSFCVR66HD</b>		
-	<b>NSYSPFVX8200</b>	<b>NSYSPLVX6200SF</b>	<b>NSYSPFX8200</b>	<b>NSYSPSX6200SF</b>	<b>NSYMP168</b>	<b>NSYSFCVR86HD</b>		
-	<b>NSYSPFVX12200</b>	<b>NSYSPLVX6200SF</b>	<b>NSYSPFX12200</b>	<b>NSYSPSX6200SF</b>	<b>NSYMP1612</b>	<b>NSYSFCVR126HD</b>		
-	<b>NSYSPFVX8200</b>	<b>NSYSPLVX4200SF</b>	<b>NSYSPFX8200</b>	<b>NSYSPSX4200SF</b>	<b>NSYMP208</b>	<b>NSYSFCVR84HD</b>		

### Anti-vandalism kit for plinths

Fixings that help to prevent to open the plinths from the outside with standard tools.

- Material: stainless-steel.

**References**

16 anti-vandalism screws for stainless-steel plinth	<b>NSYSKAV</b>
Key for anti-vandalism screws for stainless-steel plinth	<b>NSYKSKAV</b>

\* Plate with reversible dimensions; it can be installed in enclosures with inverted dimensions. Example: Plate ref. **NSYMM64** can be used for the following enclosures: H 600 x W 400 mm or H 400 x W 600 mm. For plain and silkscreened mounting plates: In wall-mounting enclosures with widths of 1000 and 1200 mm, it is possible to install 2 mounting plates at different depths using an additional central step slide **NSYDRSDCR\*\*\*** (more information on page 210).

PB502897-7  
PB502899-20

# Outdoor Heavy Duty enclosures

## Accessories overview

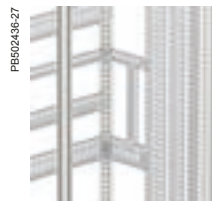
### Installation accessories

#### Mounting acc.



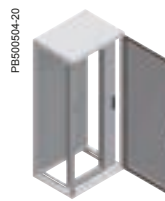
**Polyester:** Page 232  
**Steel:** Page 212

#### Telequick system



**Polyester:** Page 219  
**Steel:** Page 211

#### 19" accessories



**Steel:** Page 424

# Outdoor Heavy Duty enclosures

## Thermal accessories



Characteristics	Fanbox	Filter	Roof filter for fanbox	IP55 HD Metal Grille	Anti-vandalism kit for HD metal grille																		
	<ul style="list-style-type: none"> <li>Free flow rate: 550 m<sup>3</sup>/h (50/60 Hz).</li> <li>Minimal depth inside the enclosure (90 mm).</li> <li>Allows multiple cooling architectures (see page 382 et 383).</li> </ul>	Replacement G3 M1 type synthetic filter for HD metal grille. <b>Dimensions:</b> 215 x 215 mm.	Roof G2 round synthetic filter designed to cover the fanbox. Covers completely the fanbox and helps to protect it from dust and humidity. Mandatory for fanbox installation in the Roof ventilation module for IP55 configurations.	Slim grille (35 mm external depth). Includes a G3 M1 filter.	Fixings that help to prevent to open the grille from the outside with standard tools (EN 1627-1630:2011 Class 2). Quick installation without tools.																		
Material	-	100 % polyester fibres	100 % polyester fibres	Steel with anti-corrosive coating + plastic PA6 / GF25 for fixing frame	Steel with anti-corrosive coating + plastic for fixing screws																		
Finish	-	-	-	Structured finish, 100 % polyester powder	-																		
Colour	RAL 7016 dark grey	White	White	RAL 7035 grey	-																		
Ingress protection rating	-	-	-	IP55 according to IEC 60529	-																		
Mechanical protection rating	-	-	-	IK10 according to IEC 62262	-																		
Supply	1 (grille not included)	5	1	1 grille delivered with G3 M1 type synthetic filter (215 x 215 mm) and fixings	<ul style="list-style-type: none"> <li>4 grip knob</li> <li>4 clip nuts</li> </ul>																		
	<table border="1"> <thead> <tr> <th>Voltage</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>24 V DC</td> <td>NSYCVF550M24FB</td> </tr> <tr> <td>48 V DC</td> <td>NSYCVF550M48FB</td> </tr> <tr> <td>115 V AC</td> <td>NSYCVF550M115FB</td> </tr> <tr> <td>230 V AC</td> <td>NSYCVF550M230FB</td> </tr> </tbody> </table>	Voltage	References	24 V DC	NSYCVF550M24FB	48 V DC	NSYCVF550M48FB	115 V AC	NSYCVF550M115FB	230 V AC	NSYCVF550M230FB	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYCAF223T</td> </tr> </tbody> </table>	Reference	NSYCAF223T	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYCAF190</td> </tr> </tbody> </table>	Reference	NSYCAF190	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYCAG223LFHD</td> </tr> </tbody> </table>	Reference	NSYCAG223LFHD	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYCAAPVHD*</td> </tr> </tbody> </table>	Reference	NSYCAAPVHD*
Voltage	References																						
24 V DC	NSYCVF550M24FB																						
48 V DC	NSYCVF550M48FB																						
115 V AC	NSYCVF550M115FB																						
230 V AC	NSYCVF550M230FB																						
Reference																							
NSYCAF223T																							
Reference																							
NSYCAF190																							
Reference																							
NSYCAG223LFHD																							
Reference																							
NSYCAAPVHD*																							

\* not compatible with NSYSPLA150

# Outdoor Heavy Duty enclosures

## Ventilation architectures

- ① IP55 metal grille
- ② Fanbox
- ③ Roof ventilated module
- ④ Ventilated plinths
- ⑤ IP54 grille



	S-Line				T-Line			
Architecture benefits	<ul style="list-style-type: none"> <li>■ Most common and competitive architecture</li> <li>■ Maximum heat dissipation to extract 800 W-1000 W</li> <li>■ <math>\Delta T^\circ</math> of 5°C</li> <li>■ Easy access to mount-dismount fanbox</li> <li>■ Air flow in horizontal axis</li> </ul>				<ul style="list-style-type: none"> <li>■ High capacity of extraction calories up to 1500 W</li> <li>■ Noise level with 1 fan: 55 dB when installed inside the upper ventilation module</li> <li>■ <math>\Delta T^\circ</math> of 5°C</li> <li>■ Air flow in vertical axis</li> </ul>			
	IP55 metal grille		Fanbox		IP55 metal grille		Fanbox (1 filter NSYCAF190 for each Fanbox)	Roof ventilation module
	Door	Side	Door	Side	Door	Side		

### Polyester outdoor HD enclosure

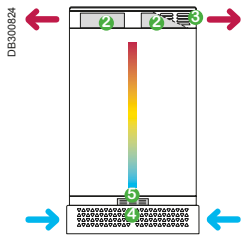
References	Amount to be installed				Amount to be installed				References
NSYPHDT553	-	-	-	-	-	-	-	-	-
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1054	-	1	-	1	-	1	1	1	NSYPCVR54HD
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	NSYPCVR54HD
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT1254	-	1	-	1	-	1	1	1	NSYPCVR54HD
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	NSYPCVR54HD
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD

### Steel outdoor HD enclosure

References	Amount to be installed				Amount to be installed				References
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYS3CVR84HD
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	NSYS3CVR64HD
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYS3CVR84HD
NSYSFHD12640	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	NSYSFCVR64HD
NSYSFHD12660	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	NSYSFCVR66HD
NSYSFHD12840	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR84HD
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR86HD
NSYSFHD16660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1	1	NSYSFCVR66HD
NSYSFHD16840	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR84HD
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	NSYSFCVR86HD
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	NSYSFCVR84HD
NSYSFHD1212402D	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 2	1 to 3	1	NSYSFCVR124HD
NSYSFHD1212602D	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 3	1	NSYSFCVR126HD
NSYSFHD1612402D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYSFCVR124HD
NSYSFHD1612602D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYSFCVR126HD

# Outdoor Heavy Duty enclosures

## Ventilation architectures



This table helps to configure thermal architectures, but it is highly recommended to use ProClima Software to ensure the right thermal solution according to the selected architecture.

### I-Line

- Integrated architecture particularly suitable for public areas
- High capacity of extraction calories up to 1500 W
- Noise level with 1 fan: 55 dB when installed inside the upper ventilation module
- Good extraction flow rate power
- Air flow in vertical axis

<b>IP54 outlet grille</b> (NSYACAG223LPF + G3 filter NSYCAF223T)	<b>Ventilated plinths</b>	<b>Fanbox</b> (1 filter NSYCAF190 for each Fanbox)	<b>Roof ventilation module</b>
---	---------------------------	---	--------------------------------

Amount to be installed		References		Amount to be installed		References	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-

Amount to be installed		References		Amount to be installed		References	
1	1	NSYSPFVX6200	NSYSPSX3200	-	-	-	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD	-
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYS3CVR64HD	-
1	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD	-
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYSFCVR64HD	-
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFCVR86HD	-
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFCVR86HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD	-

# Outdoor Heavy Duty enclosures Certifications

Test description	Standard	Standard title	Certification	Declaration
<b>POLYESTER</b>				
<b>Thalassa PHD</b>				
IP55, IK10, lifting: 500 kg max. (IP65 for wall-mounting)	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Class II Insulation	IEC 61439-1: 2011	Low-voltage switchgear and controlgear assemblies Part 1: general rules	-	✓
Strength of materials and parts	IEC 61439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: assemblies for power distribution in public networks	●	-
Corrosion resistance C4H*	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	-	✓
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stiffness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Fire resistance	EN 1794-2:2011	Vandalism: fire resistance	-	✓
Posting	Internal test	Door anti-posting internal test	-	✓
Single door: types 1, 2, 3, 3R, 4, 4X, 5, 12 & 13 Double door: types 1, 2, 3, 3R, 5, 12 & 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
<b>STEEL</b>				
<b>Spacial SFHD (floor-standing enclosures)</b>				
IP55, IK10, lifting: 1000 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stiffness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: types 1, 3R, 12 Double door: types 1, 3R, 12	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
<b>Spacial S3HD (wall-mounting enclosures)</b>				
IP66, IK10, lifting: 200 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stiffness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: types 1, 2, 3, 3R, 4, 4X, 5, 12 & 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-

\* It affects the painted accessories (ventilated roof, anti-burglary kit). All other metallic parts have special treatment to pass the same test.



# Outdoor Heavy Duty enclosures

## Certifications

Test description	Standard	Standard title	Certification	Declaration
<b>HD ACCESSORIES</b>				
<b>HD THERMAL MANAGEMENT</b>				
<b>Fanbox</b>				
NSYCVF Series are intended for mounting on the flat surface of a Type 12 enclosure	UL 508A CAN/CSA-C22.2 No. 14, CAN/CSA C22.2 No. 94-M91 CAN/CSA C22.2 No. 73	Industrial Control Panels Industrial Control Equipment Special Purpose Enclosures Electrically Equipped Machine Tools	●	-
<b>IP55 HD Metal grille (NSYCAG223LFHD)</b>				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems - part 6: laboratory performance testing methods	●	-
<b>Anti-vandalism kit for HD metal grille (NSYCAAPVHD)</b>				
Resistance Class 2	ENV 1627:2011	Burglar resistance - Requirements and classification	●	-
<b>Upper ventilation module (PHD / SFHD / S3HD)</b>				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance at level C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
<b>HD POLYESTER ENCLOSURES</b>				
<b>Anti-burglary accessory (NSYBGN***HD)</b>				
Resistance Class 2	ENV 1627:2011	Burglar resistance - Requirements and classification	●	-
Corrosion resistance at level C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
<b>ZZ plinths (NSYZZ*** &amp; NSYZZ***VHD)</b>				
ZZ Plinth: IP44 (in conditions of use) Ventilated ZZ Plinth: IP43 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓
<b>Eyebolts (NSYPLHD)</b>				
Maximum load 500Kg	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	-	✓
<b>HD STEEL ENCLOSURES</b>				
<b>Stainless steel plinths (NSYSPFVX*** / NSYSPLVX*** / NSYSPSX*** / NSYSPSX***)</b>				
Ventilated plinth: IP20 (in conditions of use) Standard plinth: IP30 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓

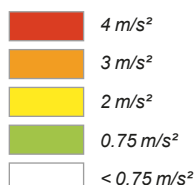
# Seismic and nuclear enclosures

## Introduction

New

SF

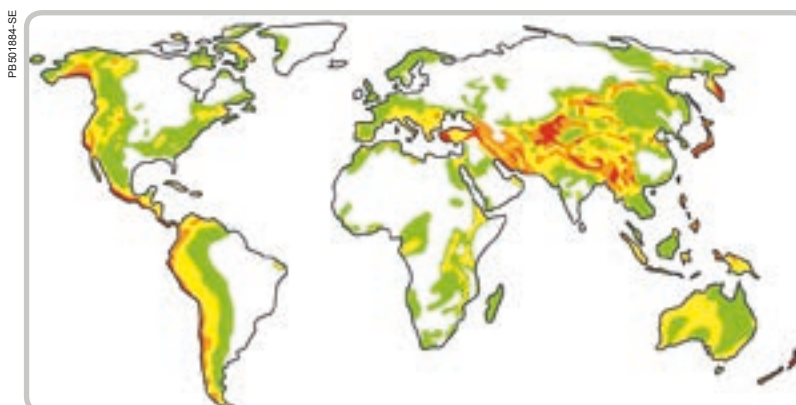
S3D



### The seismic risk

No point of the globe is immune to an earthquake. However, the probability of being subjected to an earthquake of a given intensity varies from one location to another.

The map below, taken from IEC 60721-2-6 (Figure 5), shows the distribution of the seismic risk on the 5 continents.



### Spacial enclosures faced with seismic risk

#### ■ Spacial standard range solutions

The Spacial standard offers have been qualified for use in areas subject to medium intensity earthquakes (ground acceleration  $\leq 3 \text{ m/s}^2$ ).

For details of the seismic resistance of the standard offers, see in each chapter for the following offers:

- S3D, CRN, CRNG et 19" wall mounting enclosures,
- SBM industrial boxes,
- SF enclosures (automation and monitoring/control),
- SFP enclosures (functional system for low-voltage electricity distribution),
- 19" SF enclosures (pivoting rack).

#### ■ Enclosures for strong earthquakes

In order to meet the requirements of high-seismic zones (ground acceleration  $\geq 4 \text{ m/s}^2$ ), Schneider Electric has developed 3 offers:

- floor-standing enclosures SF 6G and SFP 5G,
- wall-mounting enclosure S3D 6G,
- wall-mounting enclosure S3D 6G K3 meeting the requirements of the nuclear power industry specified by EDF (Electricité de France) and the ASN (Agence de Sûreté Nucléaire).

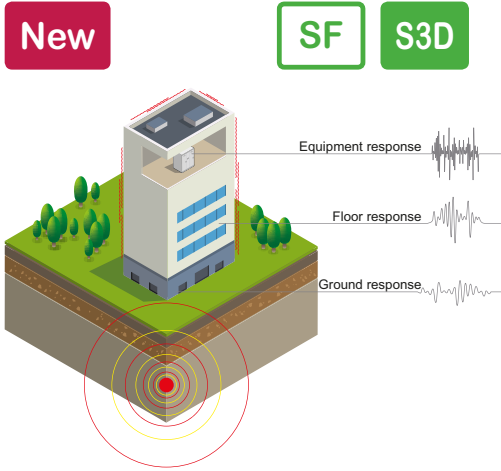
#### ■ Certifications

All tests have been performed according to the following technical regulations:

- IEC 60068-3-3 (first edition): International standard. Environmental testing – Part 3 : Guidance – Seismic test methods for equipment
  - CRT 91-C-112-00: Seismic resistance of equipment
- Generic provisions for bi-axial testing using accelerograms
- IEC 60980: Recommended practices for seismic qualification of electrical equipment of the safety system for nuclear generating stations

# Seismic and nuclear enclosures

## Introduction



New

SF S3D

### Technical information

#### Seismic standards

There is no single international standard. The standards depend on each country/ zone and are linked to civil engineering standards.

#### The main ones are:

- International Building Code (I.B.C. Ex UBC)
- IEC 60068-3-3,
- EDF specification CRT 91C11200 (ex-HN-20-E-53)
- GR CORE 63 Telcordia

The Spacial enclosures have been tested according to standards IEC 60068-3-3 and CRT 91-C-112-00.

CRT 91-C-112-00 is one of the most restrictive specifications, and for which it is therefore more difficult to obtain certification.

To define the seismic resistance of equipment, it is necessary to take into account the geological characteristics of the earthquake and the behavior of the building, and compare these with the equipment's seismic performance.

#### Definitions

**Ground acceleration:** Ground acceleration resulting from an earthquake.

*Note: In practice, ground acceleration can be broken down into horizontal and vertical components.*

**Floor acceleration :** Ground acceleration measured on a particular floor in a building (at the location of an equipment item).

*Note: In practice, floor acceleration can be broken down into horizontal and vertical components.*

**Required response spectrum (RRS):** Representation of the amplification of the ground acceleration caused by the structure or equipment according to the wave frequency. Used for determining equipment dimensions and qualifying the equipment.

**Test response spectrum (TRS):** Representation of the amplification of tested products during tests on vibrating table.

Two parts are defined in the response spectra:

■ **Floor part:** On the product zone in contact with the vibrating table there is no amplification of the acceleration. The acceleration value recorded for the spectrum is that measured on the ground.

■ **Strong part:** The acceleration value recorded for the spectrum is the maximum amplified acceleration expected at the center of gravity of the equipment. This is not a measurable quantity but a mathematical representation.

**Conclusion:** The TRS values are to be compared with the RRS values. If they are greater, the equipment will resist the effects of the earthquake.

### 1 • Geology

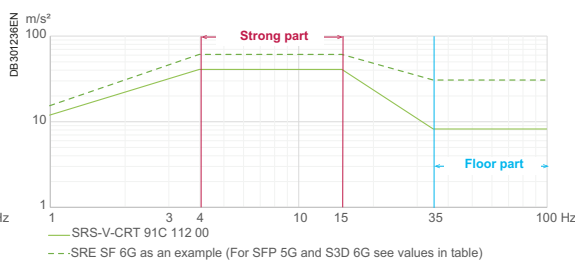
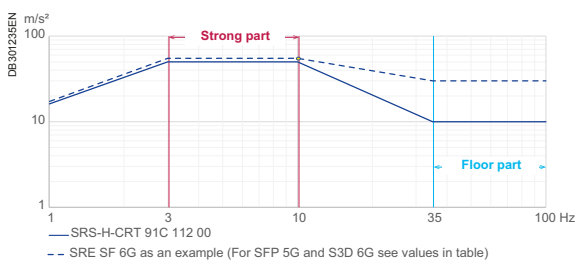
Equivalence between scales characterizing the earthquake		
MSK	Richter	IEC 60068-3-3 (ground acc.)
<VIII	< 5,5	2 m/s <sup>2</sup>
VIII to IX	≥ 5,5 and ≤ 7	3 m/s <sup>2</sup>
>IX	> 7	5 m/s <sup>2</sup>

\* Anticipating the possible rise in the RRS level in a subsequent revision of CRT 91 C 112.

### 2 • Civil engineering

Example acceleration levels on the floor of a building (RRS)	
All types of building (IEC 60068-3-3)	EDF specification for nuclear power plant <sup>(1)</sup>
6 m/s <sup>2</sup>	
9 m/s <sup>2</sup>	10 m/s <sup>2</sup> - 8 m/s <sup>2</sup>
15 m/s <sup>2</sup>	20 m/s <sup>2</sup> - 24 m/s <sup>2</sup> *

### 3 • Equipment performance tested according to CRT 91 C 112 00



Products	Floor part acc	Strong part acc
SFP 5G	20 m/s <sup>2</sup>	50 m/s <sup>2</sup>
SF 6G*	30 m/s <sup>2</sup>	50 m/s <sup>2</sup>
S3D 6G*	30 m/s <sup>2</sup>	55 m/s <sup>2</sup>

Products	Floor part acc	Strong part acc
SFP 5G	20 m/s <sup>2</sup>	40 m/s <sup>2</sup>
SF 6G*	30 m/s <sup>2</sup>	60 m/s <sup>2</sup>
S3D 6G*	40 m/s <sup>2</sup>	80 m/s <sup>2</sup>

# Seismic and nuclear enclosures

## Introduction

New

SF

> The **Spacial SF 6G** enclosures have been designed to withstand earthquakes corresponding to UBC Zone 4.



### Spacial SF 6G for seismic risks

PB503482



#### Panel mounting

- 12 fastening points by M6 screws per panel.

PB503489



#### Plinths

- Enhanced mechanical strength (monobloc structure).
- Assembled on the enclosure.
- Floor fixing: 10 fastening points by M12 screws.

PB502834-17



PB503461



#### Security locking system

- Seismic locking system.
- Special connecting rods and handle to prevent any accidental door opening under severe vibration conditions.

PB503483



#### Multi-purpose corners

- To strengthen the enclosure and respond to seismic risks.
- To strengthen fastening of the side panels and rear panel.
- To fasten the door connecting rods.

# Seismic and nuclear enclosures

## Characteristics

New

SF

### Spacial SF 6G for seismic risks



Characteristics	Spacial SF 6G
	Enclosures designed to be installed in UBC Zone 4. They have been tested with a plain mounting plate and 19" rack. Integrated plinth.
Material	Steel
Supply	<b>Framework</b> <ul style="list-style-type: none"> <li>■ 1 upper frame with roof</li> <li>■ 1 lower frame</li> <li>■ 1 rear panel</li> <li>■ 4 uprights</li> <li>■ 8 multi-purpose reinforcement corners</li> <li>■ 8 cross rails fastened to the framework contributing to the seismic resistance (3 left, 3 right, 2 rear)</li> </ul> <b>Plinth</b> <ul style="list-style-type: none"> <li>■ Monobloc base 4 mm thick, 100 mm high</li> </ul> <b>Door</b> <ul style="list-style-type: none"> <li>■ Plain door with EDF 1600 captive key lock</li> <li>□ 3 fastening points with connecting rods</li> <li>□ Door hinges on right (opposite direction available on request)</li> </ul> <b>Coupling</b> <ul style="list-style-type: none"> <li>■ Possibility to couple SF 6G enclosures with the coupling kits ref. NSYSFBK19 + NSYSFBKR</li> <li>■ Possibility to couple plinth with the ref. NSYPLK6G</li> </ul>
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Maximum load	80 kg/m <sup>2</sup> on plain mounting plate 250 kg on 19" fixed uprights in compliance with the IEC 61587-2 standard
Standards	IEC 62208 (enclosure) - IEC 60068-3-3 (seismic methods to apply for materials)
Certifications	6G certification as per CRT 91-C-112-00 (EDF) - UL 508 types 1, 3R, 12
<b>Dimensions H x W x D (mm)</b>	<b>References</b>
2000 x 600 x 400	<b>NSYSF6G20640</b>
2000 x 600 x 600	<b>NSYSF6G20660</b>
2000 x 600 x 800	<b>NSYSF6G20680</b>
2000 x 800 x 400	<b>NSYSF6G20840</b>
2000 x 800 x 600	<b>NSYSF6G20860</b>
2000 x 800 x 800	<b>NSYSF6G20880</b>

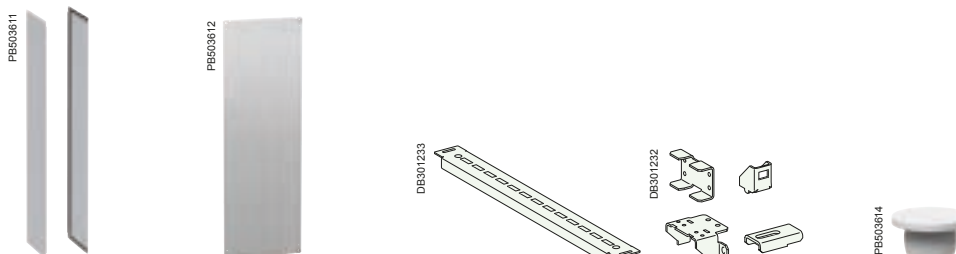
# Seismic and nuclear enclosures

## Characteristics and accessories

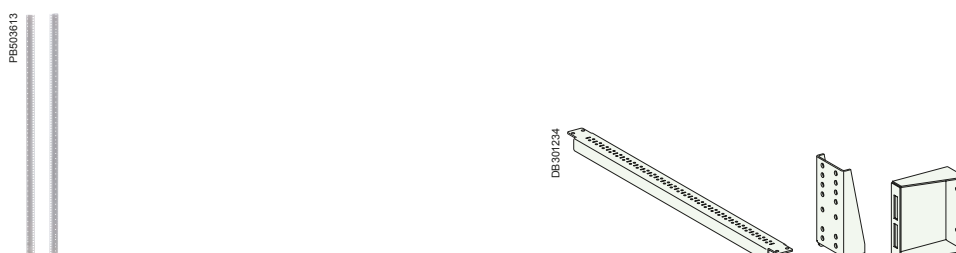
New

SF

### Spacial SF 6G for seismic risks



Characteristics	Side panels	Mounting plate	Reinforced fixing kit for mounting plate		Trim cap for SF 6G panels
	Specific panels for Spacial SF 6G. Direct fastening from the outside.	-			Trim cap for side and rear panels, external fastening.
Material	Steel	Galvanised steel	Zinc-coated steel	Steel	Plastic
	12 fastening points	Mounting plate to be installed with <b>NSYSFPB6G</b> fastening kit + <b>NSYHLCR</b> cross-rails			-
Supply	2 side panels and fasteners	1 mounting plate and sliding shoes	2 cross rails and fixing elements	<ul style="list-style-type: none"> <li>■ 6 anti-vibration supports</li> <li>■ 4 mounting brackets</li> <li>■ 4 supports</li> <li>■ 2 connectors and fixing elements</li> </ul>	50 units
Dimensions H x W x D (mm)	References				
2000 x 600 x 400	<b>NSY6G2SP204</b>	<b>NSYMP206</b>	<b>NSYHLCR40</b>	<b>NSYSFPB6G</b>	<b>NSYCSP6G</b>
2000 x 600 x 600	<b>NSY6G2SP206</b>		<b>NSYHLCR60</b>		
2000 x 600 x 800	<b>NSY6G2SP208</b>		<b>NSYHLCR80</b>		
2000 x 800 x 400	<b>NSY6G2SP204</b>	<b>NSYMP208</b>	<b>NSYHLCR40</b>		
2000 x 800 x 600	<b>NSY6G2SP206</b>		<b>NSYHLCR60</b>		
2000 x 800 x 800	<b>NSY6G2SP208</b>		<b>NSYHLCR80</b>		



Characteristics	19" fixed uprights	Reinforced fixing kit for 19" fixed uprights
	Uprights designed to be assembled on enclosures 800 mm wide and 800 mm deep.	-
Material	Zinc-coated steel	Steel
Fixing	To fasten the 19" uprights, it is necessary to use the fixing kit <b>NSYRCK19KIT6G</b>	-
Supply	2 uprights and fasteners	<ul style="list-style-type: none"> <li>■ 4 cross rails</li> <li>■ 8 fastening brackets</li> <li>■ 4 reinforcements</li> <li>■ Fixing elements</li> </ul>
Dimensions H x W x D (mm)	References	
2000 x 800 x 800	<b>NSYRCK42 (1)</b>	<b>NSYRCK19KIT6G</b>

(1) Set of 2 uprights. For a 19" seismic configuration, 4 uprights must be used.

# Seismic and nuclear enclosures

## Characteristics and accessories

New

SF

### Spacial SF 6G for seismic risks



Characteristics	Optional locks for cubicle
	With captive key.
Material	Polyamide handle, metal connecting rods and cam
Supply	3-point lock with 1 lock button and 1 cremone bolt
References	
EDF 900	NSYAEDLEDF9K33
EDF 1300	NSYAEDLEDF13K33
EDF 1400	NSYAEDLEDF14K33
1242E	NSYAEDL1242K33
405E	NSYAEDL405K33
455E	NSYAEDL455K33

### Local seismic standards: conformity with acceleration severity levels

Standards	Specifications
EDF book of technical rules CRT 91C11200	"Large equipment" MRI RRS: <ul style="list-style-type: none"> <li>■ Horizontal: <ul style="list-style-type: none"> <li>□ Floor acceleration = 2 g</li> <li>□ Amplified max. acceleration at center of gravity = 5 g</li> </ul> </li> <li>■ Vertical: <ul style="list-style-type: none"> <li>□ Floor acceleration = 2.4 g</li> <li>□ Amplified max. acceleration at center of gravity = 6 g</li> </ul> </li> </ul>
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 3. Nuclear market: MSK intensity 9, level 2.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s <sup>2</sup> Importance factor = 1.3

# Seismic and nuclear enclosures

Customized offer

New

SF

## Spacial SF 6G for seismic risks

### 1 > Special dimensions available on demand

#### Busbar compartment enclosure

Height

2200	600
2000	500/600/800, 400/500/600/800
1800	400/500/600
1600	
1400	
1200	

Available depths

300	400	600	800
-----	-----	-----	-----

Width

#### Enclosure equipped with plain mounting plate

Height

2200	600/800, 600/800
2000	500, 500
1800	400/500/600/800, 400/500/600
1600	600/800, 600/800
1400	400, 400
1200	400/600, 400/600

Available depths

300	400	600	800
-----	-----	-----	-----

Width

#### Enclosure equipped with 19" fixed rack

Height

2200	800
2000	
1800	600
1600	800
1400	
1200	

Available depths

300	400	600	800
-----	-----	-----	-----

Width



# Seismic and nuclear enclosures

Customized offer

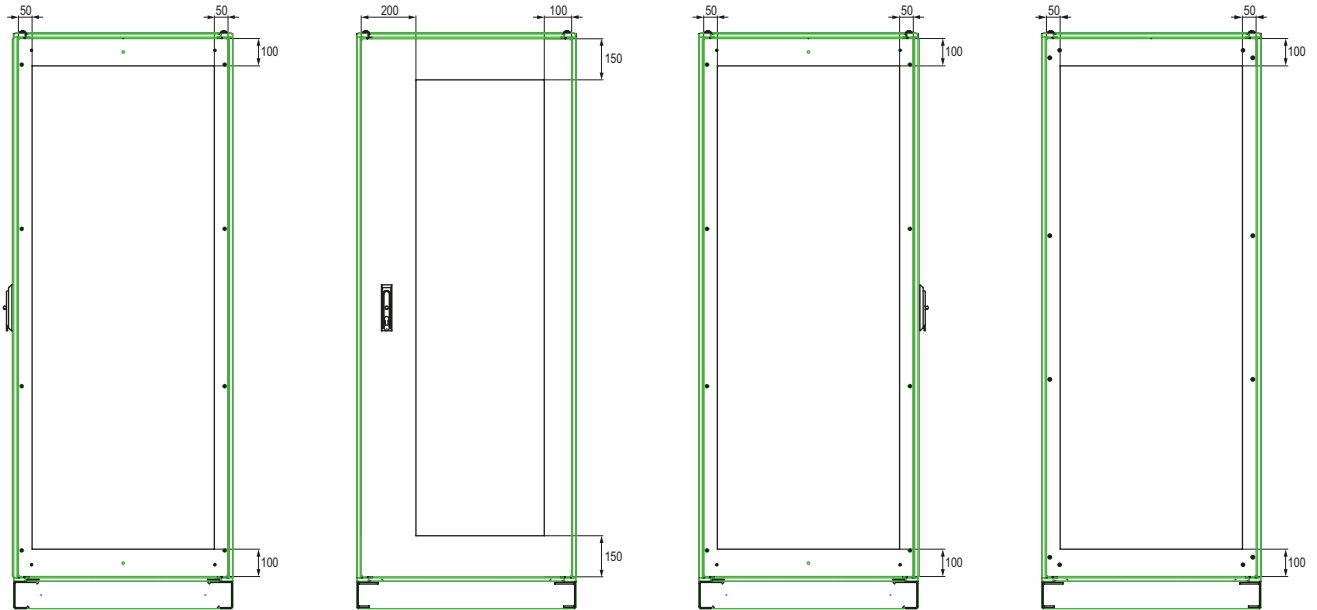
New

SF

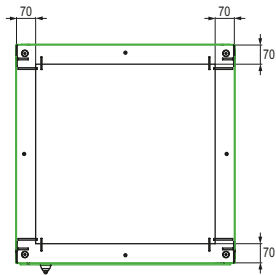
## Spacial SF 6G for seismic risks

### 2 > Cut-outs

Customization areas guaranteeing 6G resistance



Top view



# Seismic and nuclear enclosures

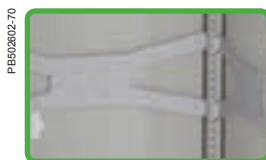
## Introduction

**SF**

> The **Spacial SFP 5G** enclosures (functional system for low-voltage electricity distribution) have been designed to withstand earthquakes corresponding to UBC Zone 4.



### Spacial SFP 5G for seismic risks



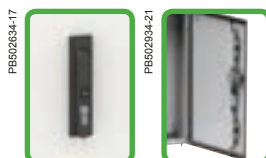
#### Reinforced crosspieces

- Two reinforced crosspieces ensure the structure's mechanical strength.



#### Panel mounting

- Mounting systems prevent loosening of the screws.



#### Security locking system

- Seismic locking system.
- Special bars and handle to prevent any accidental door opening under severe vibration conditions.



#### Reinforced plinths

- New reinforced monobloc plinths.



#### Tested with Schneider Electric devices

# Seismic and nuclear enclosures

## Characteristics

SF

### Spacial SFP 5G for seismic risks



Characteristics		Spacial SFP 5G			
		Enclosures designed to be installed in UBC Zone 4. Monobloc base to enhance the structure's mechanical strength. 2 configurations with devices have been tested: 1600 A and 3200 A.			
Material		Steel			
Supply		<b>Framework</b> <ul style="list-style-type: none"> <li>■ Reinforcing cross for improved structural strength</li> <li>■ 4 uprights fitted with Rivkle nuts</li> </ul>			
Ingress protection rating		IP55 according to IEC 60529			
Mechanical protection rating		IK10 according to IEC 60262			
Maximum load		350 kg for configuration 1800 A 450 kg for configuration 3200 A			
Standards		IEC 62208 (enclosure) - IEC 60068 (seismic methods to apply for materials)			
Certifications		6G certification as per CRT 91-C-112-00 (EDF) - UL 508 types 1, 3R, 12			
Cubicle dimensions		Configuration		References	
H x W x D (mm)	(A)	Enclosure with plain door	Compartment for busbars with plain door	Side panels	100 mm plinth
2000 x 700 x 500	1600	NSYSFP5G20750	-	NSY5G2SP205	NSYS5GPC75
2000 x 300 x 500	1600	-	NSYSF5G20350	NSY5G2SP205	NSYS5GPC35
2000 x 700 x 800	3200	NSYSFP5G20780	-	NSY5G2SP208	NSYS5GPC78
2000 x 300 x 800	3200	-	NSYSF5G20380	NSY5G2SP208	NSYS5GPC38

**NB:** - The width (300 mm) of the Spacial SFP 5G cubicle for the busbar duct is not compatible with the Spacial SF 5G cubicle.  
- The customer must ensure good cubicle/base connection.

# Seismic and nuclear enclosures

## Characteristics

SF

### Spacial SFP 5G for seismic risks

#### Local seismic standards: conformity with acceleration severity levels

Standards or specifications	Specifications
EDF book of technical rules CRT 91C11200	Required response spectrum: <ul style="list-style-type: none"> <li>■ Horizontal: <ul style="list-style-type: none"> <li>□ Floor acceleration = 1 g</li> <li>□ Amplified max. acceleration at center of gravity = 5 g</li> </ul> </li> <li>■ Vertical: <ul style="list-style-type: none"> <li>□ Floor acceleration = 0,8 g</li> <li>□ Amplified max. acceleration at center of gravity = 4 g</li> </ul> </li> </ul>
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 2. Nuclear market: MSK intensity 9, level 0.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s <sup>2</sup> Importance factor = 1.3

# Seismic and nuclear enclosures

## Accessories

SF

### SF enclosures for seismic risks

#### Compatibility of accessories

Accessories		SF 6G compatibility	SFP 5G compatibility	Comments
<b>Trade references impacted</b>	<b>Description</b>		<b>(Prisma system)</b>	
<b>NSYSDT●</b>	Folding mounting shelf	Please contact us	Compatible	Depends on size
<b>NSYSDP●M</b>	Metal document holder	Please contact us	Compatible	Depends on size
<b>NSYDPA●●</b>	Plastic document holder	Compatible	Compatible	-
<b>NSYMP●●●</b>	Mounting plate	Compatible	-	Position 200 mm mini from the rear panel
<b>NSYSUCR●●</b>	Universal cross rail	Compatible	-	-
<b>NSYSQCR●●</b>	Quick cross rail	Compatible	-	-
<b>NSYSICR●●</b>	Integrated cross rail	Compatible	-	-
<b>NSYHLCR●●</b>	Cross rail for heavy loads	Compatible	-	-
<b>NSYSLCR●●</b>	Light cross rail	Compatible	-	-
<b>NSYFXT●●●●</b>	Fixed Trays	Compatible	-	-
<b>NSYSPMP●</b>	Partial plain mounting plate	Compatible	-	-
<b>NSYSTMP●●</b>	Telequick mounting plate	Compatible	-	-
<b>NSYSDCR●●</b>	Door cable-guide cross-rail	Compatible	Compatible	Select the smaller-sized cross rail

# Seismic and nuclear enclosures

## Introduction

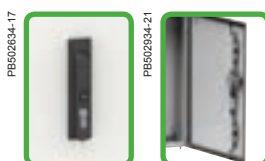
### S3D

> **Spacial S3D 6G** cubicles are designed to withstand earthquakes up to UBC zone 4.



#### Strength

- Panel thickness:
- Casing + door: 20/10 mm;
- Entry flange: 15/10 mm.



#### Security locking system

- EDF 1600 security locking system with captive key.



#### Reinforced mounting plate

- Mounting plate reinforcement.
- Increased number of attachment points.



#### Wall mounting

- Reinforced bracket for wall mounting.

# Seismic and nuclear enclosures

## Characteristics, accessories

S3D

### Spacial S3D 6G solutions for seismic risks



Characteristics	Spacial S3D 6G
	Seismic applications up to UBC zone 4.
Material	Steel
Supply	<b>Body</b> <ul style="list-style-type: none"> <li>■ Monobloc casing (cross structure). Gutter-shaped front profile. Flat back</li> <li>■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing</li> <li>■ Entry flange</li> <li>■ Maximum load: 10 kg</li> </ul> <b>Door</b> <ul style="list-style-type: none"> <li>■ Plain door with EDF 1600 captive key lock</li> <li>□ H &lt; 600: 1 fastening point</li> <li>□ H ≥ 600: 3 fastening points</li> <li>■ Non-reversible door (for reversibility, please contact us)</li> <li>■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing</li> <li>■ 120° door opening</li> <li>■ Maximum load: 10 kg</li> </ul> <b>Mounting plate</b> <ul style="list-style-type: none"> <li>■ Mounting plate galvanized before mounting</li> <li>■ Maximum load: 80 kg/m<sup>2</sup></li> <li>Two wall mounting brackets</li> </ul>
Ingress protection rating	IP65 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Standards	IEC 62208 (enclosure) - IEC 60068-3-3 (seismic methods to apply for materials)
Certifications	6G certification as per CRT 91-C-112-00 (EDF)
<b>Dimensions H x W x D (mm)</b>	<b>References</b>
300 x 250 x 150	<b>NSYS3D6G32515P</b>
400 x 300 x 200	<b>NSYS3D6G4320P</b>
600 x 500 x 250	<b>NSYS3D6G6525P</b>
700 x 500 x 250	<b>NSYS3D6G7525P</b>
800 x 600 x 300	<b>NSYS3D6G8630P</b>
1200 x 800 x 400	<b>NSYS3D6G12840P</b>

**NB:** The customer must ensure good cubicle/base connection.



Characteristics	Locks for cubicle		Padlocking lug
	≤ H 600	> H 600	
	With captive key.	With captive key.	Securing of cubicle access.
Material	Zamak lock and metal cam	Polyamide handle, metal connecting rods and cam	White galvanized steel
Supply	1- or 3-point lock with 1 lock button and 1 cremone bolt	3-point lock with 1 lock button and 1 cremone bolt	-
<b>References</b>			<b>NSYAEDLPADS3DK3</b>
-	-	-	-
EDF 900	<b>NSYAEDLEDF9K31</b>	<b>NSYAEDLEDF9K33</b>	-
EDF 1300	<b>NSYAEDLEDF13K31</b>	<b>NSYAEDLEDF13K33</b>	-
EDF 1400	<b>NSYAEDLEDF14K31</b>	<b>NSYAEDLEDF14K33</b>	-
1242E	<b>NSYAEDL1242K31</b>	<b>NSYAEDL1242K33</b>	-
405E	<b>NSYAEDL405K31</b>	<b>NSYAEDL405K33</b>	-
455E	<b>NSYAEDL455K31</b>	<b>NSYAEDL455K33</b>	-

# Seismic and nuclear enclosures

## Characteristics

S3D

### Local seismic standards: conformity with acceleration severity levels

Standards	Specifications
EDF book of technical rules CRT 91C11200	"Large equipment" MRI RRS: <ul style="list-style-type: none"> <li>■ Horizontal: <ul style="list-style-type: none"> <li>□ Floor acceleration = 2 g</li> <li>□ Amplified max. acceleration at center of gravity = 5 g</li> </ul> </li> <li>■ Vertical: <ul style="list-style-type: none"> <li>□ Floor acceleration = 2.4 g</li> <li>□ Amplified max. acceleration at center of gravity = 6 g</li> </ul> </li> </ul>
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 3. Nuclear market: MSK intensity 9, level 2.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s <sup>2</sup> Importance factor = 1.3

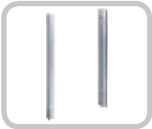





# Seismic and nuclear enclosures

## Accessories

S3D

**Table of Compatibility of accessories in 6G seismic S3D cubicles**

Accessories		Compatibility	Comments
Trade references impacted	Description		
 <p>PB500322-11</p>	<p><b>NSYVDM●●●●</b></p> <p>19" rack</p>	Limited	Conditions: Drilling by customization department to be provided for
 <p>ISPA011_010-43</p>	<p><b>NSYINLCRN</b></p> <p>Door switch</p>	Limited	Conditions: Drilling by customization department to be provided for
 <p>PB500083-29</p>	<p><b>NSYDPA●●</b></p> <p>Diagram holder</p>	Yes	-
 <p>PB500338-24</p>	<p><b>NSYAELYTCRG8</b></p> <p>Lifting rings</p>	Limited	Conditions: Drilling by customization department to be provided for

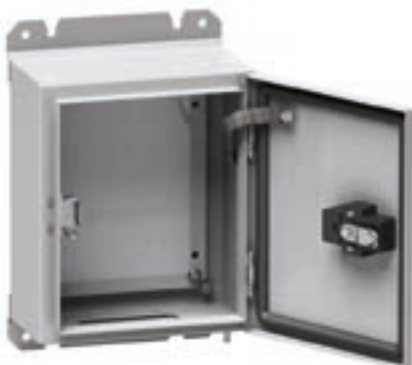
**Comment:** None of the accessories are certified 6G.

# Seismic and nuclear enclosures

## Introduction

➤ The **Spacial S3D 6G K3** cubicle meets K3 requirements in accordance with RCCE 2012.

PB502761SE-56



PB502767-58



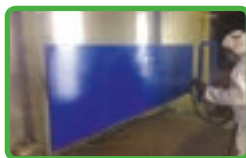
PB502761SE-102



### Strength

- Panel thickness:
- Casing + door: 20/10 mm;
- Entry flange: 15/10 mm.

PB502773-32



### Decontaminatable smooth paint, PID 100 series

- In compliance with CCTR 91.C.031.06 Two coats of paint (minimum thickness: 60 μ).
- Epoxy-polyester powder, PID 100 series.
- PIA-PIC 100 on request.

PB502634-17



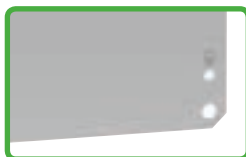
PB502763-8



### Security locking system

- EDF 1600 security locking system with captive key.

PB502766-41



### Reinforced mounting plate

- Mounting plate reinforcement.
- Increased number of attachment points.

PB502770-36



### Earth continuity

Earth continuity between the interior and exterior of the cubicle is provided by 2 opposite welded studs (external earth screw principle).

PB502761SE-56



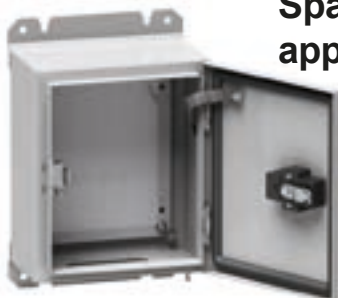
### Wall mounting

- Reinforced bracket for wall mounting.

# Seismic and nuclear enclosures

## Characteristics, accessories

PB50276 SE-46



### Spacial S3D 6G K3 solutions for nuclear applications

Characteristics	Spacial S3D 6G K3
	Seismic application for nuclear power station.
Material	Steel
Supply	<b>Body</b> <ul style="list-style-type: none"> <li>■ Monobloc casing (cross structure). Gutter-shaped front profile. Flat back</li> <li>■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing</li> <li>■ Entry flange</li> <li>■ Maximum load: 10 kg</li> </ul> <b>Door</b> <ul style="list-style-type: none"> <li>■ Plain door with EDF 1600 captive key lock</li> <li>□ H &lt; 600: 1 fastening point</li> <li>□ H ≥ 600: 3 fastening points</li> <li>■ Non-reversible door (for reversibility, please contact us)</li> <li>■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing</li> <li>■ 120° door opening</li> <li>■ Maximum load: 10 kg</li> </ul> <b>Mounting plate</b> <ul style="list-style-type: none"> <li>■ Mounting plate galvanized before mounting</li> <li>■ Maximum load: 80 kg/m<sup>2</sup></li> </ul> Two wall mounting brackets
Ingress protection rating	IP65 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Standards	IEC 62208 - IEC 60068-3-3
Certifications	<ul style="list-style-type: none"> <li>■ 6G certification as per CRT 91-C-112-00 (EDF)</li> <li>■ Meets K3 requirements in accordance with RCCE 2012</li> <li>■ EDF reference documents:               <ul style="list-style-type: none"> <li>□ CCTR paint and FNP file;</li> <li>□ RCC-E: Electrical equipment construction code;</li> <li>□ Packaging technical specification;</li> <li>□ "PMUC" (products and materials used in nuclear generating stations)</li> </ul> </li> </ul>
<b>Dimensions H x W x D (mm)</b>	<b>References</b>
300 x 250 x 150	<b>NSYS3D32515PK3</b>
400 x 300 x 200	<b>NSYS3D4320PK3</b>
600 x 500 x 250	<b>NSYS3D6525PK3</b>
700 x 500 x 250	<b>NSYS3D7525PK3</b>
800 x 600 x 300	<b>NSYS3D8630PK3</b>
1200 x 800 x 400	<b>NSYS3D12840PK3</b>

PB502763-10



PB502764-6



PB502765

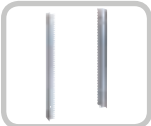





Characteristics	Locks for cubicle		Padlocking lug
	≤ H 600	> H 600	
	With captive key.	With captive key.	Securing of cubicle access.
Material	Zamak lock and metal cam	Polyamide handle, metal connecting rods and cam	White galvanized steel
Supply	1- or 3-point lock with 1 lock button and 1 cremone bolt	3-point lock with 1 lock button and 1 cremone bolt	-
<b>References</b>			<b>NSYAEDLPADS3DK3</b>
-	-	-	-
EDF 900	<b>NSYAEDLEDF9K31</b>	<b>NSYAEDLEDF9K33</b>	-
EDF 1300	<b>NSYAEDLEDF13K31</b>	<b>NSYAEDLEDF13K33</b>	-
EDF 1400	<b>NSYAEDLEDF14K31</b>	<b>NSYAEDLEDF14K33</b>	-
1242E	<b>NSYAEDL1242K31</b>	<b>NSYAEDL1242K33</b>	-
405E	<b>NSYAEDL405K31</b>	<b>NSYAEDL405K33</b>	-
455E	<b>NSYAEDL455K31</b>	<b>NSYAEDL455K33</b>	-

# Seismic and nuclear enclosures

## Accessories

### Table of Compatibility of accessories in S3D 6G K3 cubicles

Accessories		Compatibility	Comments
	Trade references impacted	Description	
PB500322-11 	NSYVDM●●●●	19" rack	Limited  Conditions: Drilling by customization department to be provided for
ISPA011_010-43 	NSYINLCRN	Door switch	Limited  Conditions: Drilling by customization department to be provided for
PB500063-29 	NSYDPA●●	Diagram holder	Yes  -
PB500338-24 	NSYAELYTCRG8	Lifting rings	Limited  Conditions: Drilling by customization department to be provided for

**Comment:** None of the accessories are certified 6G K3.

# Seismic and nuclear enclosures

Customized offer

## 1 > Special dimensions

We meet the K3 requirements as per RCCE 2012 for the special dimensions mentioned below. These dimensions appear in the Reference File.

Height	Available depths						200/250/300/400		200/250/300			
1200												
1000												
800			200/250/300		200/250/300		200/250/400		200/250/300/400			
700			200/250/300		200/300		200/250/300/400					
600			200/250/300		200/300		200/250/300/400					
500	150/200		150/200/250		200/250/300		200/250/300					
400	150/200		150/250									
300	200		150/200/250									
	250		300		400		500		600		800	

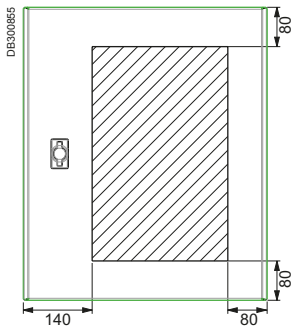
Width

## 2 > Cut-outs

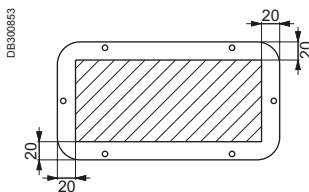
We meet the K3 requirements as per RCCE 2012 for the cut-outs mentioned below. These cut-outs appear in the Reference File.

### Customization areas ensuring K3 certification

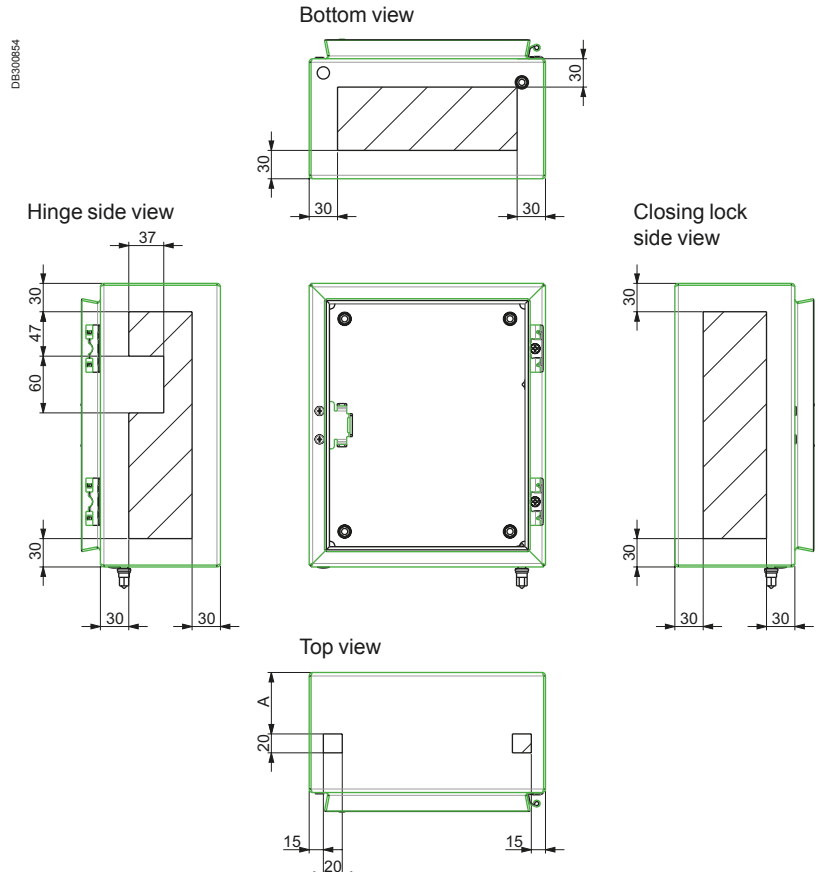
Door



Entry flange



Casing



Depth	A
150	65
200	82
250	98
300	115
400	148

# Seismic and nuclear enclosures

## Customized offer

### 3 > Paints

Referencing of the following paints in the FNP (national paint file):

AFNOR / RAL	Colors of PIA-PID 100 series
AFNOR	1550
	1570
	2550
	2570
RAL	1003
	5005
	5024
	7036

AFNOR / RAL	Colors of PIC 100 series
AFNOR	1550
	1570
	2550
	2570
RAL	1003
	5005
	5024
	7036

Others colors available: consult us.

### 4 > Packaging

We can produce a special corrosion protection packaging (Gardac type).



# Seismic and nuclear enclosures

## A demanding nuclear market



Our range of **Spacial S3D nuclear** cubicles meets the K3 requirements of RCCE 2012. The Schneider Electric cubicle production plant has established processes to ensure K3 certification.

- > Establishment of a line architecture adapted to the requirements mentioned in RCCE 2012, implying:
  - Hold points;
  - Check points;
  - Control of "AIP" activities that are important for protection
  
- > Manufacturing completion report with:
  - Declaration of conformity.
  - Monitoring document.
  - Report and test report.
  
- > Establishment of a Particular Quality Assurance Plan (PQAP)
  
- > Reference documents for the nuclear industry: RCC-E, CCTR, FNP, packaging technical specification, "PMUC" (products and materials used in nuclear generating stations), SGAQ-2013-03, Arrêté INB 2012

# Seismic and nuclear enclosures

A demanding nuclear market

## Nuclear safety has 3 objectives

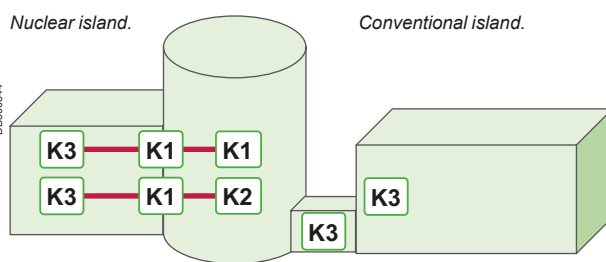


## Technical choices and safety rules

The technical choices and safety rules are stipulated by the operator with full responsibility relative to the French nuclear safety authority (ASN) (representing the state) depending on the location in the installation and whether or not they form part of the safety circuits. The products undergo tests to ensure their operation in accidental conditions.



A safety circuit consists of several equipment items. Their certification depends on their location. Equipment interfacing between the core and the other buildings is always K1 (risk of radioactive leakage).



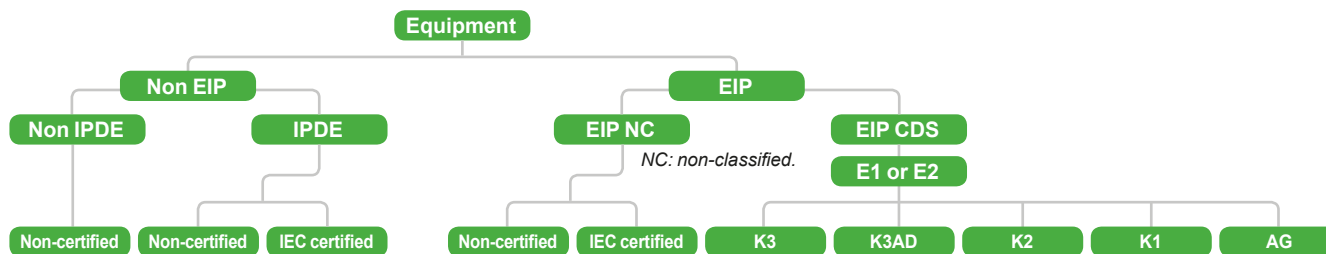
## Certifications necessary to work in the nuclear industry

2 certifications are necessary to work in the nuclear industry

- Product and equipment certifications imply demanding performances validated by technical documents and by tests. In the event of a change in the product, it must be **explained and justified** that the initial certification is maintained.
- Certifications of industrial organizations and services related to products and equipment.

The products equipping French nuclear facilities in this catalogue comply with the RCC-E 2012 standard.

## Terminology of equipment classifications used in nuclear power stations



EIP: Equipment Important for Protection.  
 IPDE: Important for operating availability.  
 CDS: safety-classified.  
 Schneider is concerned only by E1 (elec. classification).

## Tests corresponding to specific classifications for EIP equipment

- K3 > ref. tests + functional operating limits + ageing + earthquake
- K3AD > K3 + environmental resistance (irradiation, heat, spraying)
- K2 > K3 + resistance to ageing irradiation (250 Kgy)
- K1 > K2 + resistance to accidental irradiation (600 Kgy) + ADR
- AG > K1 reinforced only for EPR power stations





# Electronic application Introduction

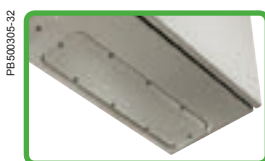
## > Spacial VDM



### Simplified installation

Pre-installed fixed or swing rack; earth connection placed between the door and the body; the enclosure is ready to use; the cardboard packaging can be reused after cabling.

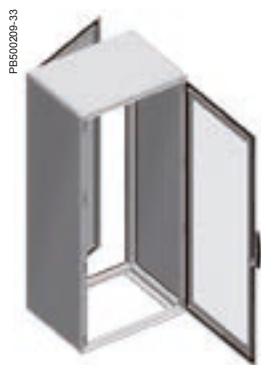
## > Spacial CRN



### Practical

Cable-gland plates at top and bottom:  
 ■ on the rear part (2-body enclosure),  
 ■ on the body (1-body enclosure).

## > Spacial SF



### Suitable metal enclosure

Enclosure prepared for the installation of standard 19" racks in professional telecommunication, voice, data and electronic facilities, by means of 19" fixed and swing racks, see page 413.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

# Electronic application

## Characteristics

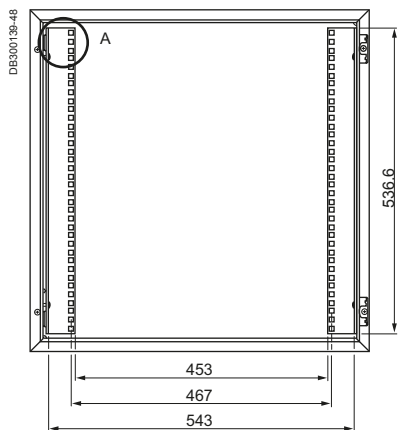


Characteristics				Spacial VDM 19"		
				1-body	2-bodies	
				<ul style="list-style-type: none"> <li>Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped.</li> <li>Perforated rails on the door, with drill holes of Ø 4.2 mm in steps of 25 mm.</li> <li>Transparent door, Securit® glass, easily removable and reversible, with 20-mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges. Three closure points for heights of more than 600 mm.</li> <li>Polyurethane gasket.</li> <li>6 mm² earth connection placed between the door and the body of the enclosure.</li> </ul>		
Material				Steel		
Finish				Structured finish, epoxi-polyester powder		
Colour				RAL 7035 grey		
Ingress protection rating				IP66 according to IEC 60529		
Mechanical protection rating				IK08 according to IEC 62262		
Maximum load				3 kg per unit		2 kg per unit
Other characteristics				<ul style="list-style-type: none"> <li>Enclosure in 2 pieces: body + door</li> <li>Cable-gland plate at the bottom of the enclosure</li> <li>Fixed rack depth-adjustable in steps of 25 mm using the step slides</li> </ul>		<b>Rear</b> <ul style="list-style-type: none"> <li>Depth: 150 mm</li> <li>Internal attachment point for fixing various supports</li> <li>Hinges and locking system with the body</li> <li>Cable-gland plate at the top and bottom on the rear part</li> </ul> <b>Body</b> <ul style="list-style-type: none"> <li>Usable depth of 183 or 283 mm</li> <li>Two 19" uprights made from treated steel, installed 65 mm back from the front panel</li> <li>Intermediate body installed on the rear with 120° hinge</li> </ul>
Supply				Wall-mounting enclosure supplied with 3-mm double-bar lock as standard		Wall-mounting enclosure supplied with 3-mm double-bar lock as standard
Height (mm)	Width (mm)	Depth (mm)	Number of U	Fixed rack	Swing rack	Fixed rack
300	600	380	5	-	-	NSYVD2M5U4
		400	4	-	NSYVDM4U4P	-
		400	5	NSYVDM5U4F	-	-
		480	5	-	-	NSYVD2M5U5
		500	5	-	-	-
400	600	380	8	-	-	NSYVD2M8U4
		400	7	-	NSYVDM7U4P	-
		400	8	NSYVDM8U4F	-	-
		480	8	-	-	NSYVD2M8U5
		500	8	-	-	-
500	600	380	10	-	-	NSYVD2M10U4
		400	9	-	NSYVDM9U4P	-
		400	10	NSYVDM10U4F	-	-
		480	10	-	-	NSYVD2M10U5
		500	10	-	-	-
700	600	380	14	-	-	NSYVD2M14U4
		400	13	-	NSYVDM13U4P	-
		400	14	NSYVDM14U4F	-	-
		480	14	-	-	NSYVD2M14U5
		500	14	-	-	-
800	600	380	17	-	-	NSYVD2M17U4
		400	16	-	NSYVDM16U4P	-
		400	17	NSYVDM17U4F	-	-
		480	17	-	-	NSYVD2M17U5
		500	17	-	-	-

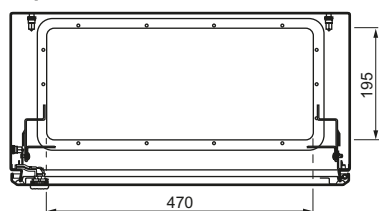
# Electronic application Dimensions

## 1-body 19" enclosure

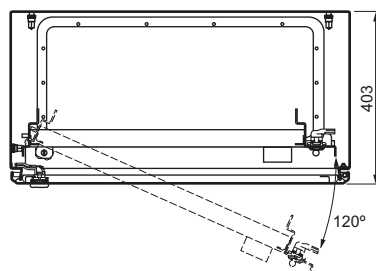
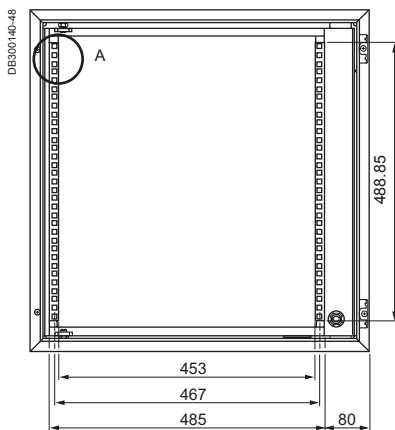
### Fixed chassis



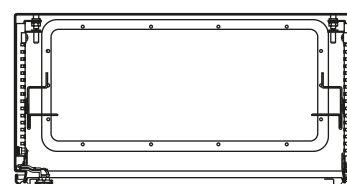
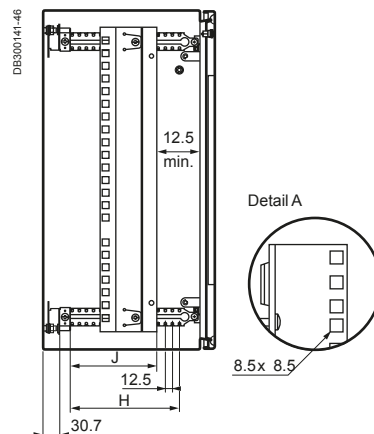
### Top view



### Swing chassis



### Fixed chassis mounted on the step slides



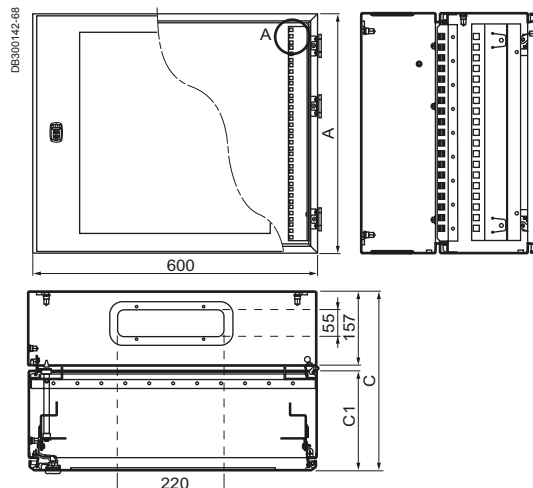
Cable-gland plate 495 x 220 mm.

H (bars) (mm)	J (travel) (mm)
200	100
250	150
300	200
400	300

## 2-body 19" enclosure

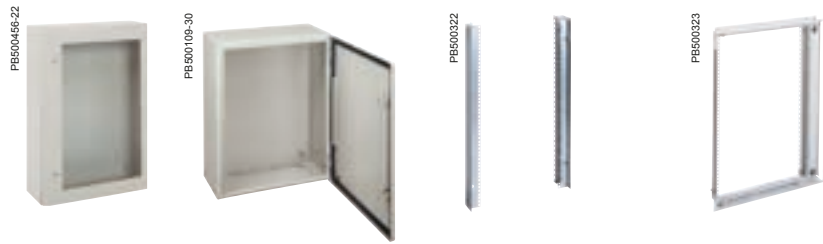
A (mm)	C (mm)	C1 (mm)	References
300	373	183	NSYVD2M5U4
400	373	183	NSYVD2M5U5
500	373	183	NSYVD2M8U4
700	373	183	NSYVD2M8U5
800	373	183	NSYVD2M10U4
300	473	283	NSYVD2M10U5
400	473	283	NSYVD2M14U4
500	473	283	NSYVD2M14U5
700	473	283	NSYVD2M17U4
800	473	283	NSYVD2M17U5

Cable-gland plate S3D type dimensions 245 x 80 mm.



# Electronic applications

## Characteristics



Characteristics			Spacial CRN					
			Empty enclosure		Fixed rack (1)		Swing rack (1)	
			39 dimensions for this metal monobloc. Back piece joined to the sides using a special profile forming a protected sealed area.		19" fixed chassis comprising 2 19" uprights with fixing. ■ Thickness: 20/10 mm. ■ Adjustable in depth by fixing on the step slides in accessories.		19" swing chassis opening to 120° with closure by 3 mm double bar insert.	
Material			Steel		Galvanized steel		Steel	
Finish			Both externally and internally painted with texturised epoxy-polyester resin		-		Epoxy-polyester powder	
Colour			RAL 7035 grey		-		RAL 7035 grey	
Ingress protection rating			<ul style="list-style-type: none"> <li>■ IP66 for one-door enclosures</li> <li>■ IP55 for two-door enclosures according to IEC 60529</li> </ul>		-		-	
Mechanical protection rating			IK10 according to IEC 62262		-		-	
Maximum load			50 kg/m <sup>2</sup>		3 kg per unit		3 kg per unit	
Installation			<ul style="list-style-type: none"> <li>■ Given their strength, metal enclosures are particularly well suited to indoor areas where they may experience impacts</li> <li>■ Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure</li> </ul>		-		-	
Supply			Delivered with a reusable packaging and technical instructions		-		-	
Height (mm)	Width (mm)	Depth (mm)	Glazed door	Plain door	Number of U		Number of U	
400	600	250	NSYCRN46250T	NSYCRN46250	8	NSYVDM8UF	7	NSYVDM7UP
		300	NSYCRN46300T	NSYCRN46300	8	NSYVDM8UF	7	NSYVDM7UP
600	600	200	NSYCRN66200T	NSYCRN66200	12	NSYVDM12UF	11	NSYVDM11UP
		250	NSYCRN66250T	NSYCRN66250	12	NSYVDM12UF	11	NSYVDM11UP
		300	NSYCRN66300T	NSYCRN66300	12	NSYVDM12UF	11	NSYVDM11UP
800	600	200	NSYCRN86200T	NSYCRN86200	17	NSYVDM17UF	16	NSYVDM16UP
		250	NSYCRN86250T	NSYCRN86250	17	NSYVDM17UF	16	NSYVDM16UP
		300	NSYCRN86300T	NSYCRN86300	17	NSYVDM17UF	16	NSYVDM16UP
		400	NSYCRNG86400T	NSYCRNG86400	17	NSYVDM17UF	16	NSYVDM16UP
1000	600	250	NSYCRN106250T	NSYCRN106250	21	NSYVDM21UF	20	NSYVDM20UP
		300	NSYCRN106300T	NSYCRN106300	21	NSYVDM21UF	20	NSYVDM20UP
		400	NSYCRNG106400T	NSYCRNG106400	21	NSYVDM21UF	20	NSYVDM20UP
	800	250	NSYCRN108250T	NSYCRN108250	-	-	20	NSYVDM20U8P
		300	NSYCRN108300T	NSYCRN108300	-	-	20	NSYVDM20U8P
		400	NSYCRNG108400T	NSYCRNG108400	-	-	20	NSYVDM20U8P
1200	800	300	NSYCRNG128300T	NSYCRNG128300	-	-	25	NSYVDM25U8P
		400	NSYCRNG128400T	NSYCRNG128400	-	-	25	NSYVDM25U8P

(1) The racks are to be ordered separately.

(2) From the height of 800 mm.

# Electronic application

## Accessories overview

### Composition accessories

#### Fixing lugs



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#### Post-fixing device



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### Door accessories

#### Locks



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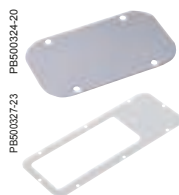
#### Padlock



Page 65

### Cable-entry accessories

#### Cable-gland plates for Spacial CRN enclosure



Page 66

#### ISO cable glands



Page 258

#### Multiple cable entry



Page 251

# Electronic application Accessories overview

## Composition accessories

### Plinth-fixing device



Page 61

### Canopy



Page 63

## Door accessories

### Door retainer



Page 274

### Door switch



Page 272

### Door rails



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### Earthing systems



Page 278

## Mounting accessories

### 19" fixed and swing racks



Page 413

## Thermal accessories

### Ventilation systems



Page 526

### Thermal control



Page 563

### Ventilation systems



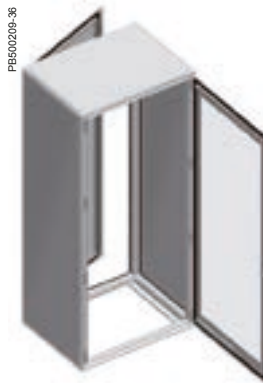
Page 498

### Insulated resistance heaters



Page 558

# Electronic application Characteristics



Characteristics	Spacial SF 19" electronic enclosure
-----------------	-------------------------------------

- Structure: top and bottom frame and vertical uprights.
- Transparent front door with Securit® glass.
- Plain rear door.
- Standard locking system with handle and 5-mm double-bar insert.
- Removable roof.
- External fixing side panels double folded to increase their rigidity with captive fixing screws that reduce installation time.
- In enclosures with widths of 600 and 800 mm, it is possible to install fixed or swing racks, to be ordered separately.

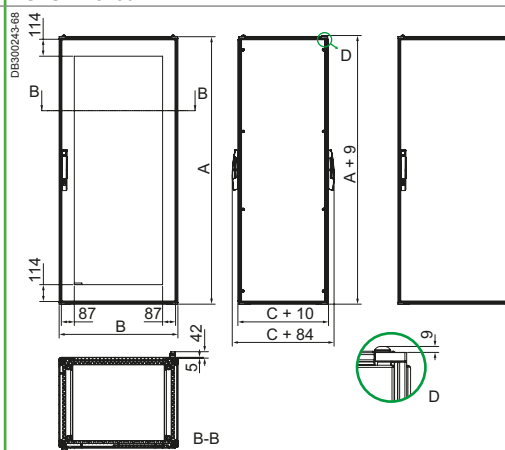
Material	Steel
----------	-------

Finish	Structured finish, epoxy-polyester powder
--------	---

Colour	RAL 7035 grey
--------	---------------

Certifications	UL 508A Types 1, 12 and CUL
----------------	-----------------------------

Height (A)	Width (B)	Depth (C)	References
1200	600	600	NSYSF12660E
		800	NSYSF12680E
	800	600	NSYSF12860E
		800	NSYSF12880E
2000	600	600	NSYSF20660E
		800	NSYSF20680E
	800	600	NSYSF20860E
		800	NSYSF20880E
		1000	NSYSF208100E
2200	600	600	NSYSF22660E
		800	NSYSF22680E
		1000	NSYSF226100E
	800	600	NSYSF22860E
		800	NSYSF22880E
		1000	NSYSF228100E





# Electronic application

## Accessories

### Door



Characteristics		Single ventilated door for 19" racks
		<ul style="list-style-type: none"> <li>■ Door designed to achieve natural ventilation of the enclosure.</li> <li>■ Installation on enclosures with a width of 800 mm, equipped with centred fixed or swing racks. Opening of 120°.</li> <li>■ Standard locking system with handle and 5-mm double-bar insert.</li> </ul>
Material		Steel
Finish		Structured finish, epoxy-polyester powder
Colour		RAL 7035 grey
Supply		1 ventilated door for racks
Height (mm)	Width (mm)	Single ventilated door
1200	600	<b>NSYPCVD126</b>
	800	<b>NSYPCVD128</b>
1400	800	<b>NSYPCVD148</b>
1600	800	<b>NSYPCVD168</b>
1800	800	<b>NSYPCVD188</b>
2000	600	<b>NSYPCVD206</b>
	800	<b>NSYPCVD208</b>
2200	600	<b>NSYPCVD226</b>
	800	<b>NSYPCVD228</b>

# Electronic application Accessories

## Plinth

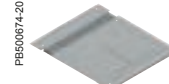
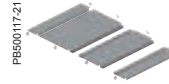
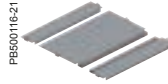
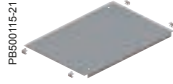


Characteristics	Front plinth	Plinth side panels	Ventilated front plinth	Ventilated plinth side panels			
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.	The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.	They are fixed to the corner of the plinth by fixing screws.			
Material	Folded sheet steel, corner with a thickness of 25/10° mm	Folded sheet steel	Folded sheet steel, corner with a thickness of 25/10° mm	Folded sheet steel			
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder			
Colour	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey			
Ingress protection rating	IP30 according to IEC 60529	IP30 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529			
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262			
Supply	<ul style="list-style-type: none"> <li>■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements</li> <li>■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements</li> </ul>	<ul style="list-style-type: none"> <li>■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements</li> <li>■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements</li> </ul>	<ul style="list-style-type: none"> <li>■ Height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements</li> </ul>	<ul style="list-style-type: none"> <li>■ Height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements</li> </ul>			
<b>References</b>							
<b>Width (mm)</b>	<b>Depth (mm)</b>	<b>100 mm</b>	<b>200 mm</b>	<b>100 mm</b>	<b>200 mm</b>	<b>100 mm</b>	<b>100 mm</b>
600	600	NSYSPF6100	NSYSPF6200	NSYSPS6100	NSYSPS6200	NSYSPFV6100	NSYSPV6100
	800			NSYSPS8100	NSYSPS8200		NSYSPV8100
	1000			NSYSPS10100	NSYSPF10200		-
800	600	NSYSPF8100	NSYSPF8200	NSYSPS6100	NSYSPS6200	NSYSPFV8100	NSYSPV6100
	800			NSYSPS8100	NSYSPS8200		NSYSPV8100
	1000			NSYSPS10100	NSYSPF10200		-

# Electronic application

## Accessories

### Cable-gland plates



Characteristics	Plain	With 1 entry	With 2 entries	Ventilated	
	Maximum compact water/dustproof design.	Facilitates the entry of cables thanks to a longitudinal opening.	Cable entry for very deep enclosures (600 and 800 mm). Two longitudinal openings allowing a large number of cables through.	Plates for cable entry from the bottom of the enclosure. Each plate has a hole with an 8-mm diameter, covered with a plug, for cases in which earthing needs to be performed by an earthing cable or braid (elements not supplied).	
Material	Galvanised steel			Galvanised steel	
Thickness	15/10° mm			15/10° mm	
Fixing	Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip				
Ingress protection rating	< IP55				
Supply	Plain plate and fixing elements	Plate with 1 entry; self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantees good sealing) and fixing elements	1 plate with 2 entries; polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantee good sealing) and fixing elements	Ventilated plate with 1 entry, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, and fixing elements	
Width (B)	Depth (C)	References			
600	600	NSYEC66	NSYEC661	NSYEC662	NSYECV661
	800	NSYEC68	NSYEC681	NSYEC682	NSYECV681
	1000	NSYEC610	NSYEC6101	NSYEC6102	NSYECV6101
800	600	NSYEC86	NSYEC861	NSYEC862	NSYECV861
	800	NSYEC88	NSYEC881	NSYEC882	NSYECV881
	1000	NSYEC810	NSYEC8101	NSYEC8102	NSYECV8101

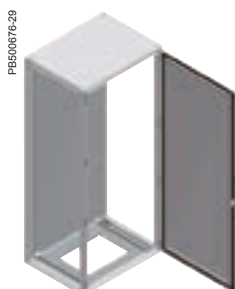
# Electronic application

## Accessories

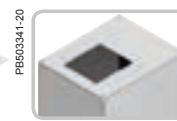
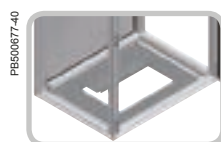
### Top and bottom cable-gland plate supports



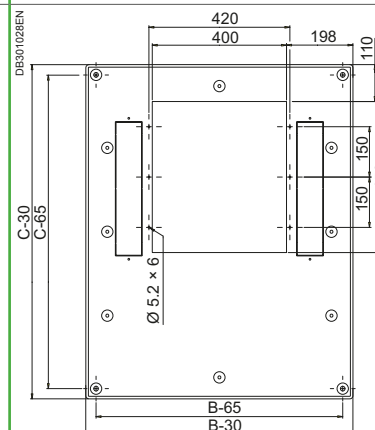
Enclosure width 600 mm.



Enclosure width 800 mm.

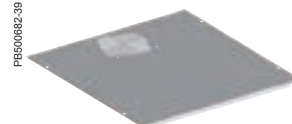


Characteristics		Cable-gland support for Actassi plate	Roof for Actassi plates
		Support for cable entry from the bottom of the enclosure. Allows the installation of Actassi cable-gland accessories.	Roof prepared for installing Actassi roof accessories. Suitable for enclosures with widths of 800 mm.
Material		Galvanised steel	Steel
Finish		-	Structured finish, epoxy-polyester powder
Colour		-	RAL 7035 grey
Thickness		15/10 <sup>ø</sup> mm	-
Fixing		Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip. <ul style="list-style-type: none"> <li>■ Enclosure width 600 mm: the Actassi plate is fixed by C-shape clips directly to the enclosure.</li> <li>■ Enclosure width 800 mm: the Actassi plate is fixed on the support plate.</li> </ul>	-
Supply		<ul style="list-style-type: none"> <li>■ Enclosure width 600 mm: 2 plates and fixing elements</li> <li>■ Enclosure width 800 mm: 1 support plate and fixing elements</li> </ul>	1 roof with central cut-out and side pre-cuts
Width (B) (mm)	Depth (C) (mm)	References	
-	-	-	
600	600	NSYCECS66	
	800	NSYCECS68	
	1000	NSYCECS610	
800	600	NSYCECS86	
	800	NSYCECS88	
	1000	NSYCECS810	
			NSYSRSYS86 NSYSRSYS88 NSYSRSYS810



# Electronic application Accessories

## Top and bottom cable-gland plate solutions



Actassi plain plate for roof	Actassi plate with brush gasket for roof	Actassi ventilated plate for roof
Removable plate made from folded sheet steel, to be installed on roof ref. <b>NSYSRSYS8•</b> . Option of installing roof elevators for aeration, ref. <b>NSYEX206</b> , and cable glands.	Removable folded sheet-steel plate, equipped with a gasket with cable-gland brush, to be installed on roof ref. <b>NSYSRSYS8•</b> . Optional installation of roof elevators for aeration, ref. <b>NSYEX206</b> , and cable-gland plates.	Removable plate made from folded sheet steel, to be installed on roof ref. <b>NSYSRSYS8•</b> . Optional installation of roof elevators for aeration, ref. <b>NSYEX206</b> , cable-gland plates and fans.
Steel	Steel	Steel
Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
-	-	-
-	-	-
1 plain plate and fixing elements	1 plate with brush gasket and fixing elements	1 ventilated plate and fixing elements

NSYTSPC450	NSYTSP450	NSYTSPV450
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

PB500344-32



### Roof plate elevators for aeration



- Columns with a height of 20 mm.
- **Fixing:** between the roofplate and the roof.
- **Supply:** 100 units. Reference by unit.  
Order by multiples of 100 (100, 200, 300...).

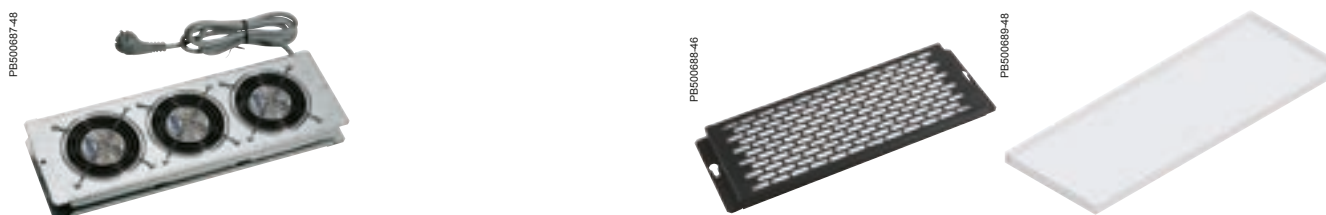
Reference  
NSYEX206

# Electronic application Accessories

## Top and bottom cable-gland plate solutions



Characteristics	Actassi plain cable-gland plate	Actassi cable-gland plate with brush	Actassi self-ventilated cable-gland plate
Material	Galvanised steel	Galvanised steel	Galvanised steel
Fixing	<ul style="list-style-type: none"> <li>Fixing on the outside of the roof and bottom support plate</li> <li>Can be combined with other types of cable-gland plates</li> </ul>	<ul style="list-style-type: none"> <li>Fixing on the outside of the roof and bottom support plate</li> <li>Can be combined with other types of cable-gland plates</li> </ul>	<ul style="list-style-type: none"> <li>Fixing on the outside of the roof and bottom support plate</li> <li>Can be combined with other types of cable-gland plates</li> </ul>
Supply	1 plain cable-gland plate and fixing elements	1 cable-gland plate with brush and fixing elements	1 self-ventilated cable-gland plate and fixing elements
References	<b>NSYEC440</b>	<b>NSYEC440</b>	<b>NSYEC440</b>



Characteristics	Actassi ventilation plate with or without fans, symbol diameter before 120 mm	Actassi ventilated support with filter	Spare filter for Actassi ventilated support												
Fixing	<ul style="list-style-type: none"> <li>Fixing on the outside of the roof and bottom support plate</li> <li>Can be combined with other types of cable-gland plates</li> </ul>	To be mounted on the cable-gland plate with or without fan or on the self-ventilated cable-gland plate.	-												
Other characteristics	Sound level: 34 dB (A)	Colour RAL 9011	-												
Supply	<ul style="list-style-type: none"> <li>1 cable-gland plate with or without fans, 2-m power cord (version with fans) and fixing elements</li> <li>Versions with 2 or 3 fans: each of them has an output capacity of 170 m³/h, 220 V-50/60 Hz, installed and wired to a terminal strip. A 2-m power cord is supplied connected</li> </ul>	1 mounting support and filter	5 units												
References	<table border="1"> <thead> <tr> <th>Description</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>No fans, 3 positions</td> <td><b>NSYECVT3440</b></td> </tr> <tr> <td>With 3 fans</td> <td><b>NSYECVT3V440</b></td> </tr> <tr> <td>No fans, 2 positions</td> <td><b>NSYECVT2440</b></td> </tr> <tr> <td>With 2 fans</td> <td><b>NSYECVT2V440</b></td> </tr> </tbody> </table>	Description	References	No fans, 3 positions	<b>NSYECVT3440</b>	With 3 fans	<b>NSYECVT3V440</b>	No fans, 2 positions	<b>NSYECVT2440</b>	With 2 fans	<b>NSYECVT2V440</b>	<table border="1"> <thead> <tr> <th>References</th> </tr> </thead> <tbody> <tr> <td><b>NSYFECVT440</b></td> </tr> </tbody> </table>	References	<b>NSYFECVT440</b>	<b>NSYCEFILS</b>
Description	References														
No fans, 3 positions	<b>NSYECVT3440</b>														
With 3 fans	<b>NSYECVT3V440</b>														
No fans, 2 positions	<b>NSYECVT2440</b>														
With 2 fans	<b>NSYECVT2V440</b>														
References															
<b>NSYFECVT440</b>															

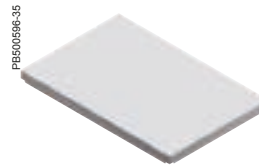


### Examples of possible combinations Actassi cable-gland plates for the roof and bottom support

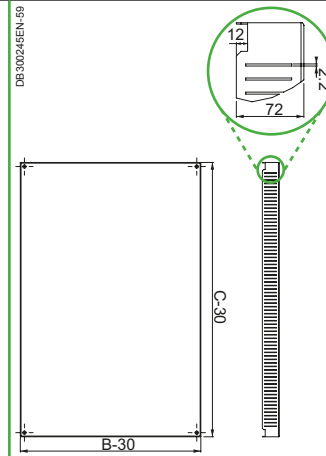
Spacial SF dimensions		Combination 1	Combination 2
Width (mm)	Depth (mm)		
600/800	600		
	800		
	1000		

# Electronic application Accessories

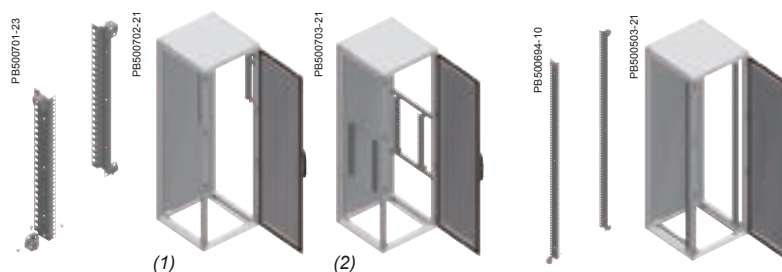
## Top and bottom cable-gland plate solutions



Characteristics		Ventilated roof
		Roof for providing natural ventilation for the enclosure, with IP30 protection. Height: an extra 63 mm in relation to the structure.
Material		Steel
Finish		Structured finish, epoxy-polyester powder
Colour		RAL 7035 grey
Supply		1 ventilated roof and fixing elements
<b>Width (B) (mm)</b>	<b>Depth (C) (mm)</b>	<b>References</b>
600	600	<b>NSYSVR606</b>
	800	<b>NSYSVR608</b>
800	600	<b>NSYSVR806</b>
	800	<b>NSYSVR808</b>



### Mounting accessories



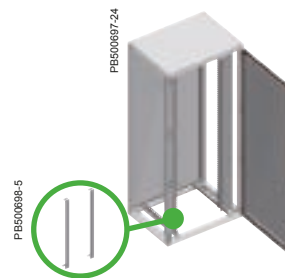
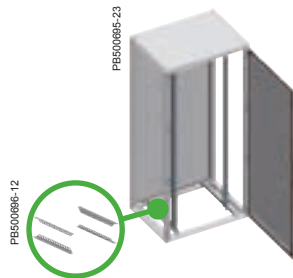
Characteristics	Partial 19" fixed rack	19" fixed rack		
	Rack designed for coupling in enclosures with a width of 600 mm. Adjustable depth with a pitch of 25 mm.	Rack designed for installation in enclosures with a width of 600 mm. Adjustable depth with a pitch of 25 mm.		
Material	Zinc-coated steel	Zinc-coated steel		
Installation	Installation options: <b>■ Spacial SF:</b> <input type="checkbox"/> Installation at the top front of the enclosure, no cross rails needed (1) <input type="checkbox"/> Depth adjustment of the partial rack: two cross rails need to be installed, see page 223 <input type="checkbox"/> For installation at any other height, four cross rails are required (2) <b>■ Spacial SM:</b> <input type="checkbox"/> At the front of the enclosure (1): install two front vertical adaptation profiles, see page 227 <input type="checkbox"/> For depth adjustment (2): install two front vertical adaptation profiles, see page 227 and two rear vertical 40 mm (1 row) cross-rails and four cross-rails, see page 223	Installation options: <b>■ Spacial SF:</b> direct fixing on the structure of the enclosures: <input type="checkbox"/> for installation on enclosures with a width of 800 mm, use the 19" fixed-rack support brackets, <input type="checkbox"/> to reinforce the rigidity of the uprights in enclosures with a width of 800 mm, it is advisable to use the central fixing kit, for enclosure heights above 1800 mm, ref. <b>NSYRCK19KIT</b> . <b>■ Spacial SM:</b> fixing on the top/bottom adjustment rails.		
Maximum load	2 kg/U	400 kg		
Supply	2 uprights and fixing elements	2 uprights and fixing elements		
Height (H) (mm)	No. of units	References	No. of units	References
200	4	<b>NSYRCKP4</b>	-	-
400	8	<b>NSYRCKP8</b>	-	-
600	12	<b>NSYRCKP12</b>	-	-
800	17	<b>NSYRCKP17</b>	-	-
1000	21	<b>NSYRCKP21</b>	-	-
1200	26	<b>NSYRCKP26</b>	24	<b>NSYRCK24</b>
1400	-	-	29	<b>NSYRCK29</b>
1600	-	-	33	<b>NSYRCK33</b>
1800	-	-	38	<b>NSYRCK38</b>
2000	-	-	42	<b>NSYRCK42</b>
2200	-	-	47	<b>NSYRCK47</b>



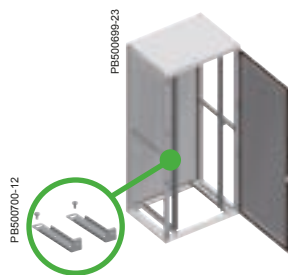
# Electronic application

## Accessories

### Mounting accessories

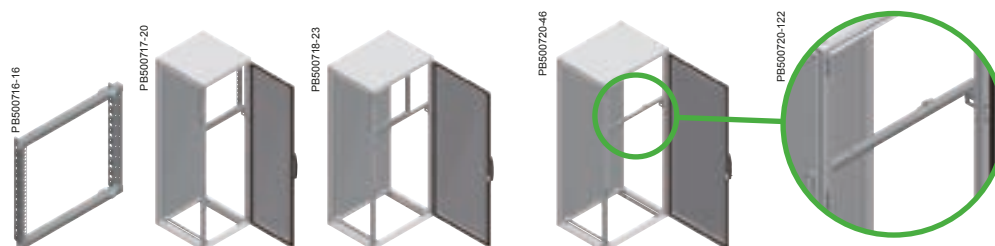


Characteristics		Support brackets for 19" fixed rack with a width of 800 mm	Side plates of the centred fixed rack for a width of 800 mm
		Support brackets for coupling the fixed rack to enclosures with a width of more than 600 mm. They allow the depth of the fixed rack to be adjusted with a pitch of 25 mm. The fixed amounts are delivered in pairs.	Side plates for coupling to the fixed rack in enclosures with a width of 800 mm. Direct installation on the rack by screws. The fixed amounts are delivered in pairs.
Material		Zinc-coated steel	Steel
Finish		-	Structured finish, epoxy-polyester powder
Colour		-	RAL 7035 grey
Maximum load		400 kg	-
Supply		4 support brackets and fixing elements	2 side plates and fixing elements
Height (H) (mm)	Depth (mm)	References	References
1200	-	-	<b>NSYRC12</b>
1400	-	-	<b>NSYRC14</b>
1600	-	-	<b>NSYRC16</b>
1800	-	-	<b>NSYRC18</b>
2000	-	-	<b>NSYRC20</b>
2200	-	-	<b>NSYRC22</b>
-	600	<b>NSYRCKS6</b>	-
-	800	<b>NSYRCKS8</b>	-
-	1000	<b>NSYRCKS10</b>	-



Characteristics		Central fixing kit
		To reinforce the rigidity of the 19" fixed racks in enclosures with a width of 800 mm. Fixing to the enclosure by cross rails or light cross rails installed depthwise. See page 225.
Material		Zinc-coated steel
Supply		2 supports and fixing elements
References		<b>NSYRCK19KIT</b>

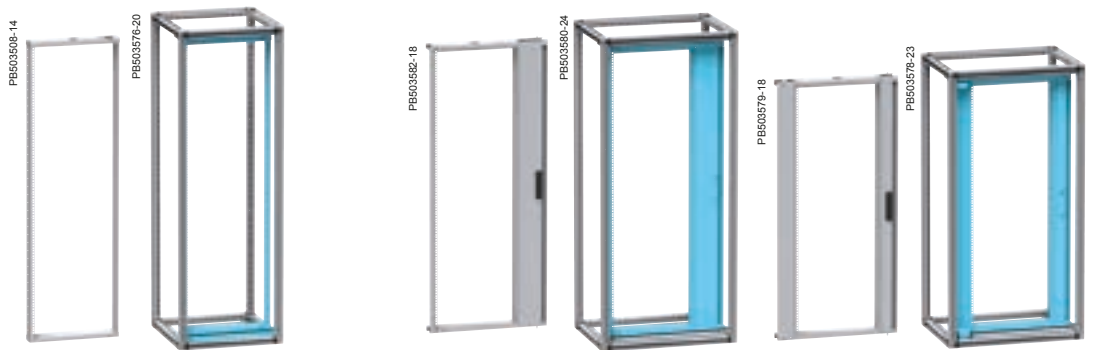
## Mounting accessories



Characteristics	Partial 19" swing rack for 600 and 800 mm enclosures	Partial 19" swing rack support for 600 and 800 mm enclosures
	<p>Rack for coupling to enclosures with widths of 600 and 800 mm. In enclosures with a width of 800 mm, the rack can be installed centred or offcentre. Maximum opening: 120°. Reversible opening direction: left/right. Locking system, top and bottom, with 5 mm double-bar key. The 6 and 9 units racks only with bottom lock. Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm.</p>	<p>Supports for coupling the partial swing rack to enclosures with widths of 600 and 800 mm. Height or depth adjustment, with a pitch of 25 mm, by two 65 mm (2 rows) universal cross rails and a 19" multiple bracket, ref. <b>NSYMBR19</b>.</p> <ul style="list-style-type: none"> <li>■ <b>Spacial SF</b>: direct fixing to the structure.</li> <li>■ <b>Spacial SM</b>: fixing to the enclosure by means of the vertical adaptation profile, see page 227.</li> </ul>
Material	Zinc-coated steel	Zinc-coated steel
Installation	<ul style="list-style-type: none"> <li>■ <b>Spacial SF</b>:                             <ul style="list-style-type: none"> <li>□ To install at the front at any height of the enclosure: directly to the framework by rack fixing elements</li> <li>□ For depth adjustment: install two (for top height) or four (for any height) 65 mm (2 rows) cross rails, see page 223</li> </ul> </li> <li>■ <b>Spacial SM</b>:                             <ul style="list-style-type: none"> <li>□ To install at the front at any height of the enclosure: install two front vertical adaptation profiles, see page 227</li> <li>□ For depth adjustment: install two front vertical adaptation profiles, see page 227 and two rear vertical 40 mm cross-rails and four 65 mm (2 rows) cross-rails, see page 223</li> </ul> </li> </ul>	Installation of the rack in centred or off-centre position, for enclosures with a width of 800 mm
Maximum load	2 kg/U	-
Supply	1 partial 19" swing rack	2 supports and fixing elements
<b>Dimensions</b>	<b>No. of units (H)</b>	<b>References</b>
<b>Height (mm)</b>		<b>References</b>
355	6	<b>NSYRSWP6</b>
468	9	<b>NSYRSWP9</b>
601	12	<b>NSYRSWP12</b>
735	15	<b>NSYRSWP15</b>
868	18	<b>NSYRSWP18</b>
1002*	21	<b>NSYRSWP21</b>
<b>Width (mm)</b>		
600	-	<b>NSYRSWSP6</b>
800	-	<b>NSYRSWSP8</b>
	<p>Partial 19" swing rack for enclosures with a width of 600 mm.</p> <p>Partial 19" swing rack, off-centre and centred, for enclosures with a width of 800 mm.</p>	<p><b>19" multiple bracket</b></p> <ul style="list-style-type: none"> <li>■ Bracket for fixing 65 mm universal cross rails (2 rows), depthwise, to position the partial 19" swing rack in any direction, up and down and/or depthwise.</li> <li>■ <b>Material</b>: zinc-coated steel.</li> <li>■ <b>Supply</b>: 4 brackets and fixing elements.</li> </ul> <p><b>Reference</b> <b>NSYMBR19</b></p>

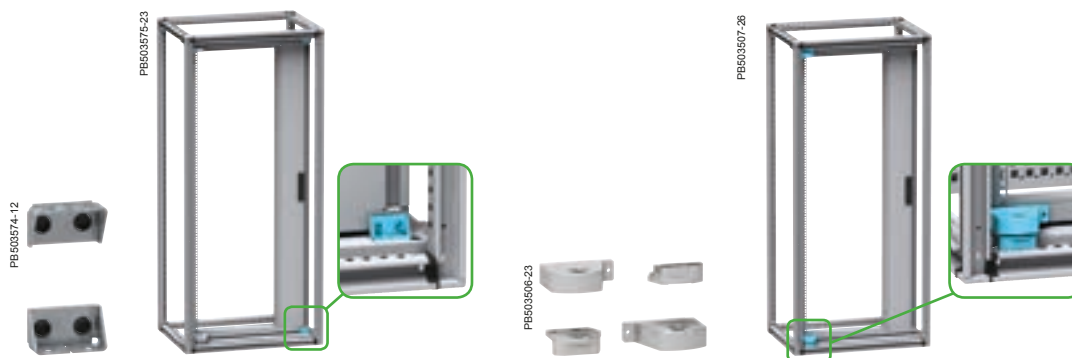
\* Optional installation in enclosures with height of 1200 mm.

## Mounting accessories



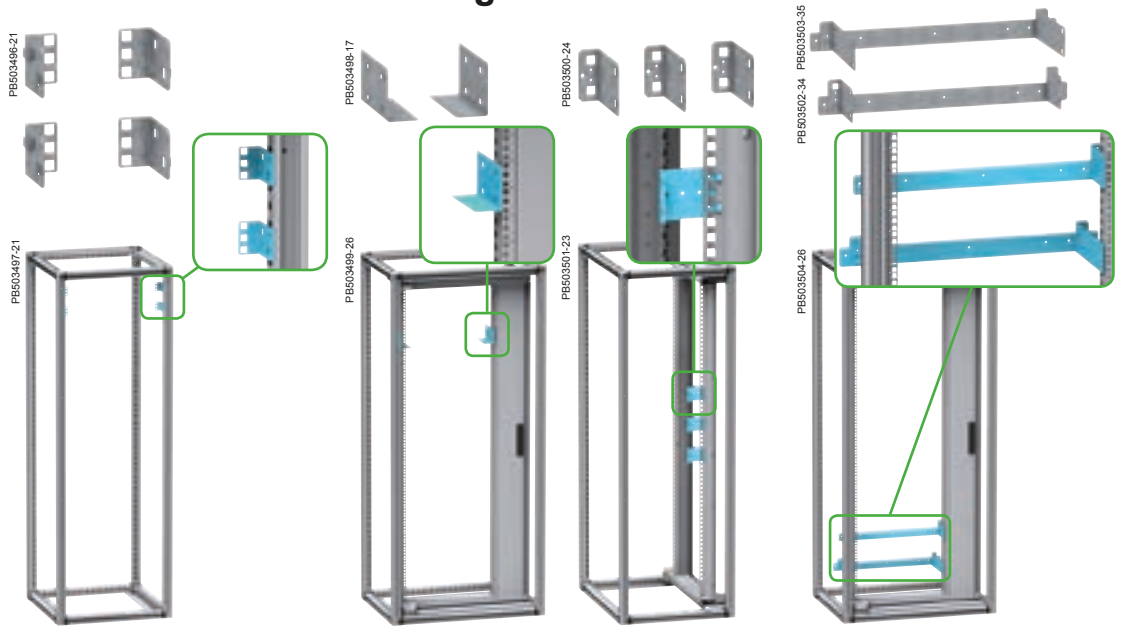
Characteristics		19" swing rack for 600 mm enclosures		19" swing racks for 800 mm enclosures	
		To be coupled to enclosures with widths of 600 mm. Can be moved depthwise with a pitch of 25 mm. Reversible opening direction: left/right. Locking system, top and bottom, with 5-mm double-bar key. <ul style="list-style-type: none"> <li>■ Maximum opening: 130°.</li> <li>■ Maximum equipment installation depth: 180 mm.</li> <li>■ Fixing to the enclosure structure:                             <ul style="list-style-type: none"> <li>□ <b>Spacial SF</b>: fixing to the enclosure structure.</li> <li>□ <b>Spacial SM</b>: fixing to the enclosure on top/bottom adjustment rails.</li> </ul> </li> <li>■ Components:                             <ul style="list-style-type: none"> <li>□ Zinc-coated steel central structure.</li> <li>□ Mounting cross-rail on structure made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws.</li> </ul> </li> </ul>		To be coupled to enclosures with widths of 800 mm. Can be moved depthwise with a pitch of 25 mm. Reversible opening direction: left/right. Locking system, top and bottom, with 5-mm double-bar key. <ul style="list-style-type: none"> <li>■ Maximum opening: 130° (possibility of opening to 180° using 180° hinges).</li> <li>■ Maximum equipment installation depth:                             <ul style="list-style-type: none"> <li>□ Off-centre 19" swing rack: 470 mm</li> <li>□ Centred 19" swing rack: 390 mm</li> </ul> </li> <li>■ Fixing to the enclosure structure:                             <ul style="list-style-type: none"> <li>□ <b>Spacial SF</b>: fixing to the entire height of the enclosure structure.</li> <li>□ <b>Spacial SM</b>: fixing to the enclosure on top/bottom adjustment rails.</li> </ul> </li> <li>■ Components:                             <ul style="list-style-type: none"> <li>□ Zinc-coated steel central structure.</li> <li>□ Mounting cross-rail on structure made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws.</li> <li>□ Side plate made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws.</li> </ul> </li> </ul>	
Material	Zinc-coated steel and steel painted				
Installation	<b>Spacial SF - SM</b> : other mounting options: consult us				
Maximum load	3.75 kg/unit with a max of 150 kg				
Supply	1 19" swing rack with no panels		Centred and off-centre 19" swing rack: hinged rack, 800-mm swing rack supports, side plates with locking system double-bar and fixing elements		
Dimensions	No. of units	References	No. of units	Off-centre 19" hinged rack	Centred 19" hinged rack
<b>Height (mm)</b>					
1400	27	<b>NSYRSW627</b>	27	<b>NSYRSW27</b>	<b>NSYRSWC27</b>
1600	31	<b>NSYRSW631</b>	31	<b>NSYRSW31</b>	<b>NSYRSWC31</b>
1800	36	<b>NSYRSW636</b>	36	<b>NSYRSW36</b>	<b>NSYRSWC36</b>
2000	40	<b>NSYRSW640</b>	40	<b>NSYRSW40</b>	<b>NSYRSWC40</b>
2200	45	<b>NSYRSW645</b>	45	<b>NSYRSW45</b>	<b>NSYRSWC45</b>

### Mounting accessories



Characteristics	19" swing rack kit transportation	180° hinge
	To carry an enclosure in <b>vertical position</b> with 19" chassis installed and equipped.	Hinge for installation on centred and off-centre 19" swing racks. Allows the swing rack to be opened to 180°. Fixing by M8 screws directly to the swing rack. Maximum equipment installation depth: <ul style="list-style-type: none"> <li>□ off-centre 19" swing rack: 425 mm,</li> <li>□ centred 19" swing rack: 345 mm.</li> </ul>
Material	Zinc-coated steel	Zamak 5
Supply	2 slide brackets and fixing elements	2 hinges and fixing elements
References	<b>NSYTRSW</b>	<b>NSYRSWH180</b>

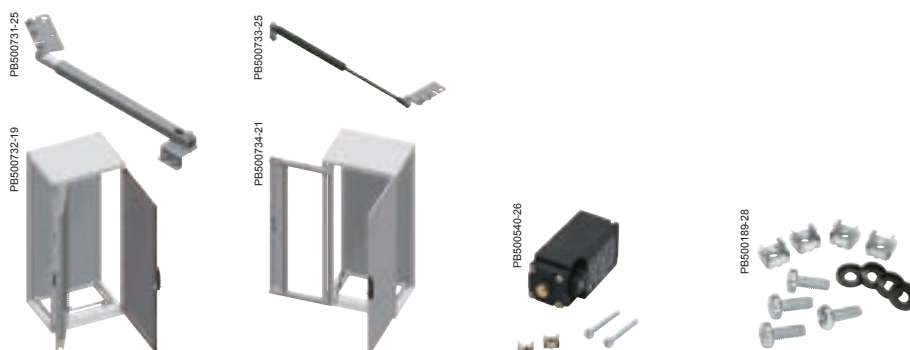
## Mounting accessories



Characteristics	1 U / 3 U support	19" partial single slides	Fixing of cable ducts on 19" racks	Rear cable-guide support	
	Support prepared for installing equipment 1 U or 3 U high. Designed with quick locking for easy installation. <ul style="list-style-type: none"> <li>■ <b>Spacial SF</b>: direct fixing to the structure.</li> <li>■ <b>Spacial SM</b>: fixing to the enclosure by means of the vertical adapter section, see page 227.</li> </ul>	Rails for installation on fixed or swing racks. Direct fixing on the structure of the enclosure, by quick locking.	Allows vertical fixing of cable ducts for cable guide. Service depth: 150 mm. Fixed by quick locking to the 19" rack profile.	Supports used for installation on the rear of the swing racks. Suitable for fixing cable-guide accessories. Allow vertical fixing of cable ducts: Adjustable depth with a pitch of 44.45 mm.	
Material	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	
Thickness	-	12/10 <sup>6</sup> mm	-	-	
Maximum load	-	15 kg	-	-	
Supply	4 1 U/3 U supports (2 units right and 2 units left) and fixing elements	2 rails and fixing elements	3 units and fixing elements	2 cable-guide supports, crossbar and fixing elements	
<b>References</b>				<b>Service depth (mm)</b>	<b>References</b>
NSYRC1U		NSYGB140	NSYRCDFIX	150	NSYRCSUP15
				250	NSYRCSUP25

# Electronic application Accessories

## Swing rack accessories



Characteristics	120° mechanical retainer	180° pneumatic retainer	Switch for swing 19" rack	Fixing elements for 19"
	Retainer for installation on the swing racks. Maximum opening: 120°.	Retainer for installation on the swing racks installed with 180° hinges, in enclosures with a depth of 600, 800 or 1000 mm. Maximum opening: 180°.	Switch for direct fixing on the bottom or top support of the swing rack. M20 connection. Open + closed contact, 10 A/500 V.	Elements required for fixing switchgear on 19" racks, made up of: ■ Screws. ■ Washers. ■ Nuts.
Fixing	Direct fixing to the rack support and the 19" rack	<b>Spacial SF:</b> fixing to the base of the structure and to the rack. <b>Spacial SM:</b> direct fixing to the rack support and to the 19" rack.	-	-
Supply	1 mechanical door stop and fixing elements	1 pneumatic door stop and fixing elements	1 19" rack switch and fixing elements	50 units of each. Reference by unit. Order by multiples of 50 (50, 100, 150...)
<b>References</b>	<b>NSYRCDR12</b>	<b>NSYRCDR18</b>	<b>NSYRCINT</b>	<b>Thread type</b> M5 M6
				<b>References</b> <b>NSYGFR95M55</b> <b>NSYGFR95M65</b>



# Electromagnetic protected steel enclosures

## Introduction

### Electromagnetic interference

#### Introduction

LV networks are highly polluted and subject to a large number of aggressions. Electrotechnical equipment and in particular electronic devices, that are increasingly numerous and process ever lower signals, must withstand a harsh electromagnetic environment. At the same time availability requirements, whether for production, management or commerce, are increasingly great.

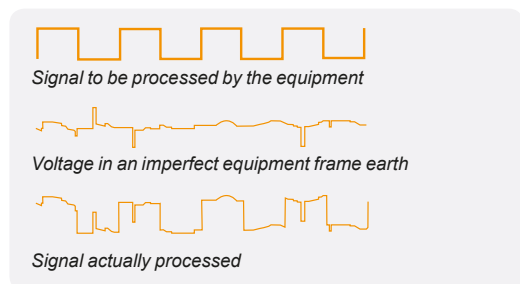
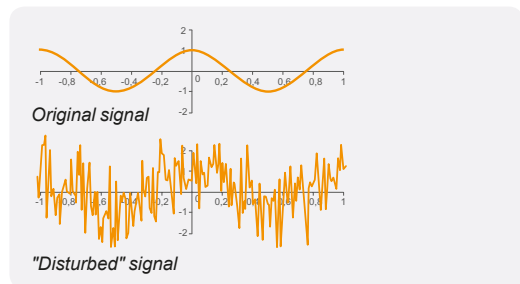
#### Definition

Any electromagnetic phenomenon capable of impairing the performance of a device, equipment or system, etc.

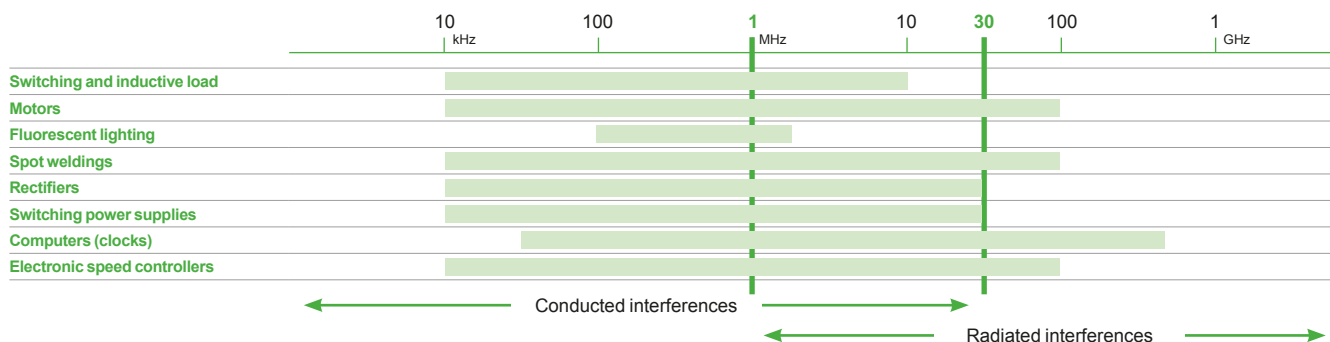
An electromagnetic disturbance can be electromagnetic noise, an unwanted signal or a change in the propagation medium itself.

An electromagnetic disturbance, as its name suggests, consists of an electric field  $\vec{E}$  generated by a potential difference and a magnetic field  $\vec{H}$  difference caused by the flow of a current  $I$  along a conductor.

**"Unwanted" electromagnetic interference is simply an unwanted electrical signal that is added to the useful signal.** This unwanted signal is propagated by conduction in conductors and by radiation in air, etc.



#### Example of devices generating interference



#### The regulations

The standards define electromagnetic compatibility (EMC) as "the ability of a device, equipment or a system to function satisfactorily in its electromagnetic environment without introducing intolerable disturbances to that environment or to other equipment".

#### Classification

In an electrical switchboard, the signals coming from these sources of disturbance will coexist with more sensitive devices. These signals may be classified as follows (Sources: IEC 61000-5-2 and IEC 60364-4-44 standards):

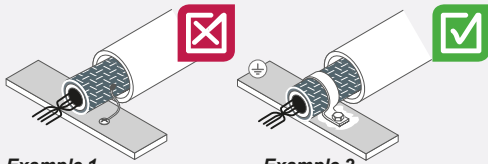
Class	Examples
1 Sensitive	<ul style="list-style-type: none"> <li>Low-level circuits with analog output units, sensors...</li> <li>Instrument circuits (probe, sensors...)</li> </ul>
2 Not very sensitive	<ul style="list-style-type: none"> <li>Control/command circuits with resistive load</li> <li>Digitalized low-level circuits (Bus...)</li> <li>Low-level circuits with on-off output unit (sensors...)</li> <li>Low-level direct power supply</li> </ul>
3 Not very disturber	<ul style="list-style-type: none"> <li>Control/command circuits with inductive load (relay, contactors, coils, inverter...) with adapted protection</li> <li>Alternating power supply</li> <li>Main power supply connected to power devices</li> </ul>
4 Disturber	<ul style="list-style-type: none"> <li>Welding machines</li> <li>Power circuit</li> <li>Drive, switch mode power supplies...</li> </ul>



# Electromagnetic protected steel enclosures

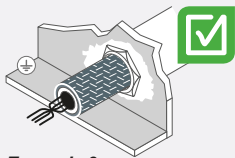
## Introduction

### Connect the shielding



**Example 1**  
Shielding connected to frame earth by a wire (pigtail) and no mechanical fastener.  
**Arrangement to be avoided.**

**Example 2**  
Shielding connected to frame earth over its entire circumference, but no mechanical fastener.  
**Acceptable arrangement.**



**Example 3**  
Shielding connected to frame earth over its entire circumference, and a mechanical fastener.  
**Recommended arrangement.**

## How to obtain EMC

### Rules to be followed: general description

The electromagnetic interference generated by devices is classified in 2 categories according to its frequency:

- Low frequency (up to 30 MHz): interference conducted by sensor cables;
- High frequency (above 1 MHz): interference radiated by a device.

The rules to be followed concern the selection and installation of the electrical installation's components. Overall, they break down as follows:

#### Conducted interferences

- Importance of the choice of architecture for the power supplies and associated protective devices.
- Use of a filter.

#### Radiated interferences

- Importance of the choice of installation rules:
  - grounding, length and cross section of cables,
  - cabling rules, choice of cable tray, connections,
  - choice and installation of the enclosure.
- Use of filters.

### Connect the shielding

This connection can remove interference to earth.

The decision to connect one or both ends to earth means priority is given to protection against low or high frequencies:

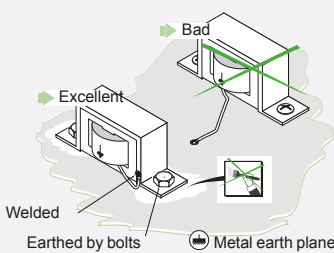
- at a single end, 50 Hz stray currents cannot flow, moderate HF protection;
- at both ends, possible presence of 50 Hz current, but the barrier against higher frequencies is strengthened.

### Isolation transformers

Isolation transformers are used to guard against high-frequency disturbances generated by the network power supply (primary circuit). An electrostatic shield is connected to earth by a short link.

This link must be free of paint and any other insulating material. Physical separation of the cables of the primary circuit (network power supply) and those of the secondary circuit (power distribution) is also essential.

### Isolation transformers



### Earth connection of metal raceways

#### Increasing the efficiency of the shielding on highly disturbing cables

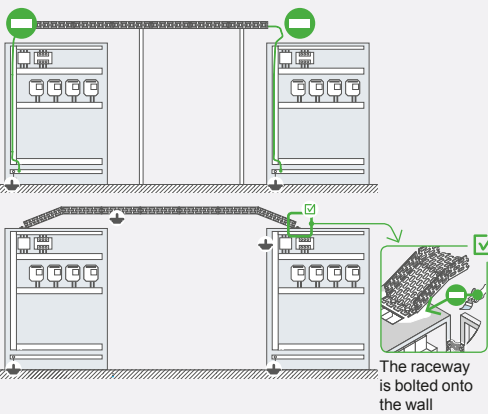
The radiation from a shielded variable speed drive/motor connecting cable will be further reduced if it runs in a closed metal raceway or, even better, in a metal conduit. The raceway and tube need to be connected to earth at either end.

### Enclosures

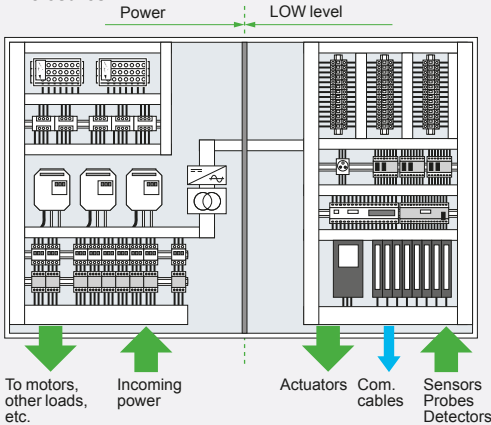
The interfering and sensitive components, cables etc. should be installed in separate enclosures or located at some distance from each other.

*Note: For further information, consult your local sales office or our educational leaflet entitled "Electromagnetic compatibility" - ref. UE17MK08FR.*

### Earth connection of metal raceways



### Enclosures



# Electromagnetic protected steel enclosures

## Introduction

### EMC offer of Schneider Electric

#### Spacial S3HF wall-mounting enclosure IP55 IK10

From H 400 x W 300 x D 200 to H 1200 x W 800 x D 300 mm

- Metal monobloc enclosures constructed from special ALU-ZINC 150 sheet. Body constructed from single folded and welded sheet.
- The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
- Ingress protection rating: IP55.
- Mechanical protection rating: IK10.
- Structured finish, exclusively epoxy-polyester paint on the outside
- RAL 7035 grey colour.

P850205-46



#### Spacial SFHF suitable enclosure IP55 IK10

From H 1800 x W 600 x D 600 to H 2200 x W 800 x D 800 mm

- Metal, extendable enclosure constructed thanks to a closed triangular profile, door and panel from special ALU-ZINC 150 sheet. The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
- Ingress protection rating: IP55.
- Mechanical protection rating: IK10.
- Structured finish, exclusively epoxy-polyester paint on the outside
- RAL 7035 grey colour.

P8501682-46



This range can be configured according to your needs

4 different services available:



Assemble  
to order



Mounting  
of standard  
accessories



Painting



Machining

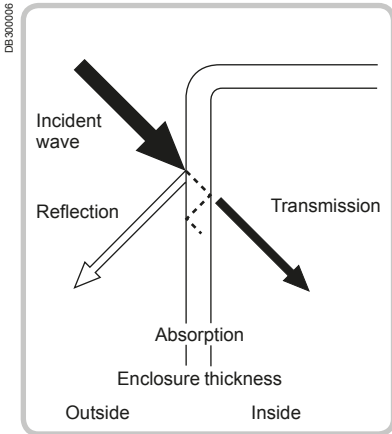
See page 488 for details or consult our web site [www.se.com](http://www.se.com)

# Electromagnetic protected steel enclosures

## Introduction

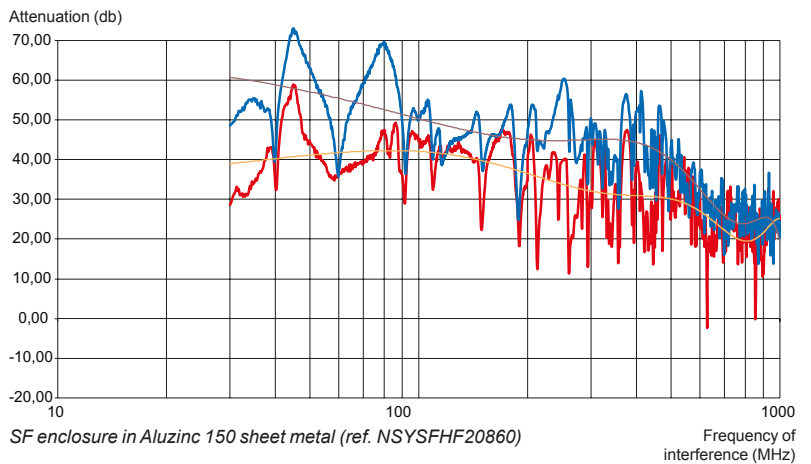
### Attenuation of electromagnetic interference

The next illustrations indicates the attenuation (dB) curves related to the frequency (MHz).



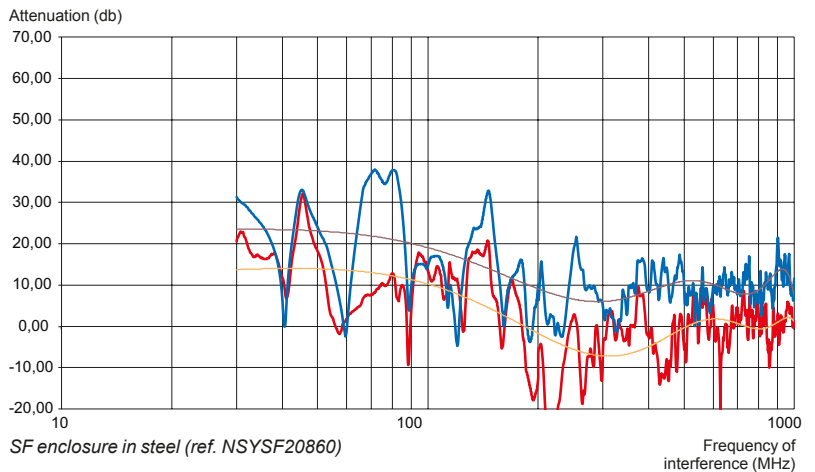
The presence of 55 % aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.

### Attenuation of the Spacial S3HF enclosure



### Attenuation of the Spacial SFHF suitable enclosure

Enclosure is tested with its sides panels and earth braids mounted on all claddings (Test performed following IEC 61587-3).



**Attenuation curves**  
— Horizontal attenuation      — Vertical attenuation  
**Trend curves (polynomial of order 6)**  
— Horizontal attenuation      — Vertical attenuation

# Electromagnetic protected steel enclosures

## Characteristics



PB50005-38

Characteristics		Spacial S3HF			
		Single-piece metal enclosures made from special sheets of ALUZINC 150. The presence of 55 % aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.			
		<ul style="list-style-type: none"> <li>■ <b>Body</b> <ul style="list-style-type: none"> <li>□ single-piece body, folded and welded,</li> <li>□ entirely sealed body with no cable entry and no opening,</li> <li>□ equipped with four shouldered backstuds allowing direct fixing of the mounting plate,</li> <li>□ its low resistivity promotes earth continuity,</li> <li>□ direct fixing or using wall-fixing lugs, ref. <b>NSYPFCR</b> (to be ordered separately).</li> </ul> </li> <li>■ <b>Door</b> <ul style="list-style-type: none"> <li>□ the special body-door gasket (IP + EMC) provides, in addition to water and dust tightness, electric continuity between the door and the body of the enclosure,</li> <li>□ the metal lock with earth continuity helps improve the general shielding,</li> <li>□ an earthing braid added to the enclosure between the body and the door guarantees a good earth connection and, consequently, good electromagnetic compatibility,</li> <li>□ 3 mm double-bar lock as standard delivery (if a 405 key is needed it is possible to mount ref. <b>NSYCLL405CRN</b>).</li> </ul> </li> <li>■ Enclosure delivered with galvanised mounting plate.</li> </ul> Other sizes: consult us.			
Finish		Structured finish, epoxy-polyester powder (inside not painted)			
Colour		RAL 7035 grey			
Ingress protection rating		IP55 according to IEC 60529			
Mechanical protection rating		IK10 according to IEC 62262			
Certifications and declarations		UL, CE declaration			
Fixing		Fixing lugs, ref. <b>NSYPFCR</b> to be ordered separately (1 set of 4 lugs)			
Height (mm)	Width (mm)	Depth (mm)	Fig.	Weight (kg)	References
400	300	200	1	7.5	<b>NSYS3HF4320P</b>
	600	200	1	13.0	<b>NSYS3HF4620P</b>
500	400	200	2	11.5	<b>NSYS3HF5420P</b>
600	400	200	2	13.0	<b>NSYS3HF6420P</b>
	600	250	2	20.5	<b>NSYS3HF6625P</b>
700	500	250	2	19.0	<b>NSYS3HF7525P</b>
800	600	300	2	32.8	<b>NSYS3HF8630P</b>
1000	800	300	2	53.2	<b>NSYS3HF10830P</b>
1200	800	300	2	59.0	<b>NSYS3HF12830P</b>

## Fixing

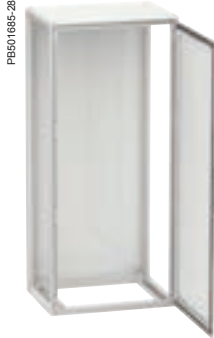
Characteristics		Support bracket for enclosure with anti-tilt kit and reinforcement
		The support bracket is used when the S3HF enclosure cannot be hung from a wall or a post. Suitable for outdoor use. Maximum enclosure dimensions: 1000 x 800 x 300 mm. Floor attachment by standard M12 fastenings.
Material		Steel
Finish		Painted
Colour		RAL 7035 grey
Maximum load		120 kg
Height (mm)	References	
1400	<b>NSYCOCNS1400</b>	
1800	<b>NSYCOCNS1800</b>	

PB501821-18



# Electromagnetic protected steel enclosures

## Characteristics



Characteristics			Spacial SFHF	
			<ul style="list-style-type: none"> <li>■ <b>Structure</b> <ul style="list-style-type: none"> <li>□ galvanised-steel structure,</li> <li>□ top and bottom frame, vertical upright.</li> </ul> </li> <li>■ <b>Claddings</b> <ul style="list-style-type: none"> <li>□ enclosure with screwed panels (on side and rear) and front plain door (with reinforcement frame) made from Aluzinc steel,</li> <li>□ side panels have to be ordered separately,</li> <li>□ special gasket (IP + EMC) between body, door and panels.</li> <li>■ 1 single plain door with door-reinforcement frame (double door on request, please consult us).</li> <li>■ Left or right opening to 120°.</li> <li>■ Delivered with standard locking system handle and 5-mm double-bar insert.</li> <li>■ 1 rear panel screwed from the outside.</li> <li>■ 1 removable roof.</li> <li>■ 1 part cable-gland plate with special gasket (IP + EMC).</li> </ul> </li> </ul>	
Finish			Epoxy-polyester paint on the outside (inside not painted)	
Colour			RAL 7035 grey	
Ingress protection rating			IP55	
Mechanical protection rating			IK10	
Certifications			RoHS compliant	
Fixing			-	
Height (mm)	Width (mm)	Depth (mm)	Enclosure references	Side panel references
1800	600	600	NSYSFHF18660	NSY2SPHF186
		800	NSYSFHF18840	NSY2SPHF184
		600	NSYSFHF18860	NSY2SPHF186
2000	600	400	NSYSFHF20640	NSY2SPHF204
		600	NSYSFHF20660	NSY2SPHF206
		800	NSYSFHF20680	NSY2SPHF208
	800	1000	NSYSFHF206100	NSY2SPHF2010
		400	NSYSFHF20840	NSY2SPHF204
		600	NSYSFHF20860	NSY2SPHF206
		800	NSYSFHF20880	NSY2SPHF208
		1000	NSYSFHF208100	NSY2SPHF2010
		600	NSYSFHF20860	NSY2SPHF206
2200	600	600	NSYSFHF22660	NSY2SPHF226
		800	NSYSFHF22860	NSY2SPHF226
		800	NSYSFHF22880	NSY2SPHF228

# Electromagnetic protected steel enclosures

## Dimensions

### Spacial S3HF

A: Height.  
B: Width.  
C: Depth.

Fig. 1

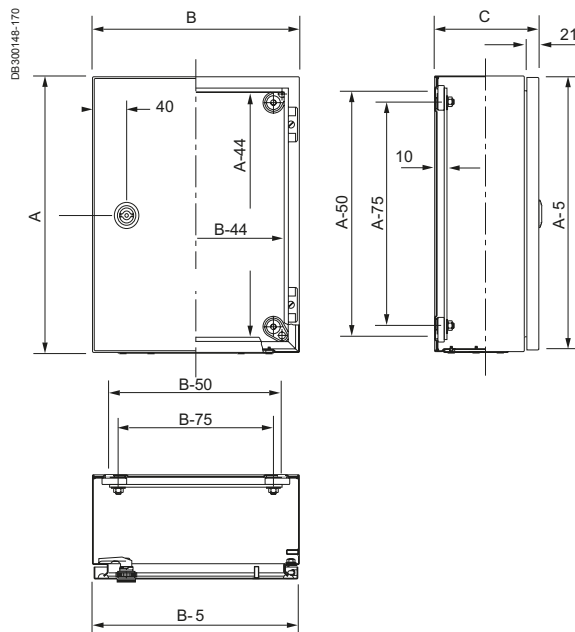
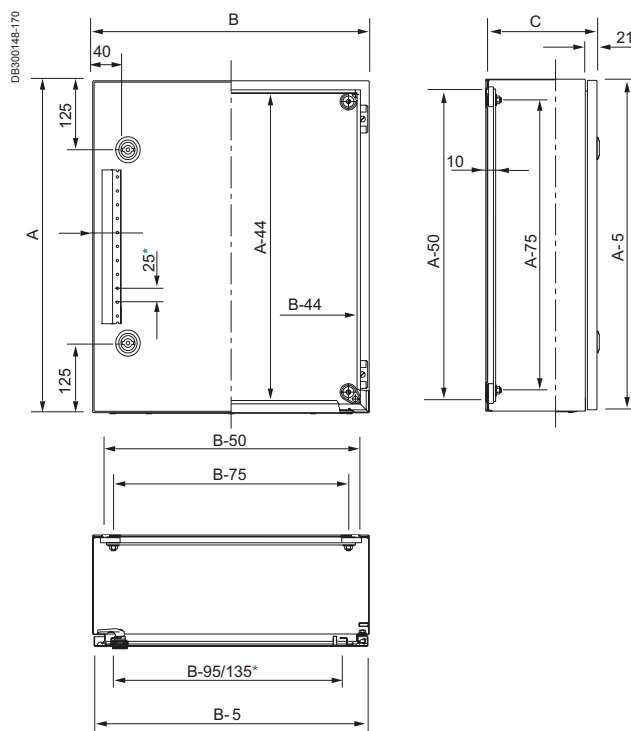


Fig. 2



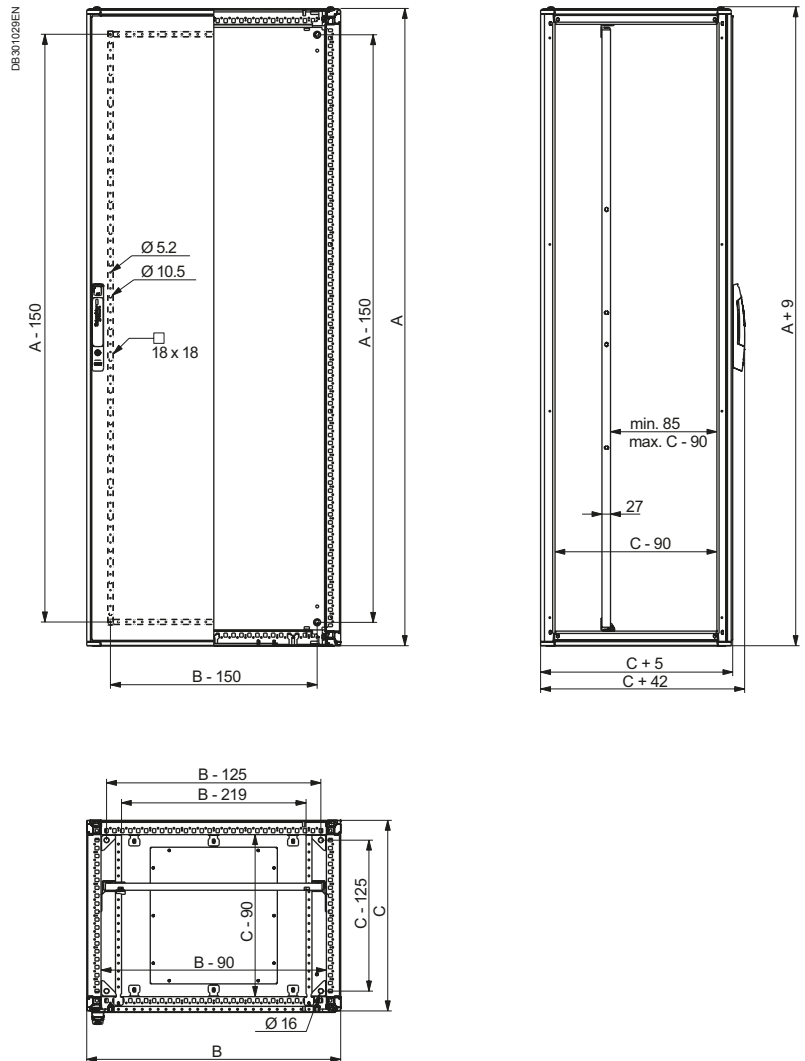
\* Model 1200 x 800.

# Electromagnetic protected steel enclosures

## Dimensions

### Spacial SFHF

A: Height.  
B: Width.  
C: Depth.



# Electromagnetic protected steel enclosures

## Accessories



### All mounting accessories are compatible with the SF standard range.

- Mounting plate (see page 212).
- Rails (see page 221).
- 19" frame (fixed and swinging) (see page 424).



For NSYEB2050D8.



For all other references.

### Earth braids

- They guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.

- **Material:** tinned copper.
- **Supply:** 10 earth braids (nuts and washers not included).

Length (mm)	Width (mm)	Section (mm <sup>2</sup> )	Terminal Ø (mm)	References
150	12	6	6.5	NSYEB156D6
	17	10	6.5	NSYEB1510D6
155	17	16	8.5	NSYEB1516D8
200	27	25	8.5	NSYEB2025D8
	33	50	8.5	NSYEB2050D8

### EMC coupling kit

- Used to join enclosures side-by-side or depthwise.

Special gasket for EMC solution.

Attenuation level is decreased by 5 db when enclosures are joined (please consult us).

- **Ingress protection rating:** IP55.

Height (mm)	Depth (mm)	Ref. SM EMC
1800	400	NSYSFHFBK184
	600	NSYSFHFBK186
2000	400	NSYSFHFBK204
	600	NSYSFHFBK206
	800	NSYSFHFBK208
	1000	NSYSFHFBK2010
2200	600	NSYSFHFBK226
	800	NSYSFHFBK228

New



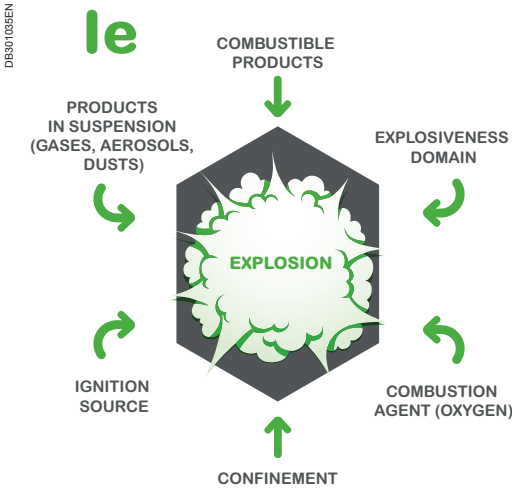
### EMC cable gland with contact spring

Characteristics	EMC cable gland with contact spring					
Thread type	<ul style="list-style-type: none"> <li>■ Metric EN 60423</li> <li>■ Other types are available on demand</li> </ul>					
Material	Nickel-plated brass, neoprene gasket					
Ingress protection rating	IP66					
Flame resistance	V2 depending on UL94					
Temperature range	-20°C to + 100°C					
Cable type	Unshielded					
Supply	<ul style="list-style-type: none"> <li>■ The cable-glands are supplied with nuts</li> <li>■ Pack of 10 (M12 and M16), of 5 (M20 and M25), of 4 (M32 and M40)</li> </ul>					
Dimensions (mm)						
Ø	Ø min/max	Drill Ø	TD	TL	Wrench width	References
M12	3/6.5	12 to 12.2	12	6	14	NSYCGHF12
M16	5/10	16 to 16.2	16	7	20	NSYCGHF16
M20	6/12	20 to 20.2	20	8	22	NSYCGHF20
M25	11/17	25 to 25.2	25	8	27	NSYCGHF25
M32	15/21	32 to 32.3	32	8	34	NSYCGHF32
M40	19/28	40 to 40.3	40	9	43	NSYCGHF40



# Enclosures for explosive atmospheres

## Introduction



Explosion hexagon

### Potentially explosive atmospheres (or ATEX)

#### > Process leading to an explosion in an explosive atmosphere

- For an explosion to occur, six conditions must be met simultaneously (see explosion hexagon opposite). The process is as follows:
  - mix combustible substances (gases, dusts) with air whose oxygen acts as combustion agent;
  - dose combustible products and combustion agents in precise proportions; you thus obtain a potentially explosive atmosphere;
  - confine the explosive atmosphere thus obtained in a place conducive to explosion;
  - place it in contact with an ignition source having sufficient energy to cause an explosion.

#### > ATEX regulations

Two EU directives and an international standard regulate potentially explosive atmospheres :

- The objective of the two EU directives (the so-called ATEX directives) is to enhance protection from explosions by making various technical and organizational measures compulsory:

- the 2014/34/EU directive (a revision of the 94/9/EC directive) came into application on 20 April 2016. It describes the requirements that must be met by protection devices and systems, and the conformity assessment procedures;
- the 99/92/EC directive, a labour relations supplement to the preceding one, presents the minimum requirements to be met to improve the protection of workers liable to be exposed to ATEX-related risks.

- An IEC international standard harmonized with the European standard EN:
  - IEC 60079: electrical equipment for potentially explosive gaseous atmospheres.

#### > Classification

Locations liable to be in the presence of an explosive atmosphere have been classified according to 2 criteria:

- the probability assessed on a scale comprising 3 levels;
- the nature of the combustible product.

The following 6 ATEX zones are obtained:

Probability of an explosive atmosphere	Gas / Vapour or mist	Dust
Place in which an explosive atmosphere is present <b>constantly</b> , or for long periods or frequently	<b>Zone 0</b>	<b>Zone 20</b>
Place in which an explosive atmosphere is likely to occur <b>occasionally</b> in normal operation	<b>Zone 1</b>	<b>Zone 21</b>
Place in which an explosive atmosphere is not likely to occur in normal operation or, if it does occur, will persist for a <b>short period</b> only	<b>Zone 2</b>	<b>Zone 22</b>

### ★ Definition



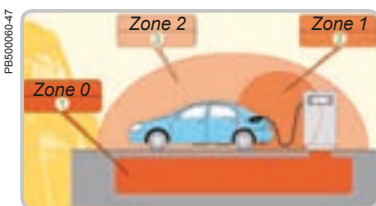
Product directive 2014/34/UE: defines the manufacturers' obligations.



Personal protection directive 99/92/CE: defines the users' obligations.

#### Degree of protection:

In hazardous areas, equipment is required to offer a minimum degree of protection of IP54, but it can be tested or certified with a higher degree of protection.



Equipment installed in an explosive atmosphere zone must be protected against the risk of explosion. Three levels of protection have been defined, corresponding to the three probabilities of existence of an explosive atmosphere. They are broken down into 5 categories depending on the type of industry.

Protection of equipment against explosions			ATEX	
Group *	Category	Level	Probability	Zone
I	M1	Very high	Permanent	0 / 20
	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
	2	High	Occasional	1 / 21
	3	Normal	Accidental	2 / 22

\* I = equipment designed to be used in the mining and quarrying industries  
 II = equipment designed to be used in surface industries

# Enclosures for explosive atmospheres

## Introduction

### > Protection of electrical equipment

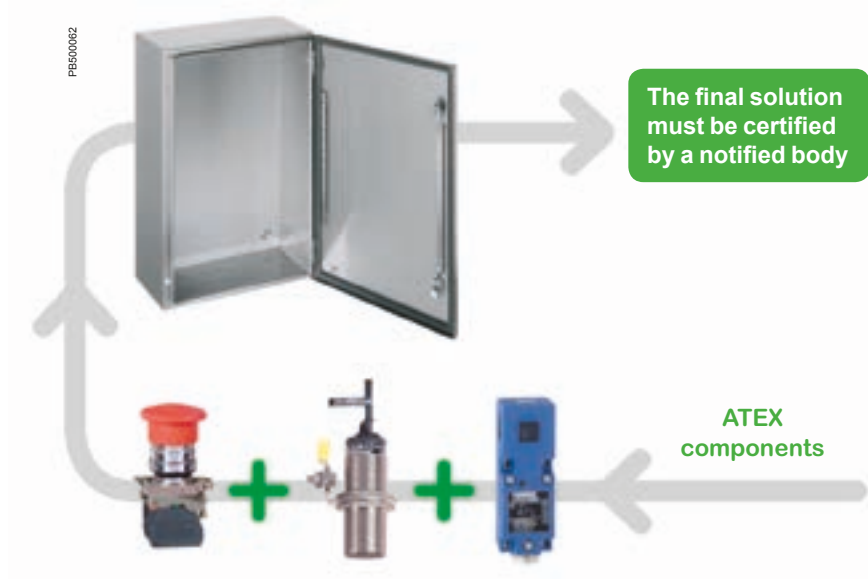
The standards have defined various methods of protection for electrical equipment depending on whether it is located in gaseous or dusty explosive atmospheres.

Electrical equipment		ATEX	Methods of protection	
CENELEC	IEC		Symbol	Title
EN 50015	IEC 60079-6	G, D	o	Immersion in oil
EN 50016	IEC 60079-2	G, D	p	Enclosures with internal overpressure
EN 50017	IEC 60079-5	G, D	q	Filling with powder product
EN 60079-1	IEC 60079-1	G, D	d	Explosion-proof enclosures
EN 60079-7	IEC 60079-7	G, D	e	Enhanced safety "e"
EN 50020	IEC 60079-11	G, D	i	Intrinsic safety
EN 60079-15	IEC 60079-15	G, D	n	Product design
EN 60079-31	IEC 60079-31	G, D	tD	Protection by enclosure "t"

\* G = gas / vapour or mist  
D = dust

### > ATEX certification of electrical switchboards

- Since 1 July 2003, the European Union has made it compulsory to use certified equipment (electrical or non-electric) when it is to be installed in areas where the atmosphere is potentially explosive.
- The certification must be established by an approved organization in accordance with the 2014/34/EU directive.
- The organization certifies that the product complies with the health and safety requirements defined in the European directive and the international standards.
- The certificate indicates, via the marking, the product's category and accordingly the zone and the atmosphere in which it can be used.
- Cubicles are certified as components. They will be assembled with other ATEX components (electrical, pneumatic, hydraulic, etc.), to form an end solution which must itself be ATEX certified and covered by a declaration of conformity.



# Enclosures for explosive atmospheres

## Introduction

### ATEX cubicles from Schneider Electric

#### Steel

##### Steel enclosures

- All the wall-mounting enclosures presented in this brochure comply with standards for protection against the potential risk of explosion in atmospheres charged with gas (G) or dust (D).
- The Schneider Electric offer, designed to be used in group II, is classified as category 2.

Protection of equipment against explosions			ATEX	
Group *	Category	Level	Probability	Zone
I	M1	Very high	Permanent	0 / 20
	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
	2	High	Occasional	1 / 21
	3	Normal	Accidental	2 / 22

\* I = equipment designed to be used in the mining and quarrying industries

II = equipment designed to be used in surface industries

*Zone of application of Schneider Electric ATEX wall-mounting enclosures.*

- Category 2 products can be used as category 3.
- Our products are certified:
  - for gaseous atmospheres: in enhanced safety "e" (Ex e) but not in explosion-proof safety "d" (Ex d);
  - for dusty atmospheres: in protection by enclosure "t" or "tb".
- The wall-mounting enclosures offer a degree of protection IP66 according to IEC 60529, exceeding the recommendations of the ATEX directive.
- Certification of our production sites and inspection procedures guarantees observance and consistency of the quality level.

PB500817-54



#### > Industrial environments, equipment rooms

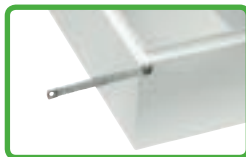
##### Spacial S3DEX steel enclosure

- The **Spacial S3DEX steel enclosure** is certified by the LCIE with no. LCIE 02ATEX0037U (component certification).
- Ten sizes: from 300 x 200 x 150 mm to 1000 x 800 x 300 mm.
- Degree of protection: IP66.
- Ambient temperature limits:  $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ .
- Resistance to external mechanical impacts: IK10.
- Structured finish, epoxy-polyester paint, RAL 7035 grey colour.

# Enclosures for explosive atmospheres

## Introduction

PB500411-32



### Personnel safety

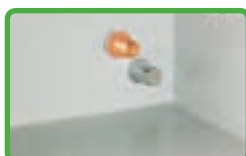
Blind nut for external earth connection.

PB500407-32



Earthing studs welded to the door and inside the body.

PB502596-32



### Robust

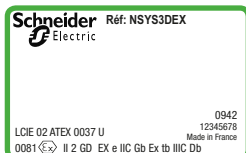
The chassis is mounted on four 10-mm shouldered backstuds.

PB500413-32



The 4 fixing holes are blocked by 4 crimped blind nuts.

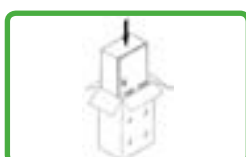
DB300871



### Label

Example of specific ATEX marking (description: page 585).

DB300073-12



### Easy handling

- Reusable, eco-friendly packaging.
- No sharp corners.

## [!] In accordance with the ATEX directive

- The enclosures bear the marking shown page 585.
- The enclosures offer a degree of protection of IP66 according to IEC 60529, reaching the highest dust protection according to ATEX standards.
- The certification of our production sites and inspection procedures guarantees the observance and regularity of the quality level.

Protective of all applications in ATEX II2 or II3 areas –surface installations with occasional or accidental – thanks to ATEX-certified steel.

# Enclosures for explosive atmospheres

## Characteristics



Characteristics	Spacial S3DEX
	<p><b>Protection for users</b></p> <ul style="list-style-type: none"> <li>■ Earthing: The Spacial S3DEX steel cubicles are provided with M6 x 16 earth studs welded to the casing and door for equipotential connection. Earth strap to be ordered separately.</li> <li>■ Closing: Above a height of 600 mm the cubicles are provided with three fastening points with connecting rods, with a single control point preventing the cubicles from being left half-open.</li> </ul> <p><b>Casing</b></p> <ul style="list-style-type: none"> <li>■ Monobloc casing (cross structure). Gutter-shaped front profile.</li> <li>■ 4 bottom shoulder studs M8 x 25 for mounting the chassis and notched bars to provide a space of 10 mm at the rear.</li> </ul> <p><b>Door</b></p> <ul style="list-style-type: none"> <li>■ Standard fastening by 3 mm double-bar lock</li> <li>■ Polyurethane door seal</li> <li>■ Double-thickness 20 mm return conferring excellent rigidity;</li> <li>■ 2 invisible hinges (3 above H = 800 mm) facilitate dismounting and reversibility of the door. Opening angle: 120°</li> <li>■ Maximum load: 50 kg/m<sup>2</sup>.</li> <li>■ Pierced sections on the door, with holes of diameter 4.2 mm every 25 mm for mounting accessories:                     <ul style="list-style-type: none"> <li><input type="checkbox"/> 2 vertical sections as of H = 400 mm;</li> <li><input type="checkbox"/> 2 vertical sections and 2 horizontal sections as of L = 800 mm.</li> </ul> </li> </ul> <p><b>Specific ATEX features</b></p> <ul style="list-style-type: none"> <li>■ 4 fastening holes stopped up by 4 crimped blind nuts.</li> <li>■ One crimped M8 blind nut for an external frame earth link (strap not provided)</li> <li>■ Ambient temperature: -20°C ≤ Ta ≤ +40°C</li> <li>■ Marking: see page 585.</li> </ul>
Material	Steel
Finish	Structured finish, epoxy-polyester paint
Colour	RAL 7035 grey
Ingress protection rating	IP66 (enclosures with single door) according to IEC 60529
Mechanical protection rating	IK10 (enclosures with plain door) according to IEC 62262
Fixing	<ul style="list-style-type: none"> <li>■ Wall-fixing lugs:                     <ul style="list-style-type: none"> <li><input type="checkbox"/> Passivated zinc-coated steel: reference <b>NSYAEFPFSC</b>.</li> <li><input type="checkbox"/> 304L stainless-steel: reference <b>NSYAEFPFXSC</b>.</li> </ul> </li> </ul>



The accessories of the Spacial standard wall-mounting enclosures can be installed in the Spacial S3DEX wall-mounting enclosures. However, plastic accessories should not be used, due to the risk of a static charge.



Characteristics			Spacial S3DEX
Dimensions (mm)			
Height	Width	Depth	Références
300	200	150	<b>NSYS3DEX3215</b>
		200	<b>NSYS3DEX3320</b>
400	300	200	<b>NSYS3DEX4320</b>
	400	200	<b>NSYS3DEX4420</b>
500	400	200	<b>NSYS3DEX5420</b>
600	400	200	-
		250	<b>NSYS3DEX6425</b>
		250	<b>NSYS3DEX6625</b>
700	500	250	<b>NSYS3DEX7525</b>
800	600	250	-
		300	<b>NSYS3DEX8630</b>
1000	800	300	<b>NSYS3DEX10830</b>

# Enclosures for explosive atmospheres

## Accessories



Accessories for Thalassa PLM enclosures can be installed in Thalassa PLMEX enclosures. However, plastic accessories should not be used, due to the risk of a static charge.

PB500072-12



PB500100-12



PB500101-18



PB500102-16



PB500104-16



PB500136-19



Characteristics			Accessories					
Dimensions (mm)			Mounting plates				Mixed symmetrical chassis	Step slides
Height	Width	Depth	Plain	Silkscreened	Microperforated	Telequick		
300	200	150	NSYMM32	-	-	NSYMR32	-	-
	300	200	NSYMM33	-	NSYMF33	NSYMR33	NSYMD33	NSYSDCR200
308	255	160	NSYMM3025	-	-	NSYMR3025	-	-
400	300	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMD43	NSYSDCR200
	400	200	NSYMM44	NSYMS44	NSYMF44	-	-	NSYSDCR200
430	330	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	-	NSYDPLM200
500	400	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMD54	NSYSDCR200
530	430	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	-	NSYDPLM200
600	400	200	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMD64	NSYSDCR200
		250	NSYMM64	NSYMS46	NSYMF64	NSYMR64	NSYMD64	NSYSDCR250
	600	250	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYMD66	NSYSDCR250
647	436	250	NSYMM64	NSYMS64	NSYMF64	NSYMR64	-	NSYDPLM250
700	500	250	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMD75	NSYSDCR250
747	536	300	NSYMM75	NSYMS75	NSYMF75	NSYMR75	-	NSYDPLM300
800	600	250	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMD86	NSYSDCR250
		300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMD86	NSYSDCR300
847	636	300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	-	NSYDPLM300
1000	800	300	NSYMM108	-	NSYMF108	NSYMR108	NSYMD108	NSYSDCR300
1056	852	350	NSYMM108	-	NSYMF108	NSYMR108	-	NSYDPLM350

# Enclosures for explosive atmospheres

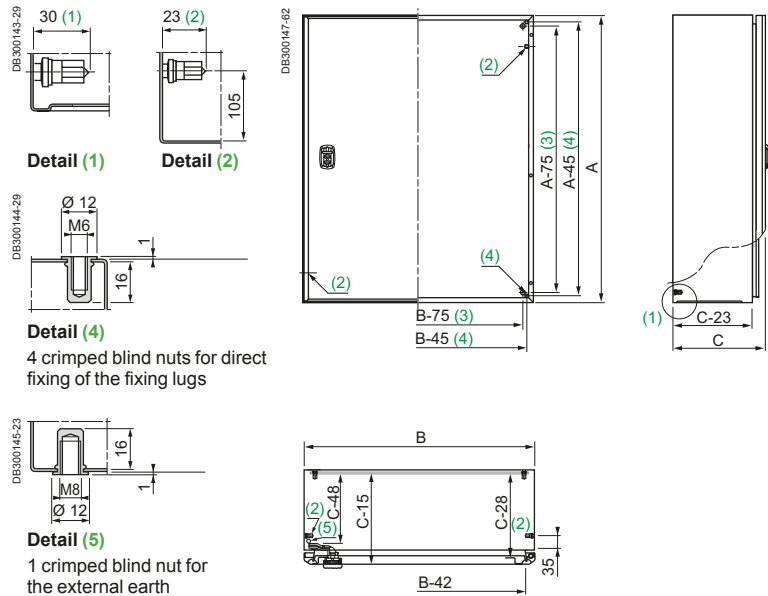
## Dimensions

### Spacial S3DEX

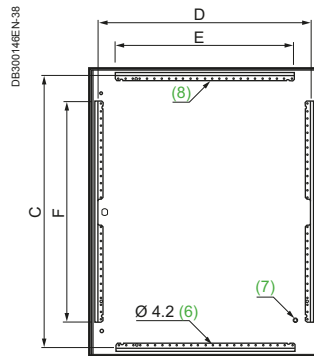
#### 1-door enclosure

A: Height  
B: Width  
C: Depth

- (1) 4 M8 x 25 mm backstuds.
- (2) 2 M6 x 17.5 mm earthing studs.
- (3) Stud centre-to-centre distance.
- (4) Crimped blind nut centre-to-centre distance.
- (5) Blind nut for external earth.



#### Perforated rails on the door



- (6) Perforations with a pitch of 25 mm.
- (7) 1 M6 x 17.5 mm earthing stud.
- (8) The doors of enclosures with dimensions of less than 800 x 600 mm do not have horizontal wire guides.

Enclosure (8)		Perforated rails on the door (mm)			
Height (A) (mm)	Width (B) (mm)	Vertical		Horizontal	
		F	D	E	C
400	300	320	237	-	-
	400	320	337	-	-
600	400	370	337	-	-
	600	370	537	-	-
700	500	470	437	-	-
800	600	570	537	-	-
1000	800	770	737	620	949

## Human-Machine Interface Solutions

**Steel**

> Indoor non-clean industrial environment

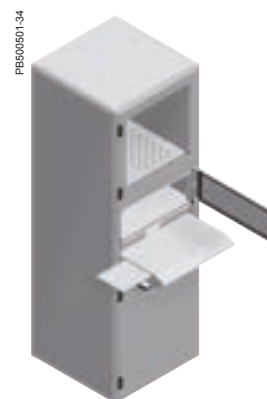
Control enclosure with suspension system



Control Desks



PC racks



**Stainless-steel**

> Demanding industrial environment

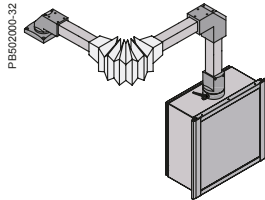
Control Desks



PC racks







PB502000-32

### Spacial S3CM Control enclosure with suspension system

The Spacial S3CM offer for human-machine interface combines **robustness** with **aesthetics** and **ergonomics**. Consist of:

- **control enclosure,**
- **a keyboard-box,**
- **a suspension system** of arms and joints, for a fixed or rotating solutions,
- **and support accessories.**

> See page 450



PB500086-61

### Spacial SD Control desks

The range of Spacial SD control desks provides all the functions required of a workstation intended for industrial applications.

Spacial SD offers two clearly differentiated solutions:

- **the SD Compact control desk,**
- **the SD Control desk with console.**

The range has protection ratings of IP55 and IK10, which guarantee the safety and the protection of the installed devices.

> See page 460



PB502208-16

### Spacial SF suitable PC rack

The Spacial SF PC rack is designed to protect and control computer equipment in an industrial environments.

Access to the various functions and working heights, guaranteeing optimum comfort. The roof and panels, fixed from the inside, prevent access by unauthorised personnel.

> See page 476



PB501287-30

### Spacial SDX Control desks

The Spacial SDX range of control desks offers all the functions required to set up a control station that meets the industrial needs of applications in harsh environments or in the food and beverage sector.

Easy to implement, compatible with dialogue components, guaranteeing the security and protection of control devices, these control desks, with their range of dimensions, meet the strictest needs of their users.

> See page 461



PB501223-55

### Spacial SMX monobloc PC rack

The stainless-steel monobloc PC racks have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid.

Access to the various functions and working heights, guaranteeing optimum comfort.

> See page 480

# Human-Machine Interface

## Introduction

➤ The **Spacial S3CM offer** for human-machine dialogue consists of:

- control enclosures
- a box-keyboard
- a system of arms and joints fixed or rotating
- accessories.

The global dialogue system combines robustness with aesthetics and ergonomics.



## Human-Machine Interface Solutions

PB500433-33



### Robust

- 2 tube sizes in extruded steel, 50 and 80 mm square, thickness 40/10° mm.
- Top wall reinforced by a plate with a thickness of 30/10° mm.

PB500418-29



### Aesthetics

- Extruded aluminium rail frame.
- RAL 7040 paint: frame.
- RAL 7035 paint: enclosure.
- Customisation to your image or the aesthetics of your machine: consult us.

PB500446-37



### Ergonomics

Frame designed for handling the enclosure and facilitating the usage by the operator.

PB500439-21

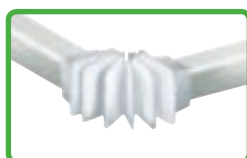


### Easy

Easy access to the equipment by a rear door, opening to 120°.

- Direct installation of accessories on the enclosure frame rail:
  - vertical document support,
  - keyboard support,
  - laptop computer support.
- A box-keyboard is installed directly on the enclosure.

PB500300



### Flexibility

Rotation through 170°; complete range of joints, fixed or rotating.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

# Human-Machine Interface Introduction

Every model is suitable for tubes with a square section of:

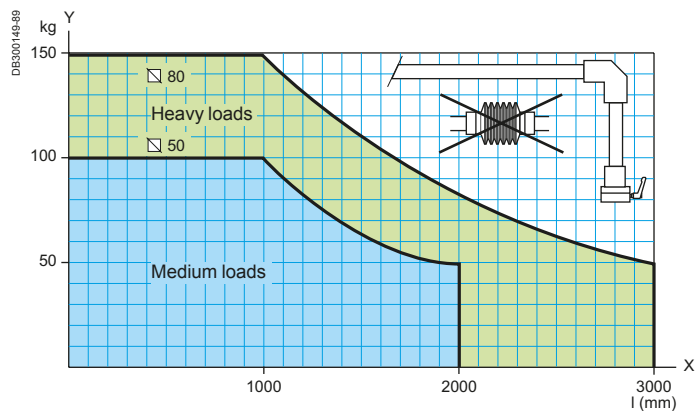
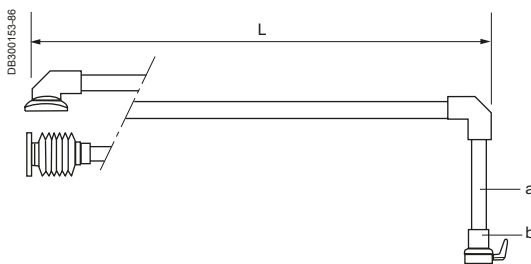
- 50 mm for medium loads,
- 80 mm for heavy loads

(see selection table on page 458).

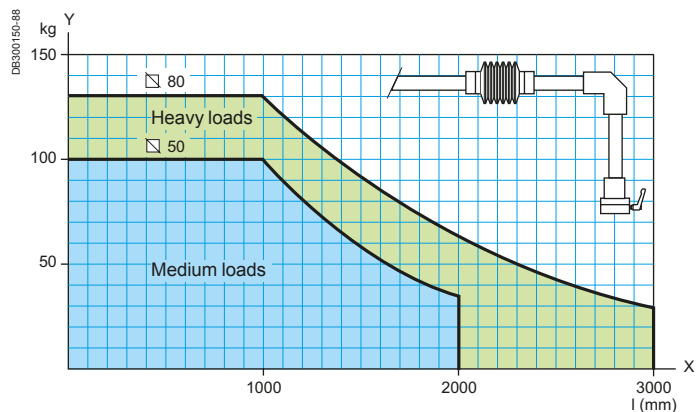
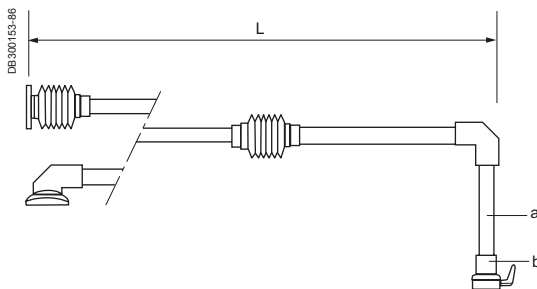
## Steps to choose the suspension system (medium or heavy loads)

- 1 - Define the total load of the system\*: a + b + enclosure + installed equipment (Y axis).
- 2 - Define the length of arm L (X axe).
- 3 - Define the configuration:

■ Suspension system **without** intermediate joint.



■ Suspension system **with** intermediate joint.

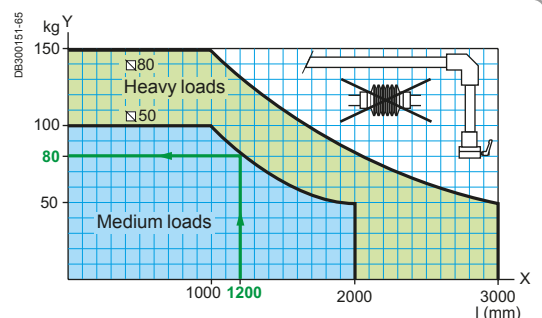


\* The load (a + b + enclosure + installed equipment) must be less than the maximum load.

## ★ Example

- 1 - Total load (kg) = 80 kg.
- 2 - Length (L) = 1200 mm.
- 3 - Suspension system without intermediate joint.

Recommended system > Medium loads □ 50.



# Human-Machine Interface

## Characteristics



Perforated rails installed on lateral studs.



Rear door with double-bar lock.



Detail of the reinforcement plate.



Fixing of the trim frame by screws.



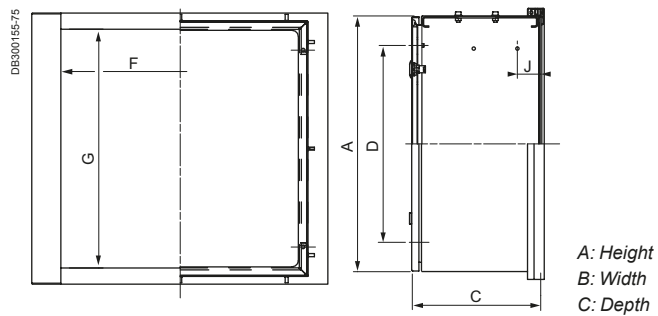
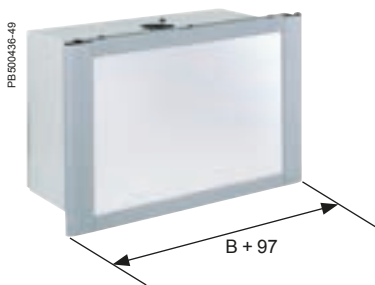
Characteristics		Spacial S3CM			
		The control enclosures consist of:			
		<ul style="list-style-type: none"> <li>■ A steel body equipped with:           <ul style="list-style-type: none"> <li>□ reinforcement plate: the top wall is reinforced by a plate (3 mm) and pierced with a hole Ø 54 or 87 mm (according to the reference) to allow hanging installation of the enclosure,</li> <li>□ 4 welded studs on the 2 inner vertical walls, for fixing the rails,</li> <li>□ 2 rails (with drill holes) for installing equipment,</li> <li>□ a rear door, opening to 120° and closing with double-bar lock.</li> </ul> </li> <li>■ An aluminium front face (2.5 mm thick):           <ul style="list-style-type: none"> <li>□ this surface is protected on both sides by a plastic film, allowing the installation of the dialogue elements,</li> <li>□ a trim frame made from 4 extruded-aluminium rails.</li> </ul> </li> </ul> Structured finish, epoxy-polyester powder, RAL 7040 grey colour (other colours on demand).			
		<ul style="list-style-type: none"> <li>■ The design of these rails takes into account the accessory mounting functions (lamp, document support, keyboard support, laptop support, etc.), the ergonomics for handling the enclosure and its overall aesthetics.</li> </ul>			
Finish		Structured finish, epoxy-polyester powder			
Colour		RAL 7035 grey			
Ingress protection rating		IP54 according to IEC 60529			
Mechanical protection rating		IK10 according to IEC 62262			
Enclosure dimensions (mm)			Enclosure load (kg)	Tube section (mm)	References
Height	Width	Depth			
300	300	200	8.6	50	NSYS3CM303020
	400	200	9.5	50	NSYS3CM304020
400	400	200	11.4	50	NSYS3CM404020
	600	250	17.9	50	NSYS3CM406025*
500	500	250	20.2	50	NSYS3CM505025
600	600	200	26.5	50	NSYS3CM606020*
	800	300	34.9	80	NSYS3CM608030
800	600	300	33.6	80	NSYS3CM806030*

\* Enclosure equipped with a cable-gland plate.

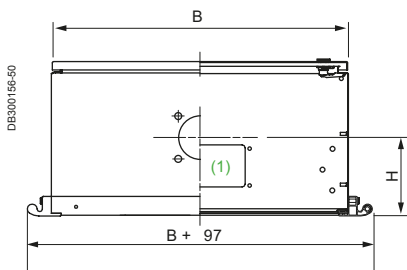
# Human-Machine Interface Dimensions

Enclosure dimensions (mm)								Cable-gland plate	Ø Top hole (mm)	Fig.	Enclosure
Height (A)	Width (B)	Depth (C)	D	F	G	H	J				References
300	300	200	162	262	262	100	45	-	54	1	NSYS3CM303020
	400	200	162	362	262	100	45	-	54	1	NSYS3CM304020
400	400	200	262	362	362	100	45	-	54	1	NSYS3CM404020
	600	250	262	562	362	125	75	■	54	1	NSYS3CM406025*
500	500	250	362	462	462	125	75	-	54	1	NSYS3CM505025
600	600	200	462	562	562	100	45	■	54	1	NSYS3CM606020*
	800	300	462	762	562	150	100	-	87	2	NSYS3CM608030
800	600	300	662	562	762	150	100	■	87	2	NSYS3CM806030*

\* Enclosure equipped with a cable-gland plate.



W600 enclosure + box-keyboard installation



(1) Cable-gland plate.

Figure 1  
Enclosure depth from 200 to 250

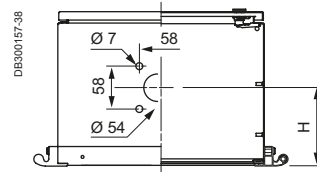
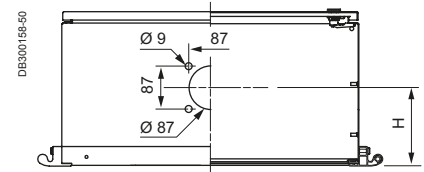


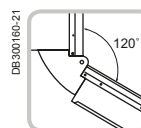
Figure 2  
Enclosure depth 300



# Human-Machine Interface

## Specific accessories

### Box-keyboard for control enclosure



Detail from the installation of the box-keyboard on the control enclosure.

Characteristics		Box-keyboard for control enclosure	
<p>The box is installed on the control enclosures with a width of 600 mm. It then has an angle of 120° with its front face. All the accessories required for installation are delivered with 2 brackets and 1 trim rail, 1 hose for cable entry. The box for the keyboard consists of:</p> <ul style="list-style-type: none"> <li>■ a steel body, structured finish, epoxy-polyester powder, RAL 7035 grey colour, with a screwed cover,</li> <li>■ an aluminium front face (2.5 mm thick) for installing a keyboard,</li> <li>■ a trim frame made from 2 extruded-aluminium rails guaranteeing ergonomic handling of the box and the aesthetics of the unit. The frame and the front face are delivered assembled. Structured finish, epoxy-polyester powder, RAL 7040 grey colour.</li> </ul>			
Ingress protection rating	IP54 according to IEC 60529		
Mechanical protection rating	IK10 according to IEC 62262		
Weight	8 kg		
Reference			
Height (mm)	Width (mm)	Depth (mm)	
250	600	116	<b>NSYCMT2560110</b>

PB500439-26



### Support

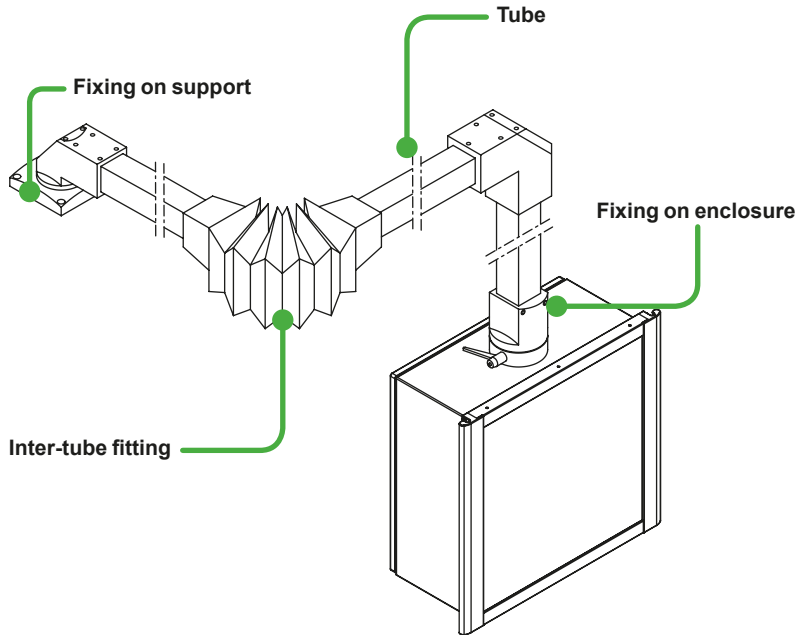


Characteristics		Support	
		<b>Laptop computer</b>	<b>Keyboard</b>
		Installation on the left or right rail of the frame of the control enclosure.	
Material	Steel		
Finish	Structured finish, epoxy-polyester powder		
Colour	RAL 7035 grey		
Thickness	15/10° mm	15/10° mm	
Weight	2.04 kg	2.16 kg	
References			
Height (mm)	Width (mm)	Depth (mm)	
315	230	-	-
-	350	310	<b>NSYCMBPC</b>
-	500	200	<b>NSYCMBPT</b>

# Human-Machine Interface

## Specific accessories

### Suspension system



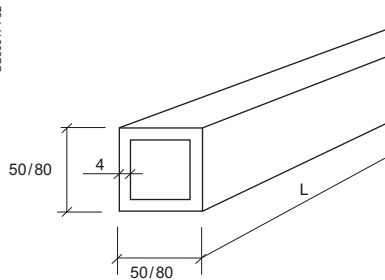
P850042

#### Tube

- The tubes are available in:
  - 2 sizes: square of 50 and 80 mm,
  - 4 lengths: 0.5, 1, 1.5 and 2 m.
- **Material:** extruded steel.
- **Finish:** structured finish, powder.
- **Colour:** RAL 7035 grey.
- **Thickness:** 40/10° mm.
- **Weights:**
  - 50 x 50: 6.5 kg/m,
  - 80 x 80: 10.5 kg/m.

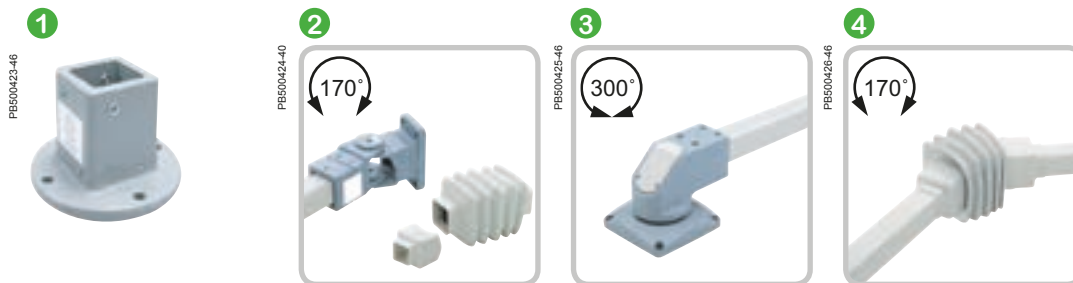
Length (m)	50 mm square	80 mm square
0.5	NSYCMT5005	NSYCMT8005
1	NSYCMT5010	NSYCMT8010
1.5	NSYCMT5015	NSYCMT8015
2	NSYCMT5020	NSYCMT8020

DB300174-52



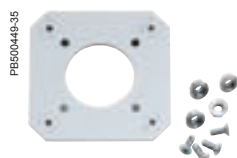
# Human-Machine Interface Accessories

## Suspension system



Characteristics	Fixed base		Wall fixing with joint		Rotating straight fitting		Horizontal inter-tube joint	
	Support foot for direct horizontal or vertical connection.		Device allowing rotation through 170° of a horizontal tube, with a square section of 50 or 80 mm, and its fixing on a vertical surface. Protection by bellows, RAL 7035 grey colour. Possibility of passing cables through the inside of the joint.		Device allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in horizontal position. Without blocking the chosen position. Fixing by 4 screws, not included.		Device allowing the linking and rotation through 170° of 2 horizontal tubes, with a square section of 50 or 80 mm. Protection by bellows, RAL 7035 grey colour. Possibility of passing cables through the inside of the joint.	
Material	Moulded steel		Moulded steel		Moulded steel		Moulded steel	
Colour	RAL 7040 grey		RAL 7040 grey		RAL 7040 grey		RAL 7040 grey	
Weight (kg)	3.25	7	4.35	9.45	5.4	15.7	4.25	10
<b>Dimensions (mm)</b>								
∅ A	<b>50 mm square</b>	<b>80 mm square</b>	<b>50 mm square</b>	<b>80 mm square</b>	<b>50 mm square</b>	<b>80 mm square</b>	<b>50 mm square</b>	<b>80 mm square</b>
B	42	72	92	115	50	74	42	72
C	105	134	118	160	68	98	236	320
D	11	11	42	72	42	72	67	94
E	125	173	85	130	30	45	148	190
F	152	201	11	11	96	144	-	-
G	-	-	148	190	96	141.5	-	-
H	72	111	80	115	134	195.5	-	-
I	97	126	130	175	140	210	-	-
J	-	-	55	90	120	180	-	-
K	-	-	68	103	9	13	-	-
L	110	140	105	150	55	84	-	-
S	15	16	-	-	-	-	-	-

References	NSYCMUMR50	NSYCMUMR80	NSYCMUMA50	NSYCMUMA80	NSYCMUMC50	NSYCMUMC80	NSYCMUIA50	NSYCMUIA80

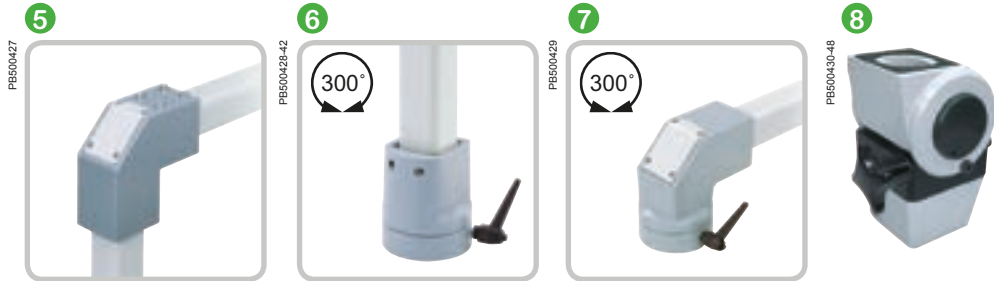


**Adapter part for enclosure D300 / Ø 80 mm**

Reference  
NSYCMUCPAD87



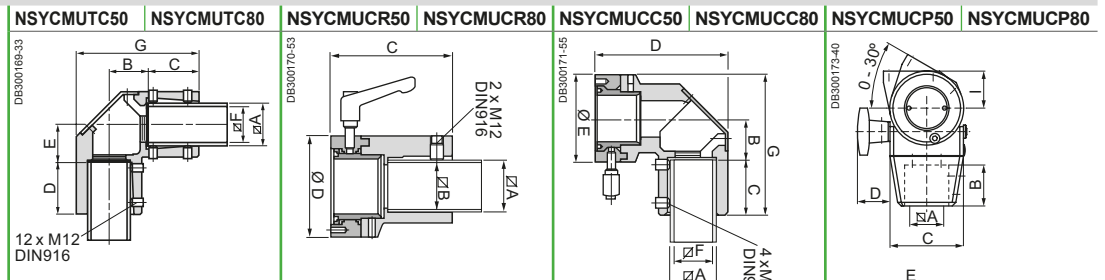
## Suspension system



Characteristics	Fixed bracket	Rotating fixing on enclosure	Rotating fixing in bracket on enclosure	Tilting fixing on enclosure
	Our system of tubes and joints, fixed or rotating, enables all the solutions to respond to the installation needs of the control enclosures for human-machine dialogue. Device allowing the combination and fixing of a horizontal tube with a vertical tube.	Device allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in vertical position. System for blocking in the chosen position. Fixing through the support surface by 4 screws.	Devices allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in horizontal position. System for blocking in the chosen position. Fixing through the support surface by 4 screws.	This fixing allows the enclosures to be tilted up to 30°. System for blocking in the chosen position. It is installed on enclosures with depths of 200 and 250 mm. The installation on enclosures with a depth of 300 mm requires an adapter plate.
Material	Aluminium	Aluminium	Aluminium	Aluminium + PA
Colour	RAL 7040 grey	RAL 7040 grey	RAL 7040 grey	RAL 7040 grey + PA black
Weight (kg)	1.35    2.4	1.25    3.1	2        6.55	2.98    3.10

Dimensions (mm)										
∅ A	50 mm square		80 mm square		50 mm square		80 mm square		50 mm square	
B	46	56	42	72	46	56	55	55	55	55
C	60	83	115	145	60	83	100	100	100	100
D	60	83	96	139	147	190	44	44	44	44
E	46	56	52.3	85	96	139	121	121	121	121
F	42	70	58	87	42	72	182	182	182	182
G	144	193	-	-	154	208.5	50	50	50	50
H	-	-	-	-	42	70	100	100	100	100
I	-	-	-	-	58	87	50	50	50	50
M	-	-	M6	M8	M6	M8	-	-	-	-

### References



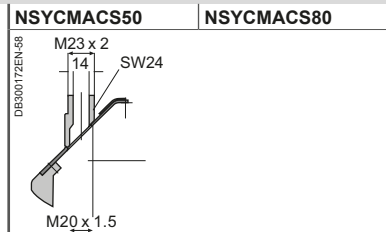
### Adapter for signalling beacon

PE500448-17

- It is installed on fixed brackets ref. **NSYCMUTC50** and **NSYCMUTC80**.
- Material:** aluminium.
- Finish:** structured finish, powder.
- Colour:** RAL 7040 grey.

Weight	0.025 kg	0.08 kg
∅ A	50 mm square	80 mm square

### References



# Human-Machine Interface

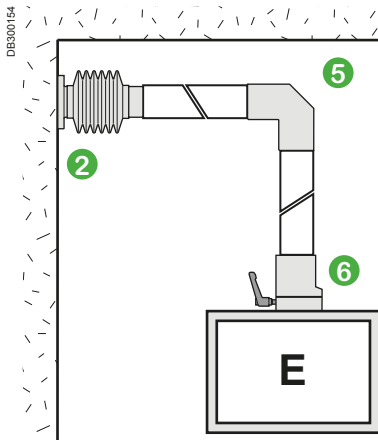
## Selection guide

Enclosure		References	
 PB500421-24	H x W x D (mm) top wall	Tube section ∅ 50 mm	∅ 80 mm
	300 x 300 x 200	NSYS3CM303020	-
	300 x 400 x 200	NSYS3CM304020	-
	400 x 400 x 200	NSYS3CM404020	-
	400 x 600 x 250	NSYS3CM406025*	-
	500 x 500 x 250	NSYS3CM505025	-
	600 x 600 x 200	NSYS3CM606020*	-
	600 x 800 x 300	-	NSYS3CM608030
800 x 600 x 300	-	NSYS3CM806030*	
Tube		References	
 PB500422-33	Length (m)	Tube section ∅ 50 mm	∅ 80 mm
	0.5	NSYCMT5005	NSYCMT8005
	1	NSYCMT5010	NSYCMT8010
	1.5	NSYCMT5015	NSYCMT8015
	2	NSYCMT5020	NSYCMT8020
Fixing on support (steel material)		References	
 PB500423-26	① Fixed base	Tube section ∅ 50 mm	∅ 80 mm
		NSYCMUMR50	NSYCMUMR80
 PB500424-25	② Wall fixing with joint	NSYCMUMA50	NSYCMUMA80
 PB500425-30	③ Rotating straight fitting	NSYCMUMC50	NSYCMUMC80
Inter-tube fitting (aluminium material)		References	
 PB500426-28	④ Horizontal inter-tube joint	Tube section ∅ 50 mm	∅ 80 mm
		NSYCMUIA50	NSYCMUIA80
 PB500427-24	⑤ Fixed bracket	NSYCMUTC50	NSYCMUTC80
Fixing on enclosure (aluminium material)		References	
 PB500428-18	⑥ Rotating fixing on enclosure	Tube section ∅ 50 mm	∅ 80 mm
		NSYCMUCR50	NSYCMUCR80
 PB500429-28	⑦ Rotating fixing in bracket on enclosure	NSYCMUCC50	NSYCMUCC80
 PB500430-23	⑧ Tilting fixing on enclosure	NSYCMUCP50	NSYCMUCP80 (1)

\* Enclosure equipped with a cable-gland plate.

(1) Installation on an enclosure D300 requires plate ref. NSYCMUCPAD87 (see page 456).

# Human-Machine Interface Examples



**Fixing on support**

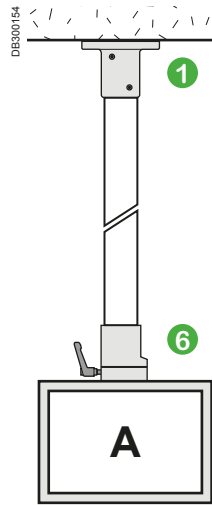
2 See page 456

**Inter-tube fitting**

5 See page 457

**Fixing on enclosure**

6 See page 457



**Fixing on support**

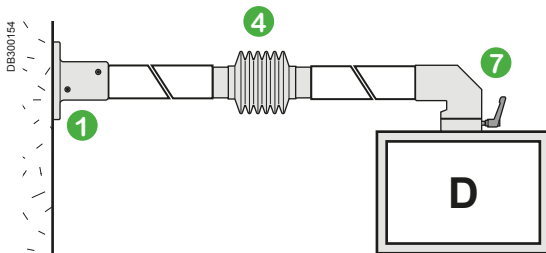
1 See page 456

**Inter-tube fitting**

-

**Fixing on enclosure**

6 See page 457



**Fixing on support**

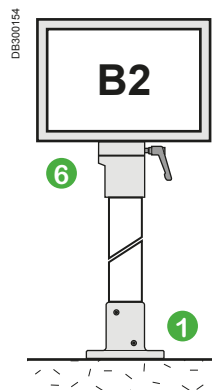
1 See page 456

**Inter-tube fitting**

4 See page 456

**Fixing on enclosure**

7 See page 457



**Fixing on support**

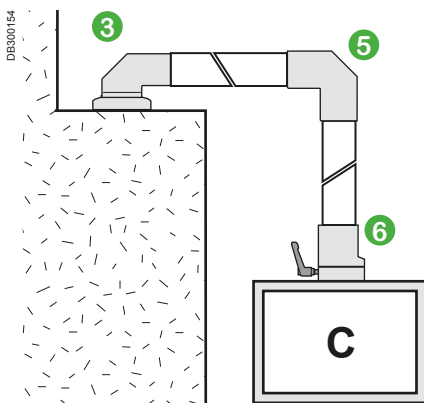
1 See page 456

**Inter-tube fitting**

-

**Fixing on enclosure**

6 See page 457



**Fixing on support**

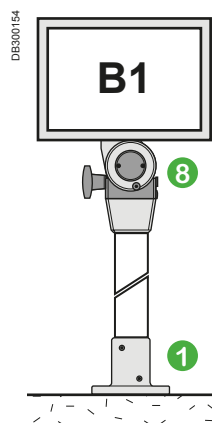
3 See page 456

**Inter-tube fitting**

5 See page 457

**Fixing on enclosure**

6 See page 457



**Fixing on support**

1 See page 456

**Inter-tube fitting**

-

**Fixing on enclosure**

8 See page 457

# Human-Machine Interface

## Introduction

### SD

> The range of **Spacial SD** control desks provides all the functions required of a workstation intended for industrial and infrastructure applications.

PB501202-46



PB501201-46



PB501208-46



### Steel control desks

PB501202-16



#### Accessibility

There are two versions of the Compact control desk:

- Front accessibility: designed for straightforward solutions.
- Front and rear accessibility through a removable panel: enables the installation of two adjoining plates and to work at the rear.

The control desk with console offers full accessibility, since it is fully accessible from the rear thanks to the 3-point closure door it includes.

For Spacial SD, the accessibility which allows quick and easy work is one of its main priorities.

For this reason, its design excludes the central upright.

PB501197-32



#### Easy

The console opens easily and safely thanks to the installed pneumatic opening lid stays.

Cable entry is optimised because all the models of the range include a cable-gland plate with two adjustable parts.

PB501189-14



#### Convenience

The possibility of connecting the modular control desk to the modular consoles affords multiple combinations.

The opening direction of the door can be changed quickly thanks to the included hinges.

PB501194-19



#### Compatibility

Furthermore, the Spacial SD control desk is compatible with most of the accessories of the Spacial SF and SM ranges.

**This range can be configured according to your needs**

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

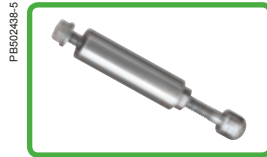
See page 488 for details or consult our web site [www.se.com](http://www.se.com)

### SDX

> The association of a monobloc control desk with one or more consoles enables all combinations. Complete accessibility to the inside of the control desk thanks to its design without intermediate crossbars.



### Stainless-steel control desks



#### Hygiene

The high quality of the standard finish enables very easy maintenance while avoiding contamination. The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures.



#### Resistance to corrosion

High resistance to corrosion. 304L (and 316L on demand) stainless-steels provide the best solutions for applications in extremely demanding environments.



#### Compatibility with the other ranges

- Stainless-steel accessories:
  - plinths, locks.
- Accessories of the steel control desks offer:
  - mounting plate, pneumatic opening stay, etc.

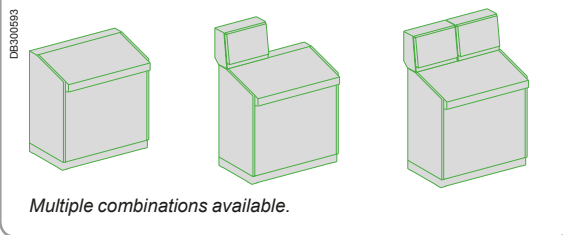


#### Convenient

The desk lid and the console are equipped with pneumatic opening stays (opening to 75°) allowing complete access to the inside and preventing sudden falls of the console or the hinged cover. Equipped with adjustment rails for adjusting the depth of the mounting plate. Removable rear panel.

### ★ Examples of associations

#### Consoles and control desks



This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)

# Human-Machine Interface

## Characteristics



Characteristics	Compact control desk	Control desk with console
	<p>This range is available in 4 widths with fixed rear panel. Full accessibility is provided from the front (no central upright).</p> <p>Easy removable and reversible door opening to 120°.</p> <p>Locking by 3-mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 472).</p> <p>Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.</p> <p>Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.</p> <p>Cable-gland plate with 2 adjustable parts, with polyurethane gasket.</p> <p>M8 x 18-mm earthing bolt for equipotential connection between the door and the body.</p>	<p>Full accessibility is provided from the front and rear.</p> <p>Easy removable and reversible front door, opening to 120°.</p> <p>Locking by two-point locks with 3-mm double-bar insert.</p> <p>Desk lid equipped with a pneumatic opening stay. Opens to 75°.</p> <p>Perforated reinforcement rails with a pitch of 25 mm for quick installation of cables and cable ducts. Locking by two-point locks with 3-mm double-bar insert.</p> <p>Hinged console cover equipped with a pneumatic opening stay. Opens to 75°.</p> <p>Locking by two-point locks with 3-mm double-bar insert.</p> <p>Easy removable and reversible rear door, opening to 120°.</p> <p>Locking by three-point lock with flat escutcheon, 5-mm double-bar insert.</p> <p>One entry cable-gland plate, with polyurethane gasket.</p> <p>Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.</p> <p>M8 x 18-mm earthing bolt for equipotential connection between the door and the body.</p>
Material	Welded folded steel	Welded folded steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey	RAL 7035 grey
Thickness	15/10 <sup>6</sup> mm	15/10 <sup>6</sup> mm
Ingress protection rating according to IEC 60529	IP55	IP55
Mechanical protection rating according to IEC 62262	IK10	IK10
Options	It can also be equipped with a mounting plate, see page 474	Plinth options see page 470. It can also be equipped with a mounting plate, see options page 474. Locking system: other inserts or cylinders also available, see page 472. The console can support the installation of a 14" screen with an optional PC support plate, see page 474.

### References

Dimensions (mm)		Depth	Door number		No. Front doors	No. Rear doors	No. cable gland plates	
Width (B)	Height		1	2				
600	1000	469	NSYSD6	-	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
800	1000	469	NSYSD8	-	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
	1400	845	-	-	1	1	1	NSYSDF88
		1045	-	-	1	1	1	NSYSDF810
1000	1000	469	-	NSYSD10	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
	1400	845	-	-	2	2	1	NSYSDF108
		1045	-	-	2	2	1	NSYSDF1010
1200	1000	469	-	NSYSD12	-	-	-	-
		500	-	-	-	-	-	-
		600	-	-	-	-	-	-
	1400	845	-	-	2	2	1	NSYSDF128
		1045	-	-	2	2	1	NSYSDF1210
1600	1400	845	-	-	2	2	2	NSYSDF168
		1045	-	-	2	2	2	NSYSDF1610

# Human-Machine Interface Characteristics

**SD**



**SDX**



**Compact control desk with rear panel**

Removable rear panel. It enables the installation of two mounting plates back-to-back, allowing the installation of a large number of devices, while ensuring full accessibility from the front and the rear.  
 At the top, these control desks are equipped with cable-entry cut-outs, that allows the installation of one or more modular consoles.  
 Easy removable and reversible door, opening to 120°. Locking by 3-mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 472).  
 Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.  
 Top cable-entry cut-outs covered by a entire blanking cover.  
 Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.  
 Cable-gland plate with 2 adjustable parts, with polyurethane gasket.  
 M8 x 18-mm earthing screw for equipotential connection between the door and the body.

Welded folded steel	304L stainless-steel
Structured finish, epoxy-polyester powder paint	Scotch-Brite® brushed finish
RAL 7035 grey	-
15/10° mm	15/10° mm
IP55	IP55
IK10	IK10
Modular consoles to be installed on top of compact control desk. See details and combinations page 468. It can also be equipped with a mounting plate, see page 474.	Stainless-steel modular consoles to be installed on top of compact control desk. See details and combinations page 468. It can also be equipped with a mounting plate, see page 474.

Door number		Door number	
1	2	1	2
-	-	-	-
-	-	<b>NSYSDX6</b>	-
<b>NSYSD6R</b>	-	-	-
-	-	-	-
-	-	<b>NSYSDX8</b>	-
<b>NSYSD8R</b>	-	-	-
-	-	-	-
-	-	-	<b>NSYSDX10</b>
-	<b>NSYSD10R</b>	-	-
-	-	-	-
-	-	-	-
-	-	-	<b>NSYSDX12</b>
-	<b>NSYSD12R</b>	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

# Human-Machine Interface Dimensions

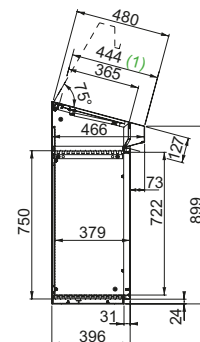
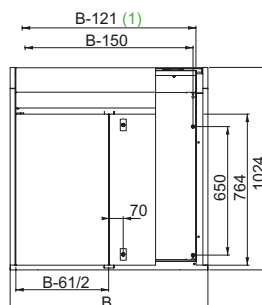
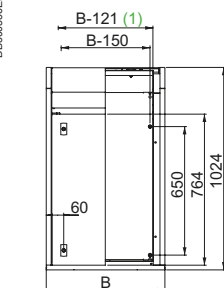
**SD**

## Compact control desk

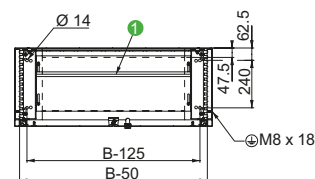
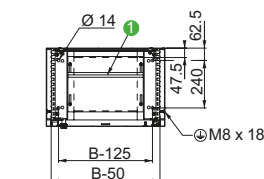
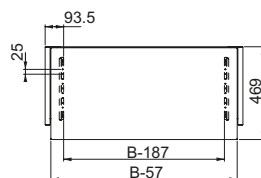
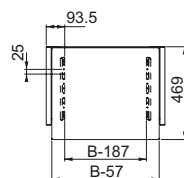
1 door

2 doors

DB30055REN-102



Common side view.  
(1) Useful clearance.



### Cable-gland plate clearance dimensions (mm)

Width	Maximum opening
B-280	56

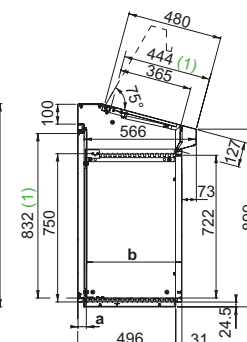
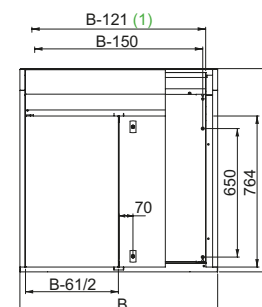
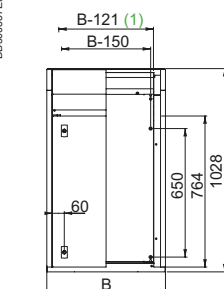
**SD**

## Compact control desks with rear panel

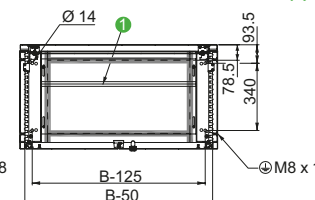
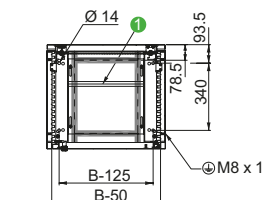
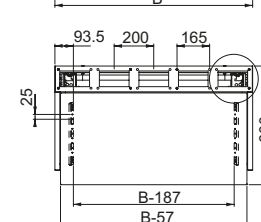
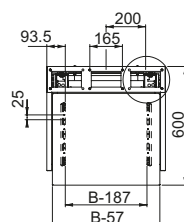
1 door

2 doors

DB300557EN-108



Common side view.  
(1) Useful clearance.



### Cable-gland plate clearance dimensions (mm)

Width	Maximum opening
B-280	56

### Adjustment of the depth of the mounting plate (mm)

Depth	Min.	Max.
a	42	392
b	129	479



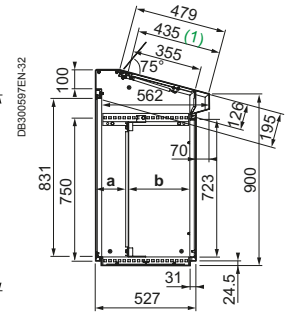
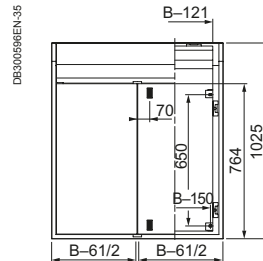
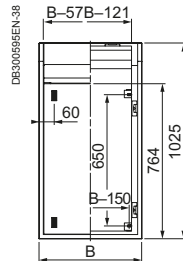
# Human-Machine Interface Dimensions

**SDX**

## Compact control desks with rear panel

1 door

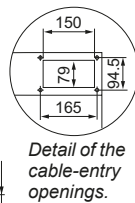
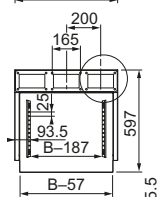
2 doors



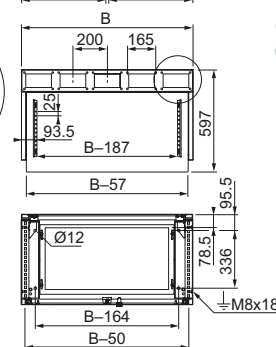
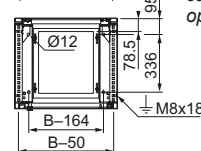
Common side view.  
(1) Useful clearance.

Cable-gland plate clearance dimensions (mm)	
Width	Maximum opening
B-280	370

Adjustment of the depth of the mounting plate (mm)		
Depth	Min.	Max.
a	45	395
b	126	476



Detail of the cable-entry openings.

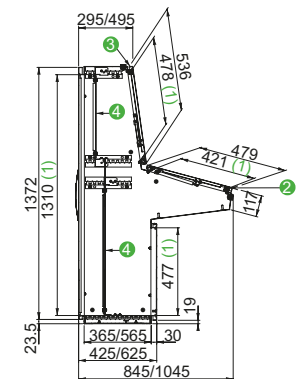
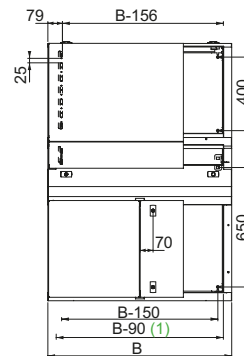
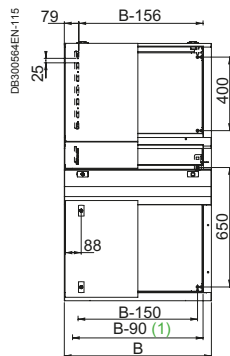


**SD**

## Control desk with console

1 door

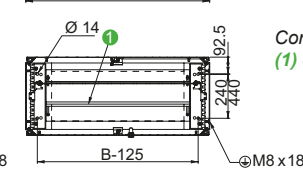
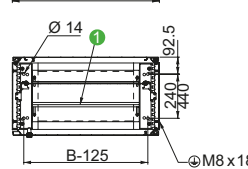
2 doors



Common side view.  
(1) Useful clearance.

Cable-gland plate clearance dimensions (mm)	
Width	Maximum opening
B-280	56

- Notes**
- 1 1 entry cable-gland plate
  - 2 Maximum opening of the hinged desk lid: 75°
  - 3 Maximum opening of the hinged console cover: 75°
  - 4 Optional mounting plate installation, see page 474



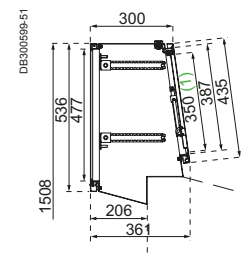
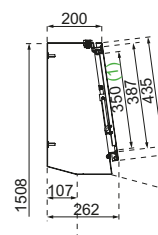
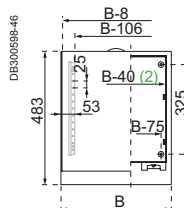
**SD**

**SDX**

## Modular console

Depth 200 mm

Depth 300 mm



(1) Useful clearance.  
(2) Same dimensions for the rear panel.

# Human-Machine Interface

## Specific accessories overview

PB501614-77



### Composition accessories

#### Modular consoles



Page 468

#### Floor



Page 470

#### Door



Page 471

#### Locking system



Page 472

#### Windows



Page 275

### Installation accessories

#### Mounting acc.



Page 474

# Human-Machine Interface

## Common accessories overview

### Cable management

PB502439-65



#### Cable holding

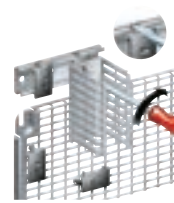
PB500986-40



Page 260

#### Cable ducting

PB500959-22



Page 263

### Thermal management

#### Heaters

PB502050-29



Page 556

#### Ventilation

PB501044-26



Page 498

### Others

#### Earthing

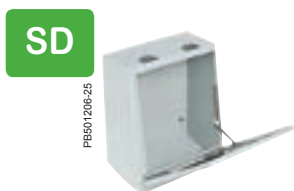
PB500948-88  
PB500217-18  
PB500084-24



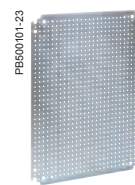
Page 277

# Human-Machine Interface Accessories

## Modular consoles





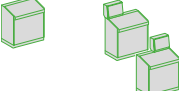


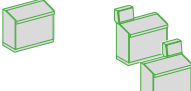



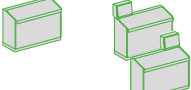




Characteristics			Modular consoles			
			Hinged modular console cover equipped with a pneumatic opening stay. Opens to 75°. Locking of the hinged modular console cover by two 3-mm double-bar locks (other inserts or barrels also available, to be ordered separately, see page 472). Screw fixed rear panel equipped with step slides in the version with a depth of 300 mm.			
Material			Welded folded steel		304L stainless-steel	
Finish			Structured finish, epoxy-polyester powder		Scotch-Brite® brushed finish	
Colour			RAL 7035 grey		-	
Thickness			15/10° mm		15/10° mm	
Ingress protection rating			IP55 according to IEC 60529		IP55 according to IEC 60529	
Mechanical protection rating			IK10 according to IEC 62262		IK10 according to IEC 62262	
Options			The link between the control desk and the modular console requires, in certain cases, the addition of one or several blanking covers (to be ordered separately). Optional galvanised mounting plate.			
References						
Dimensions (mm)			No. of cable entry cut-outs			
Width (B)	Height	Depth	2	3	2	3
400	483	200	NSYSDC42	-	NSYSDCX42	-
		300	NSYSDC43	-	NSYSDCX43	-
600	483	200	-	NSYSDC62	-	NSYSDCX62
		300	-	NSYSDC63	-	NSYSDCX63



Characteristics			Blanking cover		Mounting plates for modular consoles		
			To conceal the free space of the control desk when the width of the console or consoles is less than the width of the control desk. In any case, it is necessary to previously remove the top plate delivered with the control desk.		Steel mounting plates can be installed at the back of modular consoles (F). See more information about the mounting plates page 206.		
Material			Steel	304L stainless-steel	Galvanized Steel		
Finish			Structured finish, epoxy-polyester powder	-	-		
Colour			RAL 7035 grey	-	-		
Thickness			15/10° mm	15/10° mm	-		
Fixing			Fixing by screws	Fixing by screws	-		
References							
Blanking cover length (mm)							
200			NSYRP2	NSYRPX2	-	-	-
Modular console width (mm)	Fixing centre-to-centre distance (mm)				Plain mounting plate	Microperforated mounting plate	Telequick mounting plate
	Height	Width					
400	325	325	-	-	NSYMM44	NSYMF44	NSYMR44
600	625	325	-	-	NSYMM64	NSYMF64	NSYMR64
					<p>DB300658</p> <p>Example installation of a mounting plate in a console depth 200 mm.</p> <p>DB300659</p> <p>Example installation of a mounting plate in a console depth 300 mm.</p>		

# Human-Machine Interface Accessories

## Modular consoles

Combination examples of modular consoles installation	Compact control desk		Modular console		Blanking cover	
	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX
<b>W600 mm</b>						
	NSYSD6R	NSYSDX6	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	NSYRP2	NSYRPX2
	NSYSD6R	NSYSDX6	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	-	-
<b>W800 mm</b>						
	NSYSD8R	NSYSDX8	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	2 x NSYRP2	2 x NSYRPX2
	NSYSD8R	NSYSDX8	2 x NSYSDC42 / 2 x NSYSDC43	2 x NSYSDCX42 / 2 x NSYSDCX43	-	-
	NSYSD8R	NSYSDX8	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	NSYRP2	NSYRPX2
<b>W1000 mm</b>						
	NSYSD10R	NSYSDX10	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	3 x NSYRP2	3 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	2 x NSYRP2	2 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	2 x NSYRP2	2 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63	NSYSDCX42 + NSYSDCX62 / NSYSDCX43 + NSYSDCX63	-	-
<b>W1200 mm</b>						
	NSYSD12R	NSYSDX12	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	4 x NSYRP2	4 x NSYRPX2
	NSYSD12R	NSYSDX12	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	3 x NSYRP2	3 x NSYRPX2
	NSYSD12R	NSYSDX12	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	3 x NSYRP2	3 x NSYRPX2
	NSYSD12R	NSYSDX12	2 x NSYSDC62 / 2 x NSYSDC63	2 x NSYSDCX62 / 2 x NSYSDCX63	-	-
	NSYSD12R	NSYSDX12	NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63	NSYSDCX42 + NSYSDCX62 / NSYSDCX43 + NSYSDCX63	NSYRP2	NSYRPX2

SD SDX

## Floor

For more information, see page 92.

PB602578-30



PB602589-30







PB602800-17



PB602891-18



Characteristics	Front and rear plinth				Plinth side panels			
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.				They are fixed to the corner of the plinth by 2 fixing screws.			
Material	Folded steel, corner with a thickness of 25/10 <sup>o</sup> mm		304L stainless-steel		Folded steel		304L stainless-steel	
Finish	Painted with epoxy-polyester powder		-		Painted with epoxy-polyester powder		-	
Colour	RAL 7022 grey		-		RAL 7022 grey		-	
Ingress protection rating according to IEC 60529	IP30		IP30		IP30		IP30	
Mechanical protection rating according to IEC 62262	IK10		IK10		IK10		IK10	
Supply	<ul style="list-style-type: none"> <li>■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements</li> <li>■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements</li> <li>■ The use of 304L stainless-steel plinths on an SD control desk requires an earthing cable reference <b>NSYEL226D13</b> (description page 278) to be ordered separately.</li> </ul>				<ul style="list-style-type: none"> <li>■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements</li> <li>■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements</li> <li>■ The use of 304L stainless-steel plinths on an SD control desk requires an earthing cable reference <b>NSYEL226D13</b> (description page 278) to be ordered separately.</li> </ul>			
<b>Control desk references</b>	<b>Plinths references</b>							
<b>Compact control desks with fixed rear panel</b>	<b>100 mm</b>	<b>200 mm</b>	<b>100 mm</b>	<b>200 mm</b>	<b>100 mm</b>	<b>200 mm</b>	<b>100 mm</b>	<b>200 mm</b>
 NSYSD6	NSYSPPF6100	NSYSPPF6200	NSYSPPFX6100	NSYSPPFX6200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD8	NSYSPPF8100	NSYSPPF8200	NSYSPPFX8100	NSYSPPFX8200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD10	NSYSPPF10100	NSYSPPF10200	NSYSPPFX10100	NSYSPPFX10200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD12	NSYSPPF12100	NSYSPPF12200	NSYSPPFX12100	NSYSPPFX12200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
<b>Compact control desks with removable rear panel Sheet steel</b>								
 NSYSD6R	NSYSPPF6100	NSYSPPF6200	NSYSPPFX6100	NSYSPPFX6200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD8R	NSYSPPF8100	NSYSPPF8200	NSYSPPFX8100	NSYSPPFX8200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD10R	NSYSPPF10100	NSYSPPF10200	NSYSPPFX10100	NSYSPPFX10200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD12R	NSYSPPF12100	NSYSPPF12200	NSYSPPFX12100	NSYSPPFX12200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
<b>Compact control desks with removable rear panel Stainless-steel</b>								
 NSYSDX6	-	-	NSYSPPFX6100	NSYSPPFX6200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX8	-	-	NSYSPPFX8100	NSYSPPFX8200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX10	-	-	NSYSPPFX10100	NSYSPPFX10200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX12	-	-	NSYSPPFX12100	NSYSPPFX12200	-	-	NSYSPSX5100	NSYSPSX5200
<b>Control desk with console</b>								
 NSYSDF88	NSYSPPF8100	NSYSPPF8200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF108	NSYSPPF10100	NSYSPPF10200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF128	NSYSPPF12100	NSYSPPF12200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF168	NSYSPPF16100	NSYSPPF16200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF810	NSYSPPF8100	NSYSPPF8200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1010	NSYSPPF10100	NSYSPPF10200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1210	NSYSPPF12100	NSYSPPF12200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1610	NSYSPPF16100	NSYSPPF16200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-

# Human-Machine Interface Accessories

## Door



### Pneumatic opening stay

- Holds the desk lid in open position at an angle of 75°.
- **Supply:** delivered with fixings.

Nominal load per stay (N)	Max. load on lid (kg)	Control desk references				Standard supply stay
		With fixed rear panel	With removable rear panel		With console	
			Steel	Stainless-steel		
244	13	NSYSD6	NSYSD6R	NSYSDX6	NSYSDF88	NSYPLS24
		NSYSD8	NSYSD8R	NSYSDX8	NSYSDF810	NSYPLS24
300	11	-	-	-	NSYSDF168	NSYPLS30
		-	-	-	NSYSDF1610	NSYPLS30
	15	NSYSD12	NSYSD12R	NSYSDX12	NSYSDF128	NSYPLS30
		-	-	-	NSYSDF1210	NSYPLS30
	17	NSYSD10	NSYSD10R	NSYSDX10	NSYSDF108	NSYPLS30
		-	-	-	NSYSDF1010	NSYPLS30



### Document lip

- Retaining bar to be fixed on the front of the control desk lid. Prevents documents and equipment from falling.
- **Material:** PVC, RAL 7011 grey.
- **Fixing:** fixing by adhesive.

Control desk width (mm)	References
600	NSYDL6
800	NSYDL8
1000	NSYDL10
1200	NSYDL12
1600	NSYDL16

### Locking system



The Control desks are supplied with 3 mm double-bar escutcheon locks as standard.



Characteristics	Shape inserts	Escutcheon with key lock
	Possibility to replace the standard shape insert: <ul style="list-style-type: none"> <li>■ 8-mm triangular insert,</li> <li>■ 8-mm male square insert,</li> <li>■ 7-mm male square insert.</li> </ul>	Insert breakage torque: 15 daN.
Material	Zamack	Polyamide PA 6 material charged with 30 % fibreglass
Colour	-	RAL 7011 grey
Mechanical protection rating according to IEC 62262	-	IK10
Fire resistance	-	650°C
<b>References</b>		
8-mm triangular insert	<b>NSYTT8CRN</b>	-
8-mm male square insert	<b>NSYTC8CRN</b>	-
7-mm male square insert	<b>NSYTC7CRN</b>	-
405E key	-	<b>NSYML405SD</b>
Without insert	-	-



## Locking system



PB501217-38

## Pivoting handle

To be installed on the rear door of Control desk with console, replacing the flat escutcheon supplied as standard.  
Ergonomic locking system with pivoting handle (delivered without insert).  
Broad range of inserts for covering the greatest variety of needs (shape inserts, DIN cylinders, KABA, ASSA).  
Changing the opening direction to right / left thanks to the symmetric design of the lock unit (no linkages to be removed).  
Lock unit supported by 2 screws.

PA 6 charged with 30 % fibreglass

RAL 7011 grey

IK10

650°C

-

-

-

-

NSYSDH

## Accessories

PB500614-19



Shape inserts

Shape inserts	References
6-mm square insert	NSYINS61
6-mm female square insert	NSYINS6G1
7-mm square insert	NSYINS71
8-mm square insert	NSYINS81
8-mm female square insert	NSYINS8G1
8-mm square insert with slot	NSYINS8H1
6.5-mm triangular insert	NSYINT61
7-mm triangular insert	NSYINT71
8-mm triangular insert	NSYINT81
9-mm triangular insert	NSYINT91
10-mm triangular insert	NSYINT101
10-mm keyless hexagonal insert	NSYINH31
3-mm double-bar insert	NSYINDB31
5-mm double-bar insert	NSYINDB51
Daimler Benz insert	NSYINBENZ1
Fiat insert	NSYINFIAT1
USA keyless slot insert	NSYINUSA1
2 x 4 keyless slot insert	NSYIN241
Crown insert	NSYINCW1
Push button	Reference
Push button	NSYINPULSD

PB501218



Push button

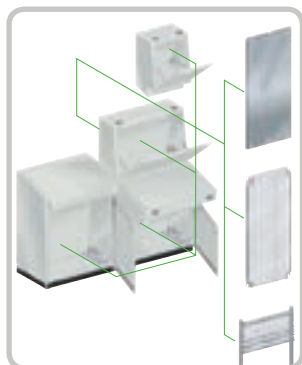
PB500616-18



Cylindrical barrels

Cylindrical barrels	References
Lock with 405E key	NSYIN405E1
Lock with 421E key	NSYIN421E1
Lock with 455 key	NSYIN4551
Lock with 1242E key	NSYIN1242E1
Lock with 1332E key	NSYIN1332E1
Lock with 2124E key	NSYIN2124E1
Lock with 2131A key	NSYIN2131A1
Lock with 2132A key	NSYIN2132A1
Lock with 2331A key	NSYIN2331A1
Lock with 2433A key	NSYIN2433A1
Lock with 2452E key	NSYIN2452E1
Lock with 3113A key	NSYIN3113A1
Lock with 3122E key	NSYIN3122E1
Lock with 3123A key	NSYIN3123A1
Lock with 3131A1 key	NSYIN3131A1
Lock with 3133A key	NSYIN3133A1
Lock with 3422E key	NSYIN3422E1
Lock with 3432E key	NSYIN3432E1
Lock with 6101 key	NSYIN6101
Lock with EDF 1300 key	NSYINF1301
Lock with EDF 1400 key	NSYINF1401
Michelin 8079 keyless lock	NSYINICHEL8791
Michelin 8133 keyless lock	NSYINICHEL8131
Michelin 8376 keyless lock	NSYINICHEL8371
E1 keyless lock	NSYINE11

PB501219-37



## Mounting accessories

	Compact control desks				Control desk with console							
Installation type												
Control desk	Mounting plates (1)											
Width (B) (mm)	Plain		Telequick		Plain		Telequick		Plain		Telequick	
	Surface (dm <sup>2</sup> )	References	Surface (dm <sup>2</sup> )	References	Surface (dm <sup>2</sup> )	References	Surface (dm <sup>2</sup> )	References	Surface (dm <sup>2</sup> )	References	Surface (dm <sup>2</sup> )	References
600	42	NSYPMP8560	34	NSYTMP6760	-	-	-	-	-	-	-	-
800	59	NSYPMP8580	48	NSYTMP6780	31	NSYPMP4580	30	NSYTMP4280	49	NSYPMP8580	48	NSYTMP6780
1000	76	NSYPMP85100	61	NSYTMP67100	40	NSYPMP45100	39	NSYTMP42100	63	NSYPMP85100	61	NSYTMP67100
1200	93	NSYPMP85120	75	NSYTMP67120	77	NSYPMP45120	39	NSYTMP42120	77	NSYPMP85120	75	NSYTMP67120
1600	-	-	-	-	67	NSYPMP45160	-	-	105	NSYPMP85160	-	-

	Control desk with console							
Installation type								
Control desk	Mounting plates							
Width (B) (mm)	Plain (1)		Telequick (2)		Plain		Telequick	
	Surface (dm <sup>2</sup> )	References	Surface (dm <sup>2</sup> )	References	Surface (dm <sup>2</sup> )	References	Surface (dm <sup>2</sup> )	References
600	-	-	-	-	-	-	-	-
800	90	NSYMP148	84	2 x NSYSTMP6080	28	NSYSPMP4080	-	-
1000	116	NSYMP1410	108	2 x NSYSTMP60100	36	NSYSPMP40100	-	-
1200	142	NSYMP1412	132	2 x NSYSTMP60120	44	NSYSPMP40120	-	-
1600	-	-	-	-	60	NSYSPMP40160	-	-

(1) For this installation, order a set of 4 adjustment rails and fixing brackets (see page 475).

(2) For this installation, order a set of 2 uprights ref. NSYTVR14 and set of 4 adjustment rails and 4 fixing brackets.

## Mounting accessories



Characteristics		Fixing brackets	Adjustment rails and fixing brackets	Technical uprights	PC screen support
		Set of 4 fixing brackets. Depth adjustment on 25 mm pitch. Included as standard with desk (all versions). To be ordered separately when required for installation of two back to back mounting plates in control desks with rear access.	Set of 4 rails and 4 fixing brackets. To install a plain mounting plate or a Telequick mounting plate, either at the top or across the height of the monobloc control desk with console. For positioning 2 plates (back to back), order fixing brackets ref. <b>NSYMPBSD</b> .	Set of 2 equipment uprights. Support for fixing Telequick mounting plates and rails.	For a control desk with monobloc console with a depth of 600 mm. This support is a galvanised mounting plate, in horizontal position, fixed to the adjustment rails of the console.
Material		Galvanised steel	-	Zinc-coated	-
Thickness		40/10° mm	-	20/10° mm	-
Maximum load		250 kg	-	-	50 kg/m <sup>2</sup>
Supply		-	-	-	Delivered with fixings
References					
For desk width (mm)					
600		<b>NSYMPBSD</b>	-	-	-
800		<b>NSYMPBSD</b>	-	-	<b>NSYPCS8</b>
1000		<b>NSYMPBSD</b>	-	-	<b>NSYPCS10</b>
1200		<b>NSYMPBSD</b>	-	-	<b>NSYPCS12</b>
1600		<b>NSYMPBSD</b>	-	-	<b>NSYPCS16</b>
For control desks with console Depth (mm)					
400		-	<b>NSYMPB4SD</b>	-	-
600		-	<b>NSYMPB6SD</b>	-	-
For control desk height (mm)	Centre-to-centre distance (mm)				
1000	650	-	-	<b>NSYTVR8</b>	-
1400	1250	-	-	<b>NSYTVR14</b>	-

# Human-Machine Interface

## Introduction

➤ The **Spacial SF PC rack** is designed to protect and control computer equipment in an industrial environments.

PB500501-54



### Steel PC racks

PB500684-28



#### Convenience

- Anti-glare glazed door designed for viewing until 25,5" screens.
- Cable entry made easier by a cable-land plate in 2 pieces.

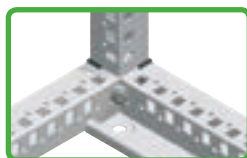
PB500685-28



#### Ergonomics

- Access to the various functions and working heights, guaranteeing optimum comfort.
- Partial doors delimit the access to each function with a 3 mm double-bar lock.
- Built-in screen and CPU support.
- Built-in keyboard and mouse support.

PB500490-35



#### Robust

- Structure formed from a single 15/10e-mm galvanised-steel section, with a high rigidity.
- Vertical uprights screwed together with connections of full steel. Placement and screwing of the 4 vertical uprights at the corners of the top and bottom frames. Fixing by 8 screws, one at each corner of the enclosure.
- Capable of withstanding 1000 kg distributed in its volume.

PB500485-21



#### Simple

The Spacial SF design allows enclosures to be coupled in any direction, adapting to all installation surfaces.

PB500687-35



#### Locking system

Locking system with flat escutcheon, made from polyamide 6 with 30 % fibreglass, RAL 9005 black, with 5 mm double-bar insert for the plain rear door, and small flat escutcheon with 3 mm double-bar insert for the partial front doors.

*Detail of 5 mm DB lock on rear door.*

**This range can be configured according to your needs**

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

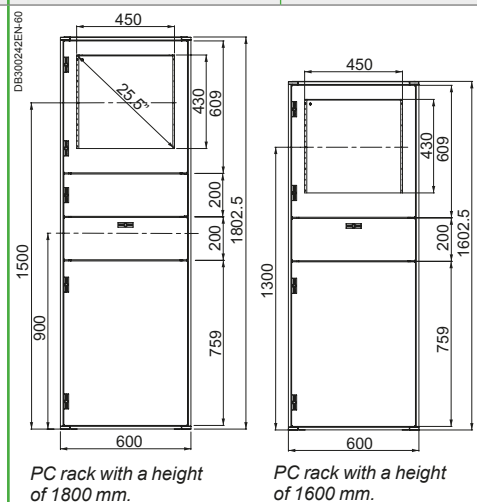
See page 488 for details or consult our web site [www.se.com](http://www.se.com)

# Human-Machine Interface Characteristics



PF8500208-ZT

Characteristics		Spacial SF PC rack		
		<ul style="list-style-type: none"> <li>■ Partial door for PC screen, with Securit® anti-glare glass.</li> <li>■ Plain partial door for CPU (enclosures with height of 1800 mm).</li> <li>■ Hinged plain door for keyboard.</li> <li>■ Plain partial door for optional installation of A4 printer support.</li> <li>■ Partial front doors opening to the right.</li> <li>■ Plain rear door, reversible opening direction (right or left).</li> <li>■ Roof and side panels fixed from the inside.</li> <li>■ Cable-gland plate with 1 entry.</li> </ul>		
Finish		Structured finish, epoxy-polyester powder		
Colour		RAL 7035 grey		
Ingress protection rating according to IEC 60529		IP40		
Mechanical protection rating according to IEC 62262		IK10		
Certifications		UL 508A Types 1, 12 and CUL		
Height (mm)	Width (mm)	Depth (mm)	No. of compartments	References
1600	600	600	3	<b>NSYSF16660PC</b>
		800	3	<b>NSYSF16680PC</b>
1800	600	600	4	<b>NSYSF18660PC</b>
		800	4	<b>NSYSF18680PC</b>



# Human-Machine Interface Accessories

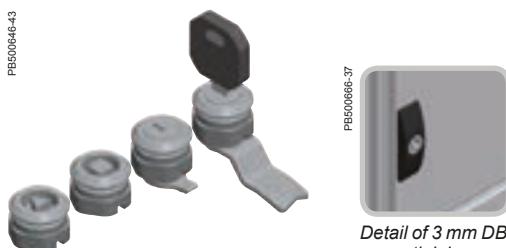
## Plinth



Characteristics	Front plinth	Plinth side panels
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.
Material	Folded sheet steel, corner with a thickness of 25/10° mm	Folded sheet steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7022 grey	RAL 7022 grey
Ingress protection rating	IP30 according to IEC 60529	IP30 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262
Installation	-	-
Supply	<ul style="list-style-type: none"> <li>■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements</li> <li>■ Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements</li> </ul>	<ul style="list-style-type: none"> <li>■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements</li> <li>■ Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements</li> </ul>

References					
Width (mm)	Depth (mm)	100 mm		200 mm	
		600	600	NSYSPF6100	NSYSPF6200
	800			NSYSPS8100	NSYSPS8200

## Locking system

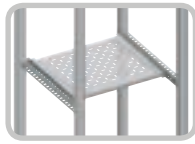


Detail of 3 mm DB lock on partial door.

Characteristics	Locks for partial doors			
	Locks to replace the 3 mm double-bar lock supplied with the partial doors. Models: <ul style="list-style-type: none"> <li>■ Transformation of lock with shape inserts, triangular 6.5 mm and square 6 mm.</li> <li>■ Lock with 2233X key for partial doors.</li> <li>■ Lock with 2233X key, exclusive for hinged keyboard door.</li> </ul>			
Supply	<ul style="list-style-type: none"> <li>■ Lock with shape inserts, triangular 6.5 mm and square 6 mm: metal body, shape insert and safety washer.</li> <li>■ Lock with 2233X key for partial doors: metal body, insert, bolt, safety washer and key.</li> <li>■ Lock with 2233X key, exclusive for hinged keyboard door: metal body, insert, special bolt, safety washer and key.</li> </ul>			
References	With 6.5 mm triangular insert for partial and hinged door	With 6 mm square insert for partial and hinged door	With 2233X key for partial door	With 2233X key for hinged keyboard door
	NSYMLT6	NSYMLS6	NSYML23	NSYMLCD23

# Human-Machine Interface Accessories

## Trays



Fixed Trays				Telescopic Trays					
<ul style="list-style-type: none"> <li>Optional installation of a supplement fixed or telescopic tray directly on structure or on cross rails.</li> <li>Acceptable load: 150 kg for fixed trays and 50 kg for telescopic rails, both evenly distributed.</li> <li>See more details and other options on Mounting: trays, page 228.</li> </ul>									
-				-					
-				-					
-				-					
-				-					
-				-					
On structure		On cross rails		On structure		On cross rails			
-		-		-		-			
Tray	Tray	Universal cross rail 40 mm (1 row)	Quick cross rail 40 mm (1 row)	Tray	Telescopic rails	Tray	Telescopic rails	Universal cross rail 40 mm (1 row)	Quick cross rail 40 mm (1 row)
NSYFXT6060	NSYFXT6060	NSYSUCR4060	NSYSQCR4060	NSYFXT6060	NSYTTG60	NSYFXT6060	NSYTTG60	NSYSUCR4060	NSYSQCR4060
-	NSYFXT6060	NSYSUCR4080	NSYSQCR4080	-	-	NSYFXT6060	NSYTTG60	NSYSUCR4080	NSYSQCR4080

## Other accessories



Characteristics	Handle for telescopic trays
	Handle designed for easy extraction of the sliding trays.
Material	Polyamide 6 (black)
Supply	2 units and fixing elements
Reference	NSY1TH

# Human-Machine Interface

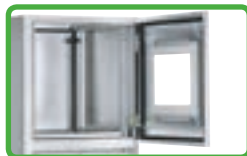
## Introduction

> The **stainless-steel monobloc PC racks** have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid.



### Stainless-steel monobloc PC racks

PB501223-69



#### Convenience

- Anti-glare glazed door designed for viewing 14" and 17" screens by removing part of the silkscreen printing.
- Cable entry made easier by a cable-gland plate (at the rear) in 2 pieces.

PB501223-108



#### Sealing

- IP55, even with the keyboard drawer open, thanks to the pivoting Plexiglas shutter.

PB501223



#### Optional accessories

- Shelf mounted on telescopic rails.

PB501266-32



#### Ergonomic

- Partial doors delimit the access to each function with a 3-mm double-bar lock.
- Access to the various functions and working heights, guaranteeing optimum comfort.
- Built-in screen and CPU support.
- Built-in mouse support.

PB501223-107



#### Hygiene

- The high quality of the standard finish enables very easy maintenance while avoiding contamination.
- The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures, ref. **NSYPHX200**.

More information on page 131 and 271.

PB501233-32



#### Resistance to corrosion

- High resistance to corrosion. 304L and 316L stainless-steels provide the best solutions for applications in extremely demanding environments.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 488 for details or consult our web site [www.se.com](http://www.se.com)



# Human-Machine Interface

## Characteristics, accessories



Characteristics			304L stainless-steel PC racks	Front plinth	Plinth side panels							
			<p><b>Composition</b></p> <ul style="list-style-type: none"> <li>■ Top and bottom partial doors on the front side.</li> <li>■ Pivoting panel for the keyboard.</li> <li>■ Plain rear door.</li> </ul> <p><b>Monitor-screen compartment</b></p> <ul style="list-style-type: none"> <li>■ The anti-glare glazed door is designed for viewing screens:                             <ul style="list-style-type: none"> <li>□ 14" as standard,</li> <li>□ 17" by removing a part of the silkscreen printing.</li> </ul> </li> <li>■ The height of the monitor support can be adjusted.</li> <li>■ The monitor shelf can withstand a maximum weight of 50 kg.</li> </ul> <p><b>CPU / keyboard compartment</b></p> <ul style="list-style-type: none"> <li>■ The keyboard fixed to the inside becomes operational by tilting the central panel.</li> <li>■ The CPU is placed on a height-adjustable shelf, visible and accessible through a pivoting, transparent shutter.</li> </ul> <p><b>Optional accessories</b></p> <ul style="list-style-type: none"> <li>■ Hygienic feet H 200 mm: <b>NSYPHX200</b>.</li> <li>■ Shelf installed on a sliding rail, with adjustable height.</li> <li>■ Telescopic tray: <b>NSYTTG60</b>.</li> </ul>	<p>The front and rear of the plinth consists of 4 corners with 2 or 4 panels.</p>	<p>They are fixed to the corner of the plinth by 2 fixing screws.</p>							
Material			Monobloc structure in 304L stainless-steel sheet, micro-beaded finish. Can be made in 316L stainless-steel on request	304L stainless-steel	304L stainless-steel							
Ingress protection rating according to IEC 60529			IP55, even with the keyboard drawer open	IP30	IP30							
Mechanical protection rating according to IEC 62262			IK10	IK10	IK10							
Supply			-	<ul style="list-style-type: none"> <li>■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements</li> <li>■ Height 200 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements</li> </ul>	<ul style="list-style-type: none"> <li>■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements</li> <li>■ Height 200 mm: 2 side panels, 4 corner covers and fixing elements</li> </ul>							
Height (mm) (A)	Width (mm) (B)	Depth (mm) (C)	References	100 mm	200 mm	100 mm	200 mm					
1600	600	600	<b>NSYSMX16660PC</b>	<b>NSYSPFX6100</b>	<b>NSYSPFX6200</b>	<b>NSYSPSX6100</b>	<b>NSYSPSX6200</b>					
1800	600	600	<b>NSYSMX18660PC</b>	<b>NSYSPFX6100</b>	<b>NSYSPFX6200</b>	<b>NSYSPSX6100</b>	<b>NSYSPSX6200</b>					
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>A</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>1600</td> <td>690</td> </tr> <tr> <td>1800</td> <td>890</td> </tr> </tbody> </table> <p>(1) Screwed shelf, adjustable height. (2) Sealed case for keyboard.</p>			A	D	1600	690	1800	890				
A	D											
1600	690											
1800	890											

# Variable speed drive flush-mounting kits

## Introduction

➤ The variable speed drive flush-mounting kits have been designed to isolate the power part, which is an important source of heat. They are mounted in the Spacial range of steel enclosures (floor-standing and wall-mounting enclosures) and have been approved for Altivar Process variable speed drives in the ATV630 and ATV930 ranges (power range: 0.75 to 45 kW at 200/240 V, 0.75 to 90 kW at 380/480 V).

➤ The kits are available in five sizes and offer two methods of mounting variable speed drives:

- slide-rail mounting for sizes 1, 2 and 3
- bracket mounting for sizes 4 and 5.

➤ The kits can be installed:

- at the back of the enclosure. This installation provides full thermal insulation



### Tightness

IP55 according to IEC 60529 with polyurethane seal provided.



### Ease of installation

Set of slide-rails allowing the variable speed drive to be mounted quickly and efficiently.



### Strength

The rigidity of the kit allows it to be installed on Spacial S3D, SF and SM enclosures.

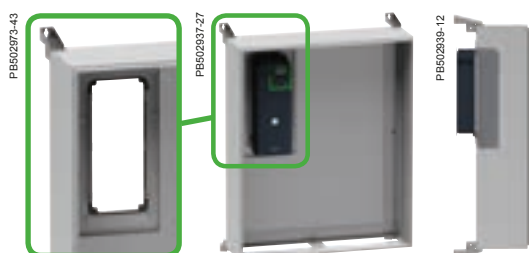


### Earth continuity

Earth continuity is ensured by tightening the M6 nuts associated with pin washers.

### Maintenance of the variable speed drive fan (kit sizes 4 and 5)

Easy front-panel maintenance for fan servicing.



### Configured offer

### Services

Possibility of cut-outs (enclosure and frame) by Schneider Electric: no risk of corrosion and cuts (cut-out made before painting).

- inside the enclosure on a mounting plate. This installation may require the addition of a thermal control.



# Variable speed drive flush-mounting kits

## Characteristics



Sizes 1, 2 and 3.



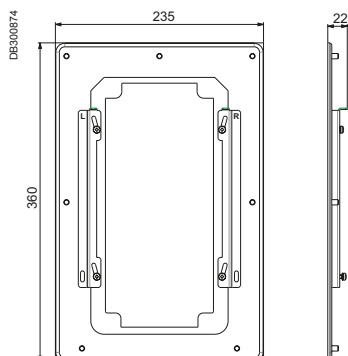
Sizes 4 and 5.

Characteristics					Mounting kits					
					Variable speed drive installation kits allowing the hot part to be isolated.					
Material					Steel					
Finish					■ Structured finish, epoxy-polyester powder					
Colour					RAL 7035 grey					
Ingress protection rating according to IEC 60529					IP55					
Mechanical protection rating according to IEC 62262					-					
Certifications					UL 508A types 1, 3R and 12.					
Supply					<b>Sizes 1, 2 and 3:</b> <ul style="list-style-type: none"> <li>■ Painted steel plate with cut-out fitted with two slide-rails + adhesive seal + 7 to 9 M6 studs for kit mounting</li> <li>■ Protection seal profile supplied for frame cut-out</li> <li>■ Enclosure drilling template</li> </ul> <b>Sizes 4 and 5:</b> <ul style="list-style-type: none"> <li>■ Painted steel plates with cut-out fitted with painted mounting brackets + screws and nuts for fixing the brackets and the kit</li> <li>■ Protection seal supplied for frame cut-out</li> <li>■ Enclosure drilling template</li> <li>■ Fan support for ease of maintenance</li> <li>■ Protective cover</li> </ul>					
Dimensions (mm)			Sizes	Compatibilities						References Kits
H	L	P		Enclosures	Variable speed drives					
					ATV340 380/480 V	ATV630 200/240 V	380/480 V	ATV930 200/240 V	380/480 V	
360	235	22	1	S3D, SF, SM	-	ATV630U07M3 ATV630U15M3 ATV630U22M3 ATV630U30M3 ATV630U40M3	ATV630U07N4 ATV630U15N4 ATV630U22N4 ATV630U30N4 ATV630U40N4 ATV630U55N4	ATV930U07M3 ATV930U15M3 ATV930U22M3 ATV930U30M3 ATV930U40M3	ATV930U07N4 ATV930U15N4 ATV930U22N4 ATV930U30N4 ATV930U40N4 ATV930U55N4	NSYPTDS1
420	265	22	2	S3D, SF, SM	-	ATV630U55M3	ATV630U75N4 ATV630D11N4	ATV930U55M3	ATV930U75N4 ATV930D11N4	NSYPTDS2
555	295	22	3	S3D, SF, SM	-	ATV630U75M3 ATV630D11M3	ATV630D15N4 ATV630D18N4 ATV630D22N4	ATV930U75M3 ATV930D11M3	ATV930D15N4 ATV930D18N4 ATV930D22N4	NSYPTDS3
800	385	151,5	4	SF, SM	ATV340D30N4E ATV340D37N4E	ATV630D15M3 ATV630D18M3 ATV630D22M3	ATV630D30N4 ATV630D37N4 ATV630D45N4	ATV930D15M3 ATV930D18M3 ATV930D22M3	ATV930D30N4 ATV930D37N4 ATV930D45N4	NSYPTDS4
975	427	205,5	5	SF, SM	ATV340D45N4E ATV340D55N4E ATV340D75N4E	ATV630D30M3 ATV630D37M3 ATV630D45M3	ATV630D55N4 ATV630D75N4 ATV630D90N4	ATV930D30M3 ATV930D37M3 ATV930D45M3	ATV930D55N4 ATV930D75N4 ATV930D90N4	NSYPTDS5

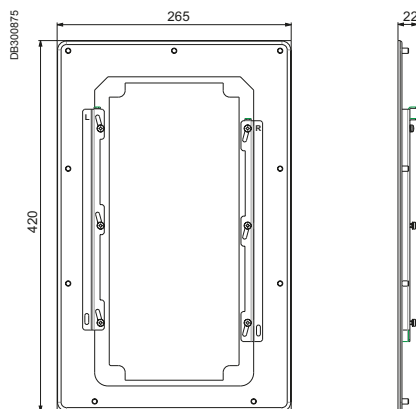
# Variable speed drive flush-mounting kits

## Dimensions

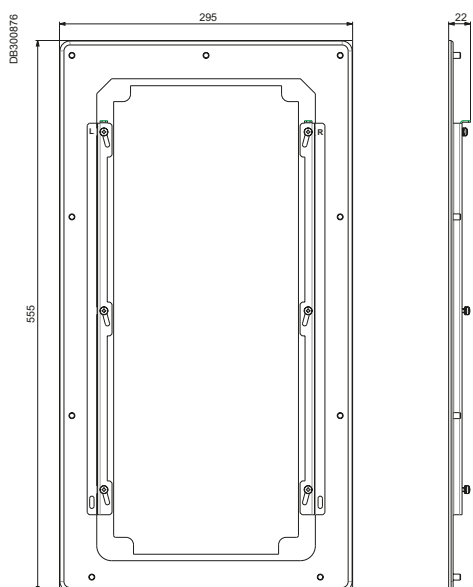
**NSYPTDS1**



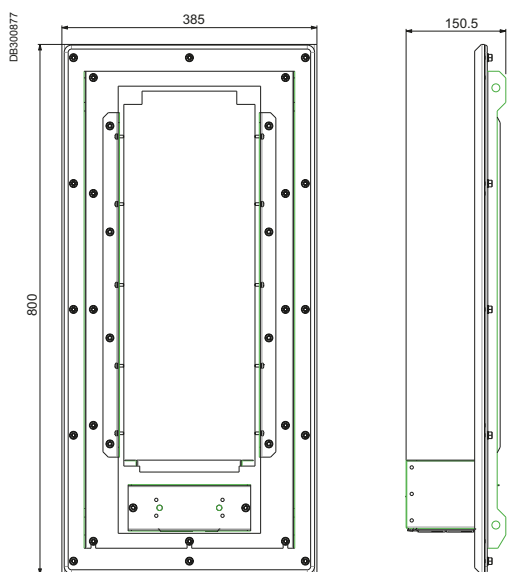
**NSYPTDS2**



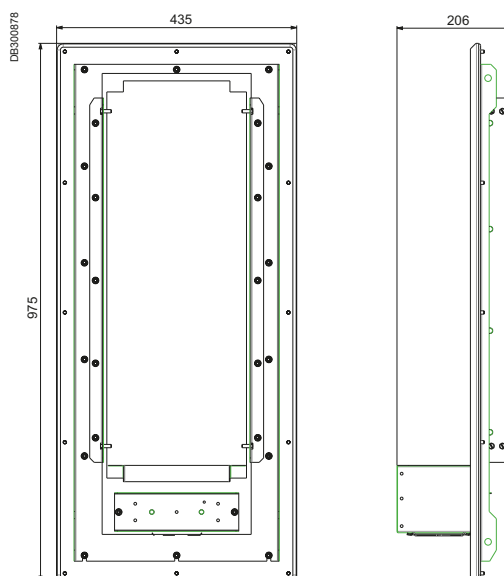
**NSYPTDS3**



**NSYPTDS4**



**NSYPTDS5**



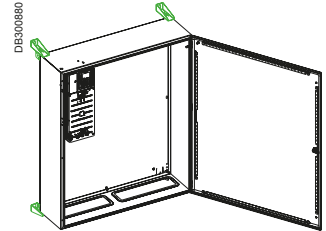
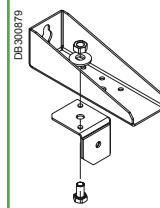
# Variable speed drive flush-mounting kits

## Mounting accessory

PB502M45-57



Characteristics		Wall-mounting enclosure fixing lug	
Maximum load		105 kg	
Material		Painted steel RAL 7035	
Supply		Set of 4 lugs and brackets + fasteners	
Wall-mounting enclosure Dimensions (mm)		References	
Height	Width	Variable speed drive flush-mounting kits	Fixing lug
≥ 400	≥ 300	NSYPTDS1	NSYAEFPFPTD
≥ 500	≥ 300	NSYPTDS2	
≥ 600	≥ 400	NSYPTDS3	



# Automobile application

## Introduction

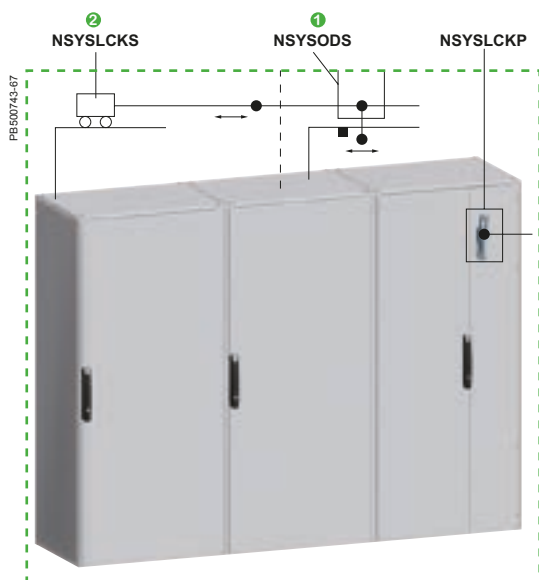
- The door of the "incoming" enclosure is interlocked by the control of the main switch or circuit breaker. A built-in interlocking system with runner rods prevents the opening of the "outgoing" enclosure doors. Access is only allowed when the main switch or circuit breaker is in "O" position and the main door is open. Manual activation of the rods unlocks the other doors and allows access.
- Designed to be associated with certain circuit breakers or switches:
  - Square D (9422 A1).
  - Schneider Electric.
- The system is limited for configurations up to 4 columns.

PB500745-32



### Secure

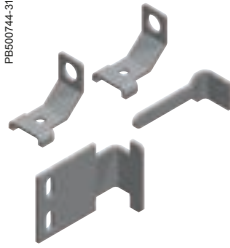
The built-in secure interlocking system for the door (on demand) of the "incoming"/"outgoing" enclosures allows Spacial SF enclosures to be adapted to the requirements of the American car industry.



# Automobile application

## Characteristics

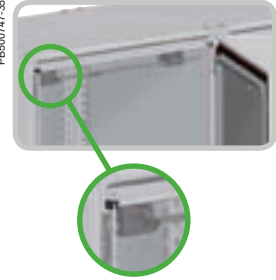
PB500744-31



PB500746-43



PB500747-35



Characteristics	Interlocking for main door	Activation for secondary doors	Interlocking for secondary doors								
	<ul style="list-style-type: none"> <li>■ System for unlocking the main door adapted to the switches:                             <ul style="list-style-type: none"> <li>□ Allen Bradley (1494 VH11).</li> <li>□ Square D (9422 A1).</li> <li>□ Siemens (FH0H).</li> <li>□ Schneider Electric.</li> </ul> </li> <li>■ Unlocks the main door when the switch is in the open position "O".</li> <li>■ The main door interlocking system requires the ordering of both references:                             <ul style="list-style-type: none"> <li>□ ① Activation for secondary doors.</li> <li>□ ② Interlocking for secondary doors.</li> </ul> </li> </ul>	<p>System installed in the main enclosure. Activated by manual operation, preventing the opening of the secondary enclosures connected to one another by runner rods.</p> <p>It has a secure function which consists of a part that forces the system into the position in which the secondary enclosures are locked in order to lock the main door.</p>	<p>System for interlocking the outgoing enclosures connected to one another by runner rods that lock their doors.</p>								
Material	Steel	<ul style="list-style-type: none"> <li>■ Mechanism: zinc-coated steel</li> <li>■ Activation handle: black plastic</li> </ul>	Steel								
Finish	Zinc-coated	-	Zinc-coated								
Fixing	-	-	Fixing to the structure of the enclosures by screws								
Supply	2 brackets for fixing the configured panel, interlocking elements, switch and fixings. Configured panel and switch not included.	Elements for activating the main door and fixings. For the complete function, both activation ① and interlocking systems ② need to be ordered.	Elements for interlocking the secondary doors and fixings. For the complete function, both activation ① and interlocking systems ② need to be ordered according to the enclosure width.								
<b>References</b>	<b>NSYSLCKP</b>	<b>NSYSODS</b>	<table border="1"> <thead> <tr> <th>Width (mm)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>600</td> <td>NSYSLCKS6</td> </tr> <tr> <td>800</td> <td>NSYSLCKS8</td> </tr> <tr> <td>1000</td> <td>NSYSLCKS10</td> </tr> </tbody> </table>	Width (mm)	References	600	NSYSLCKS6	800	NSYSLCKS8	1000	NSYSLCKS10
Width (mm)	References										
600	NSYSLCKS6										
800	NSYSLCKS8										
1000	NSYSLCKS10										

PB500745-22



The fixed panel in this example must be ordered through our customised service.

# Customised solutions

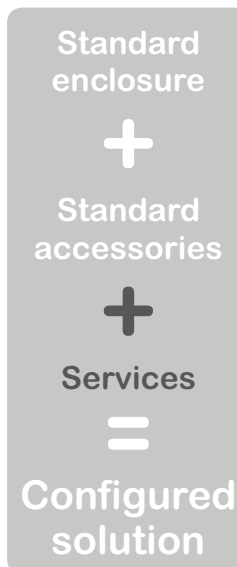
## Configured offer

## Introduction



Configured

PB602737-1



The configured offer is a standard offer enriched by **4 services**

The customized solutions either Configured or Specific, uses existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications to be done upon enclosures and/or accessories, they could affect the certification/declarations of conformity existing in the standard ranges. Additional certifications & declarations of conformity for customized solutions, must be defined under request prior as part of offering specification stage.



### Assemble to order

- Change cladding composition (panels, doors...)
- Merge and assemble several enclosures (only for Spacial SF and Thalassa PLA)
- + Enclosure composition 100 % according to customer needs
- + Avoids need of qualified technicians to merge enclosures



### Painting

- Enclosure painting color selection (choice of 38 RAL colours)
- Coating's raw material modification (e.g.: zinc, etc.)
- + Industrial painting ensures the best protection
- + Totally customized



### Machining

- Make square and circle cut-outs **before** painting the enclosure (body, cable gland plate, sides) and mounting plates
- + Ensures safety and best protection against rust
- + The enclosure is ready to be equipped



### Mounting of standard accessories

- Pre-installation of accessories inside or out-side of the enclosure (ex.: mounting plate, plinth, canopy, etc.)
- + Enclosure ready to be equipped

**Minimum order:** 1 to 5, depends on type of enclosure.

**Manufacturing time:** 3 to 10 days, depends on offer type.

**Delivery time:** It could vary according to destination, please consult us for further information.



# Customised solutions

## Configured offer

# Spacial.conf configuration tool

**Spacial.conf** is the configuration tool to be used to place your order. It gives you several benefits:

## > Consistency & error free

- One configurator for 14 countries & all configurable offers
- Compatibility between enclosure & accessories

## > Time saving & flexibility

- Users can indicate machining requests directly on our DXF drawing
- Price optimisation (depends on quantity)
- Manufacturing time adapted to each offer

## > Autonomy & facility

- Availability of both on-line & off-line versions
- Illustrated products help you in your choice
- FAQ information for faster understanding

## > Information back-up

- All data are provided to registered users (quotation, technical datasheet, etc.)
- Reusable smart code

## Your order in 5 steps with Spacial.conf:

### 1 - Select country & language

- 14 countries
- 4 languages



### 2 - Select enclosure

- Select product range
- Select material
- Select enclosure type

### 3 - Select accessories

- Composition accessories
- Mounting accessories
- Thermal accessories

### 4 - Select services

- Mounting
- Machining
- Painting
- Assembly

### 5 - Validation & send offer

- Order summary
- Send order to get quotation confirmation from local sales representative

Have a smartphone or a tablet? Scan this >



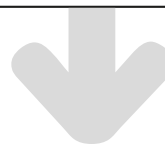
# Customised solutions

## Specific offer

## Introduction



Specific



# 20

## experts

specialized on  
different materials  
and different  
products



## The specific offer allows you to have a tailor-made product

- > Special dimensions, special needs for thermal system, special components adaptation, etc. All possibilities are open.
- > You can choose to modify any of our standard products (boxes or enclosures, wall-mounting or floor-standing) or start from a newly designed solution.
- > Co-engineer your solution with our design and engineering team (20 experts entirely dedicated to your specific needs).

### ★ Examples of Specific solution



- Special dimension
- Cut-outs on the body and the doors



- Cable-entry & door adaptation
- Special door shape

# Customised solutions

## Specific offer

---

## What to take into account

This page will help you define your needs for enclosure and streamline your design process. You will then need to contact your sales representative.

### Step 1

#### Environment in which you'll install the enclosure(s)

- > Airborne debris; temperature variations; UV rays?
  - > Indoor or outdoor use?
  - > In wash down environment?
  - > In high traffic environment?
- 

### Step 2

#### Application(s) needs of your enclosure(s)

- > Access control; building automation; motor & motion control?
  - > Need to protect against electromagnetic disturbances?
  - > Use in potentially explosive atmospheres?
- 

### Step 3

#### Enclosure(s) description

- > Type of enclosure's installation?
  - > Total weight of equipments in the enclosure?
  - > Design: color / coating / finish / dimension?
  - > Body components' adaptations: cable entry / mounting plate?
  - > Thermal management adaptations?
  - > Other accessories adaptations?
  - > Additional information: labeling / packaging / logistic?
- 

### Step 4

#### Business profile

- > Total quantity of enclosures needed and quantity per batch?
  - > Frequency of your order: single order / repeat order?
  - > Delivery time and method demand?
  - > Stock needs?
  - > Other comments?
-

# Thermal management system

# Thermal management system

## Contents

	<b>ClimaSys</b>	<b>494</b>
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	<b>ClimaSys CV</b> <b>New</b> Smart Ventilation Systems Ventilation Systems	<b>498</b>
	<b>ClimaSys CE</b> Exchangers	<b>528</b>
	<b>ClimaSys CU</b> Cooling Units	<b>539</b>
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	<b>Method to determine a thermal management solution</b>	<b>570</b>

# Thermal management system Presentation



PB503832

## Thermal problems in enclosures

### Evolution of the electrical switchboard

An electrical switchboard is an assembly formed of the following components:

- The enclosure;
- Switchgear and controlgear;
- Electrical conductors; and
- Miscellaneous functions (indications, controls, information processing).

It has evolved in three directions:

- Enclosures increasingly made of insulating materials;
- Switchgear and controlgear incorporating more and more electronics which concentrates a growing number of functions in an increasingly small volume;
- An increasingly high filling rate.

Industrial safety studies, a concept which covers:

- The safety of personnel and equipment;
- The availability of electric power;

show that this is one of the critical points of all industrial and service-sector activities. Its operation must therefore be perfectly under control; and this control must concern not only the operation of its components but also their operating conditions in a given environment.

### Temperature and humidity in the enclosure

Analysis of the malfunctions and stoppages of an electrical installation shows that they are mostly of thermal origin: temperature too high or too low inside the enclosure.

The rise in the average temperature, which may exceed the limits tolerated by the equipment, can be explained by the changes in electrical switchboards:

- Use of insulating materials for the enclosure, which limits heat removal;
- -Widespread adoption of electronics and a higher filling rate increase the temperature.

This overheating may concern only certain areas: hot spots.

The excessively low temperature is due to installation of the electrical switchboard in a very cold environment. It can cause the formation of condensation, a phenomenon which is harmful for the equipment.

### Consequences

The presence of humidity or an excessively high temperature inside the enclosure can cause numerous malfunctions:

- Nuisance tripping of protective devices;
- Fire inside the enclosure;
- Burns for the users;
- Premature equipment ageing;

The consequence of these malfunctions is an increase in the installation's operating costs:

- Maintenance costs,
- Costs entailed by stoppage of the installation.

## Solution: thermal management

### Objective

The thermal management solution adopted shall:

- Maintain the temperature and the humidity level inside the enclosure at values corresponding to normal operation of the equipment.
- Establish a uniform temperature to prevent hot spots.

### Choice of solution

The products constituting the thermal management solution are chosen by producing the thermal balance of the installation. This comprises 2 parts:


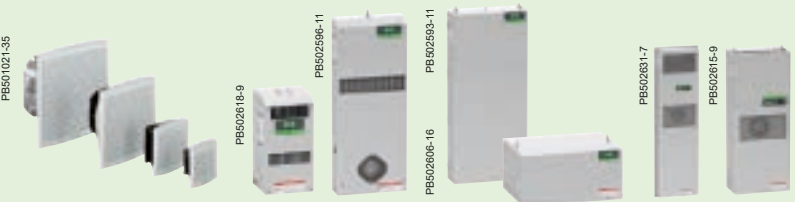





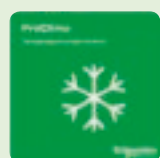
- Thermal balance inside the enclosure;
- Evaluation of the climatic conditions (temperature, humidity level) or environmental conditions (pollution) of the place in which the electrical switchboard is located.

### The Schneider Electric solutions

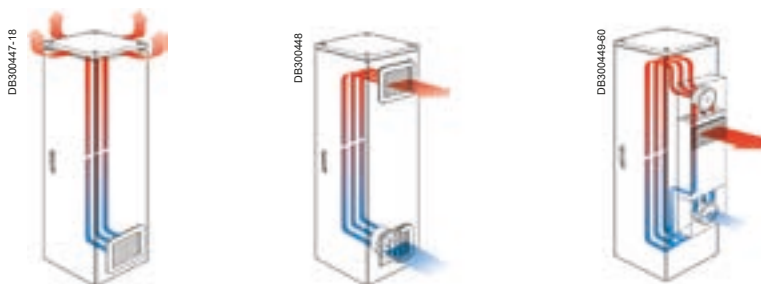
With the ClimaSys range Schneider Electric proposes a comprehensive offer meeting all needs:

- Airing
- Cooling
- Heating
- Regulating
- Homogenizing (air circulation)

Schneider Electric also proposes a thermal design software program, ProClima, which produces the thermal balance and proposes one or more thermal management solutions.

	Smart ClimaSys	ClimaSys
Cooling	<p><b>New</b></p>  <p>PB500250-34</p> <p><b>Smart ventilation systems</b></p>	 <p>PB501021-35</p> <p>PB502016-9</p> <p>PB502596-11</p> <p>PB502593-11</p> <p>PB502806-16</p> <p>PB502831-7</p> <p>PB502815-9</p> <p><b>Forced ventilation systems</b></p> <p><b>Air-air exchangers</b></p> <p><b>Air-water exchangers</b></p> <p><b>Cooling units</b></p>
Heating		 <p>PB501026-12</p> <p>PB501027-12</p> <p>PB501029-8</p> <p>PB502042-4</p> <p><b>Resistance heaters</b></p>
Controlling	<p><b>New</b></p>  <p>PB503542</p> <p>PB503568</p> <p><b>Smart thermal control accessories</b></p>	 <p>PB501160-24</p> <p>PB501168-24</p> <p>PB501172-25</p> <p>PB501182-25</p> <p>PB502624</p> <p>PB502623</p> <p>PB502513</p> <p><b>Thermal control accessories</b></p>
Thermal data	 <p>PB503401-17</p> <p>PB503318-21</p> <p><b>Diagnostic tools</b></p>	 <p>DB501274</p> <p><b>Efficlina software</b></p>  <p>PB500011-33</p> <p><b>Proclima software</b></p>

# Thermal management system Solutions overview

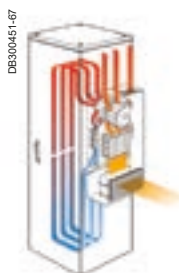


	Homogenize		Cool	
Solution	Air circulation	Natural ventilation	Forced ventilation	Air-air exchanger
Description	Stirring fan inside the enclosure.	Air circulation achieved by installing grids (side or roof-mounted) with or without filter, or by elevating the roof.	A fan (with or without filter) sucks fresh air from outside to inside the enclosure, thereby creating a slight overpressure which causes removal of the hot air through an outlet grid. The air circulation homogenizes the temperature and the overpressure prevents dust from entering. Side or roof mounting. Can be combined with a thermostat.	Cooling system provided with an aluminum exchange coil to separate the internal and external air circuits, two centrifugal fans to blow in the air circuits, and a thermostat to regulate the temperature in the enclosure. Side or roof mounting.
Use	Prevent hot spots.	Low power to be dissipated. Dusty environment.	High power to be dissipated. Dusty and non- hazardous environment. Prevent hot spots.	Medium power to be dissipated. Corrosive environment (food processing industry). Relatively cold environment (about 25°C).
Temperature conditions *	None	$T_d > T_a + 5^\circ\text{C}$	$T_d > T_a + 5^\circ\text{C}$ $3^\circ\text{C} < T_a \leq 35^\circ\text{C}$	$T_d > T_a + 10^\circ\text{C}$
Independent internal and external air circuits?	No	No	No	Yes
Advantages	<ul style="list-style-type: none"> <li>Uniform temperature inside the enclosure.</li> </ul>	<ul style="list-style-type: none"> <li>Very economical solution</li> <li>Easy maintenance</li> <li>Easy, fast installation.</li> </ul>	<ul style="list-style-type: none"> <li>Economical solution</li> <li>Easy maintenance</li> <li>Easy, fast installation</li> <li>Uniform temperature inside the enclosure</li> <li>Guaranteed level of protection up to: IP55 (IP54 for roof models).</li> </ul>	<ul style="list-style-type: none"> <li>Easy maintenance (no filter)</li> <li>Far lower maintenance frequency than for fans</li> <li>IP55 guaranteed.</li> </ul>
Disadvantages		<ul style="list-style-type: none"> <li>Low power dissipated</li> <li>Reduction in the degree of protection IP</li> <li>Risk of ingress of particles and dust if no filter.</li> </ul>	<ul style="list-style-type: none"> <li>Internal temperature always higher than the external temperature</li> <li>Maintenance required: change of filters.</li> </ul>	<ul style="list-style-type: none"> <li>Internal temperature always higher than the external temperature.</li> </ul>
Illustration		<p>Outlet grids</p>	<p>Fans</p>	<p>Air-air exchangers</p>

\* $T_a$  = ambient temperature (outside the enclosure)  
 $T_d$  = desired temperature inside the enclosure



# Thermal management system Solutions overview



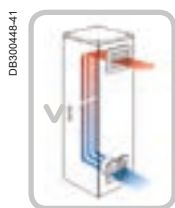
Cool		Heat	
<p><b>Air-water exchanger</b></p> <p>Cooling system provided with an exchange coil supplied with cold water and separated from the internal air circuit, a centrifugal fan for the air circuit, and a thermostat to regulate the temperature in the enclosure. Side mounting.</p>	<p><b>Cooling unit</b></p> <p>Operates like a heat pump: A condenser removes to the ambient air the calories absorbed by an evaporator. The air inside the enclosure is thus cooled and dried. Side, floor, roof and floor-standing mounting.</p>	<p><b>Heating resistor</b></p> <p>The heating resistors prevent the formation of condensation and ensure an ideal temperature inside the enclosure.</p>	
<p>Large quantity of heat to be removed. Difficult environments (cement plant, production lines, greasy workshops, etc.) or humid environments (sewage plant, bottling factory, etc.). Do not discharge calories into the environment.</p>	<p>Highly polluted environment but which permits the use of a filter for external protection of the cooling unit.</p>	<p>To heat the inside of the enclosure and prevent condensation.</p>	
<p><b>Ta &gt; Td</b></p>	<p><b>Ta &gt; Td and Ta ≤ 55°C</b></p>	<p><b>Ta &lt; Td</b></p>	
<p><b>Yes</b></p>	<p><b>Yes</b></p>	<p>-</p>	
<ul style="list-style-type: none"> <li>Internal temperature independent of the external temperature</li> <li>Security system against any leaks</li> <li>Calories dissipated outside</li> <li>Guaranteed level of protection: IP55.</li> </ul>	<ul style="list-style-type: none"> <li>Internal temperature independent of the external temperature</li> <li>Uniform temperature inside the enclosure.</li> <li>Guaranteed level of protection: IP54 for roof and big cooling models, IP55 for side models and the SLIM range</li> <li>Use of an ecological gas.</li> <li>Installation of a system from removal of condensation water from the evaporator</li> </ul>	<ul style="list-style-type: none"> <li>Small size (1.6 mm thick for the ultra-thin version)</li> <li>Low surface temperature (&lt; 70°C for insulated version, 75°C for aluminum version)</li> <li>Uniform temperature inside the enclosure with the version equipped with a fan.</li> </ul>	
<ul style="list-style-type: none"> <li>There must be a cold water circuit of stable temperature and flow rate</li> <li>Installation of special piping.</li> </ul>	<ul style="list-style-type: none"> <li>Water condensation evaporation unit integrated in side mounting models from 0.6 kW to 4 kW</li> <li>Maintenance required: change of filters.</li> </ul>		
<p>Air-water exchangers</p>	<p>Cooling units</p>	<p>Heating resistors</p>	

# Thermal management system

## Introduction

### > Large range of fans:

flow rate efficiency, high protection rating, quick installation and easier maintenance to secure all the applications.



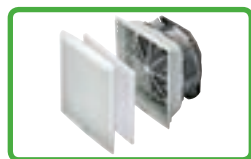
## Ventilation systems



### Easy installation

#### Quick installation

- Safe, reliable fixing with the assisted fixing device and the system of multi-thickness fixing-clips.
- Easy to invert.
- To operate as extractors, all the motors can be inverted by simply removing four screws.



### Easy maintenance

#### Quick filter replacement

Quick, easy and safe replacement of the filter installed in the fan, even during operation.



### Quality of the components

#### Selection of the motors

- Improved flow rate and longer service life.
- Large range of input voltages available on all the motors delivered as standard, with alternating 50/60 Hz or direct current.



### Certifications

- UL



### Optimised flow rate: average increase of 50 %

- Maximum use of surface.
- Minimum loss of pressure.

## Innovation



## New

## Smart ventilation systems



### The smartest way to keep critical equipment cool

- Intelligent filter.
- Adaptable to any new or existing enclosures.

> See page 500

# Thermal management system

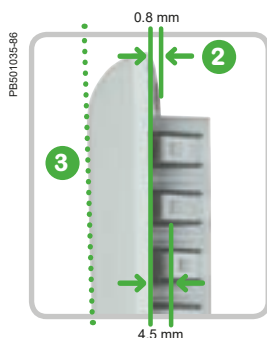
## Introduction

### High protection rating: IP54 as standard



#### 1 - Fixing guide

- To centre the body of the fan on the wall of enclosure.
- To correct machining faults.
- To facilitate the correct operation of the fixing "clips".

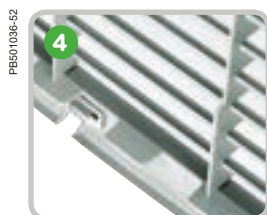


#### 2 - Multi-thickness fixing-clips

- To guarantee easy and reliable fixing of the ventilation system.
- With a thickness of 0.8 to 4.5 mm, with no fixings.

#### 3 - Inclined profile of the grille

- To protect the filter against vertical spraying:
  - each slat is protected by the slat above it,
  - the external dimensions remain small.



#### 4 - IP54-55

A patented system allows the evacuation of water absorbed by the filter, in particular during high-pressure spraying.



#### 5 - Hot-fitted sealing gasket

The polyurethane gasket, hot cast, guarantees a long-lasting seal.



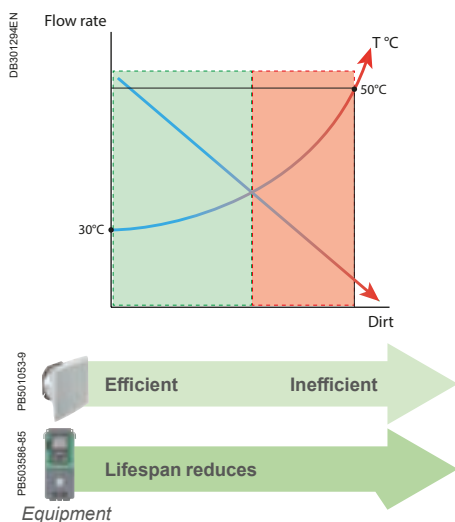
#### 6 - Effective system for retaining the filter

The system for holding the synthetic filter in the cavity of the filter holder guarantees a protection rating of IP54, in the most difficult conditions.

### Innovation

## Problems generated by dirty filters

60% of installations face quality issues caused by dirty filters



### > Product malfunction or breakdown of the panel

- Overheating issues
- Conductivity issues due to dust
- Damage to internal moving parts

### > Reduced lifespan of installed equipment

### > Low energy efficiency of the panel

- Overconsumption of the fan

### > Safety issues

- Risk of fire/burning

All these issues are due to the presence of dust and/or ventilation malfunction; they can be avoided with the use of a smart ventilation system.

**HEALTH OF EQUIPMENT = FILTER'S DUST LEVEL**

## The concept of the ClimaSys Smart Ventilation System (CSVs)

The ClimaSys Smart Ventilation System is a smart, closely integrated network that makes your life easier.

### > Use corrective and predictive maintenance of the ventilation system to:

- Improve CAPEX and OPEX of the installation
- Improve maintenance and operation of the installation
- Improve peace of mind
- Improve maintenance cost

for new and already existing installations.

### > Functions of the CSVs systems:

**Detect general poor health of the enclosure by monitoring:**

- Input/output temperature

**Detect fan issues by monitoring:**

- Air flow temperature
- Current level, consumed energy
- Blade speed measurement
- Used and remaining (approximate) lifespan

**Detect grid filter issues:**

- Air flow temperature
- Dust level (0% clean – 100% dirty)
- Number of replacements
- Remaining time before next replacement



**90%**  
savings on filter  
maintenance

### Innovation

## The technical solution

### 2 sensors...

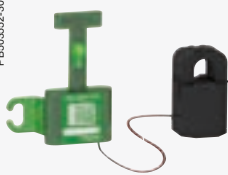
PB503857-30



Dust Sensor  
(patented)  
**NSYCCAFSDUST**

Composed of an optical sensor which detects the filter dirt level + temperature sensor

PB503852-30



Fan Sensor  
**NSYCCARPM**

Composed of:

- RPM sensor to control fan rotation and transported air temperature
- Toroidal sensor to measure fan consumption

... connected to a **controller** which relays information and alarms

PB503842-30



Filterstat™ Controller ClimaSys CC DG  
**NSYCCOFST...V**

Information displayed on Filterstat's controller screen

- **Detect general poor health of enclosure by monitoring:**
  - Input/output temperature
- **Detect fan issues by monitoring:**
  - Air flow temperature
  - Current level, consumed energy
  - Blade speed measurement
  - Used and remaining (approximate) lifespan
- **Detect grid filter issues:**
  - Air flow temperature
  - Dust level (0% clean – 100% dirty)
  - Number of replacements
  - Remaining time before next replacement

#### The alarms

The system offers different types of alarms for notification when something is not right:

#### Alarms

- **Dust filter alarm:** filter capacity is below from a user-defined level. 0%-60% (Green LED Colour), 60%-80% (Orange LED Colour), >80% (Flashing Red LED Colour)
- **No electricity supply to fan:** fan is running (there is an rpm reading but the current sensor shows a 0 mA reading).
- **Fan rpm slow:** fan speed is below a user-predefined level.
- **Fan flaps blocked:** consumption in a fan is detected but the rpm speed is zero.
- **Over-temperature alarm on airflow:** fan exceeds a user-defined threshold.
- **Over-temperature or down-temperature alarm:** on inlet or outlet air from grids.
- **Fan lifespan over:** the fan lifetime has almost expired and should be replaced (front LEDs light up purple).
- **Δt deviation:** Δt deviation is greater than a user-predefined threshold.
- **Remote sensor not connected/broken:** a device in the network is disconnected.

## Thermal network architecture

### > The greenfield solution for new installations

We offer a range of digital devices that can be connected together and optionally also to a remote supervisor.  
See page 502

### > The brownfield kit for retrofit installations

It is easy to upgrade an **existing installation** to a digital one.  
See page 503

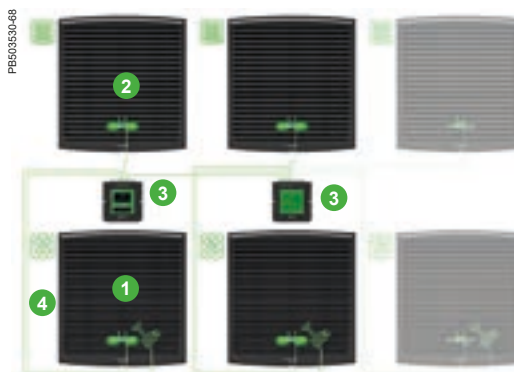
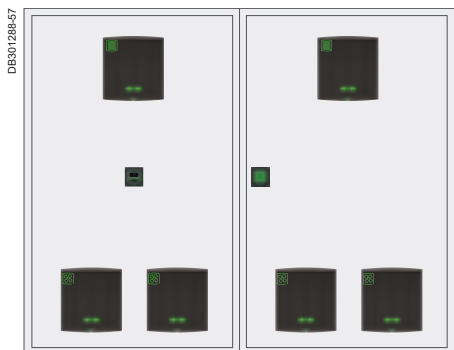
PB503530-104



**Innovation**

### Build your greenfield solution for a new installation

The nucleus of the system is the ClimaSys Filterstat™ controller that collects information from filter and fan sensors across all of your enclosures.

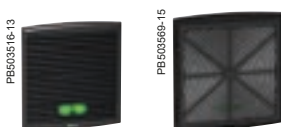


#### 1 Select your Smart Fan



See details page 504

#### 2 Select your Smart Grid



NSYCAG92DG

See details page 508

#### New ClimaSys Smart Grids Offer

Complete Smart Grid that includes:

- a Dust Sensor
- a Smart Filter G2\*

Grid cut-out (mm <sup>2</sup> )	Grid references
92x92	NSYCAG92DG
125x125	NSYCAG125DG
223x223	NSYCAG223DG
291x291	NSYCAG291DG

\* G3 smart filter to be order separately (see page 509).

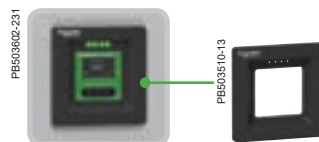
#### 3 Select your controller and potential thermal hubs to digitalize more than 1 enclosure



NSYCCOFST90250V



NSYCCOFSEM8U



#### Modular frame IP55

Trim frame IP55 for installing the Filterstat Controller and thermal Hub on enclosure doors, side panels etc. Material and colour: same as controller.

**Reference**  
NSYCCOFR55

#### Filterstat Controllers (4 ports) and thermal hubs (8 ports)

Voltage (V)	Controller ref.	Thermal hub ref.
30V AC/DC	NSYCCOFST30V	NSYCCOFSEM8U1
90-250V AC	NSYCCOFST90250V	NSYCCOFSEM8U2

#### 4 Select your communication cables

(the commonest architecture is made up of 3 cables to be selected for 1 enclosure with 1 fan at the bottom and 1 grid at the top)



NSYCCA50MFST

#### Filterstat communication cable

Black unshielded cable with 2 connectors on each side. Material: PVC.

Length (mm)	Cable references
500	NSYCCA50MFST
1000	NSYCCA100MFST
1500	NSYCCA150MFST
2000	NSYCCA200MFST
3000	NSYCCA300MFST
4000	NSYCCA400MFST
5000	NSYCCA500MFST

**[!]** Control devices (thermostat, hygrosat, hygrotherm) must be ordered separately.



Easy product selection with the Proclima selection tool

**Innovation**

### Select your brownfield kit for an existing installation

To digitalize an existing installation, order the appropriate brownfield kit:



PB503331-48



Suitable for existing enclosures with fan at the bottom and grid at the top (lateral or door)

Characteristics		Brownfield kits
<b>Grid cut-out size (mm)</b>	<b>Cable size (m)</b>	<b>References</b>
92 x 92	0.5	<b>NSYCCFSBRKIT92</b>
125 x 125	1	<b>NSYCCFSBRKIT125</b>
223 x 223	1.5	<b>NSYCCFSBRKIT223</b>
291 x 291	2	<b>NSYCCFSBRKIT291</b>

**The kit includes:**

- 2 units external covers grey smokey grids
- 2 units smart filters (2 Filter Mat G2 + 2 dust sensors)
- 1 unit Filterstat Controller (90-250 V, 50 Hz-60Hz)
- 3 cables
- 1 rpm + toroidal sensor
- Other equipment: 10 stickers and retainer flaps mini-tool kit

... or select brownfield components separately:

PB503516-13



PB503517-14



PB503508-18



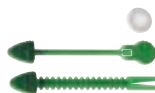
PB503557-22



Characteristics		External Smart Grids	External smokey grids	Smart filters*		Dust Sensor
		External grids equipped with G2 filter and Dust Sensor to be installed in an existing grid support.	External grids to be installed in an existing grid support or used as spare part. Smart filter and Dust sensor to be ordered separately.	Set of 5 Smart filters for replacement on Smart Fans and Smart Grids.		Individual Dust Sensor ready to be implemented on any existing ClimaSys CV fan or ClimaSys CA grids in the brownfield installation or used as spare part.
<b>Grid cut-out size(mm)</b>	<b>References</b>			<b>Filter type</b>	<b>References</b>	<b>NSYCCAFSDUST</b>
92 x 92	<b>NSYCAG92DGC</b>	<b>NSYCAG92BPC</b>	M1 G2	<b>NSYCAF92DG</b>		
125 x 125	<b>NSYCAG125DGC</b>	<b>NSYCAG125BPC</b>	M1 G2	<b>NSYCAF125DG</b>		
223 x 223	<b>NSYCAG223DGC</b>	<b>NSYCAG291BPC</b>	M1 G3	<b>NSYCAF125G3DG</b>		
291 x 291	<b>NSYCAG291DGC</b>	<b>NSYCAG223BPC</b>	M1 G2	<b>NSYCAF223DG</b>		
			M1 G3	<b>NSYCAF223G3DG</b>		
			M1 G2	<b>NSYCAF291DG</b>		
			M1 G3	<b>NSYCAF291G3DG</b>		

\* See details page 509.

PB503518-12



PB503552-22



10 stickers and retainer flaps mini-tool kit	Fan Sensor
Tool kit for digitalizing fans in brownfield installations without opening fan motor rear grids.	Individual Fan Sensor ready to be implemented on any existing fan in the brownfield installation or used as spare part.
<b>Reference</b>	
<b>NSYCCABLK</b>	<b>NSYCCARP</b>

# Thermal management system

## Characteristics

**New**

### Smart ventilation systems

### Forced ventilation

#### Characteristics

Material of external grids

Colour of external grids

Conditions of use

Ingress protection rating (according to IEC 60529)

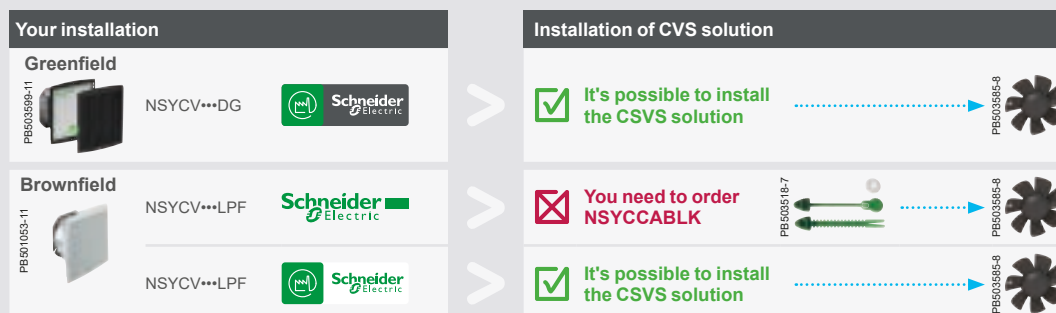
Mechanical protection rating (according to IEC 62262)

Installation

Options

Free flow rate with standard filter (m³/h)	Flow rate with outlet grille(s) (m³/h)		Voltage range (nominal voltage)	Absorbed power (max. intensity)	Noise level	External dimensions (cut-out)	Weight	Operating temperature	Max. static pressure
	1	2							
34 (50 Hz) 35 (60 Hz)	21 (50 Hz) 22 (60 Hz)	29 (50 Hz)	150 V...250 V (230 V)	4.5/4.8 W (0.16/0.17 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+70°C	29 Pa
34 (50 Hz) 35 (60 Hz)	23 (50 Hz) 24 (60 Hz)	35 (50 Hz)	75 V...125 V (115 V)	3.3/3.5 W (0.16/0.16 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+70°C	29 Pa
74 (50 Hz) 87 (60 Hz)	52 (50 Hz) 61 (60 Hz)	60 (50 Hz)	175 V...253 V (230 V)	17/15 W (0.121/0.097 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20...+60°C	50 Pa
68 (50 Hz) 81 (60 Hz)	54 (50 Hz) 63 (60 Hz)	62 (50 Hz)	75 V...126 V (115 V)	16/15 W (0.207/0.179 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20...+60°C	50 Pa
142 (50 Hz) 170 (60 Hz)	130 (50 Hz) 151 (60 Hz)	138 (50 Hz) 152 (60 Hz)	175 V...253 V (230 V)	16.3/14.3 W (0.12/0.94 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20...+60°C	50 Pa
151 (50 Hz) 173 (60 Hz)	130 (50 Hz) 151 (60 Hz)	138 (50 Hz) 156 (60 Hz)	75 V...126 V (115 V)	15.5/14.4 W (0.20/0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20...+60°C	50 Pa
259 (50 Hz) 307 (60 Hz)	209 (50 Hz) 251 (60 Hz)	218 (50 Hz)	145 V...253 V (230 V)	36/37 W (0.17/0.16 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+70°C	158 Pa
259 (50 Hz) 307 (60 Hz)	209 (50 Hz) 251 (60 Hz)	221 (50 Hz)	75 V...126 V (115 V)	36/36 W (0.35/0.32 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+70°C	158 Pa
502 (50 Hz) 526 (60 Hz)	412 (50 Hz) 448 (60 Hz)	420 (50 Hz)	207 V...244 V (230 V)	68/85 W (0.52/0.370 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15...+60°C	140 Pa
522 (50 Hz) 526 (60 Hz)	425 (50 Hz) 417 (60 Hz)	434 (50 Hz)	103 V...122 V (115 V)	65/83 W (0.60/0.72 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15...+60°C	140 Pa
638 (50 Hz) 603 (60 Hz)	500 (50 Hz) 462 (60 Hz)	528 (50 Hz)	207 V...244 V (230 V)	150/195 W (0.65/0.85 A)	76/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa
783 (50 Hz) 744 (60 Hz)	643 (50 Hz) 442 (60 Hz)	654 (50 Hz)	103 V...122 V (115 V)	145/182 W (1.279/1.6 A)	78/77 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa
731 (50 Hz) 603 (60 Hz)	598 (50 Hz) 368 (60 Hz)	609 (50 Hz)	396 V...466 V (400 V)	126/126 W (0.226/0.232 A)	77/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa

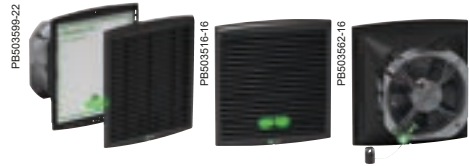
### How to identify whether your ClimaSys CV fan has been upgraded to install the CSVS solution?





# Thermal management system

## Characteristics

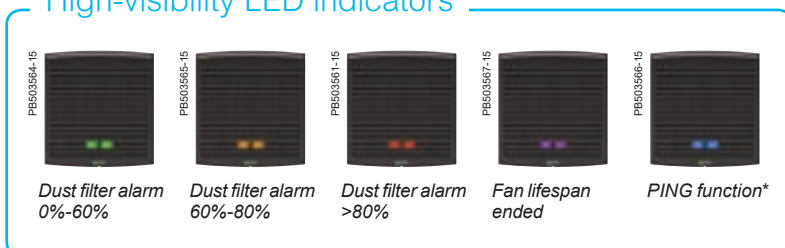


Forced ventilation fan 38 m³/h	Forced ventilation fan 85 m³/h	Forced ventilation fan 165 m³/h	Forced ventilation fan 300 m³/h	Forced ventilation fan 560-850 m³/h
The Smart fans are equipped with an axial motor, a protective housing on the front, rear surfaces, and a Smart filter with Dust sensor and a Fan sensor with infrared technology. The external smokey grid displays the status of the ventilation functions through the LED colours of the Dust sensor. This Smart filter can be replaced for maintenance during operation without risk of contact with the rotating element.				
Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0.				
Smokey black RAL 9005				
<ul style="list-style-type: none"> <li>■ The external temperature must not exceed 30°C and must be more than 5°C lower than the temperature required in the enclosure</li> <li>■ The Smart filters that equip the Smart fans must be replaced when the alarm is triggered Filterstat controller (see more details page 501)</li> <li>■ Storage Temperature: -40...+ 70°C</li> </ul>				
IP54				
IK08				
The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.				
For maintenance replacement of Smart filters please see spare parts references, page 509				
<b>Type of connection</b>				
<b>by cable</b>	<b>by faston (1)</b>	<b>by faston (1)</b>	<b>by faston (1)</b>	<b>by terminal block</b>
NSYCVF38M230DG*	-	-	-	-
NSYCVF38M115DG*	-	-	-	-
-	NSYCVF85M230DG	-	-	-
-	NSYCVF85M115DG	-	-	-
-	-	NSYCVF165M230DG	-	-
-	-	NSYCVF165M115DG	-	-
-	-	-	NSYCVF300M230DG	-
-	-	-	NSYCVF300M115DG	-
-	-	-	-	NSYCVF560M230DG
-	-	-	-	NSYCVF560M115DG
-	-	-	-	NSYCVF850M230DG
-	-	-	-	NSYCVF850M115DG
-	-	-	-	NSYCVF850M400DG

(1) Fan models with connection are delivered with the connection cord included (2 metres).

\* Warning: the fan NSYCVF38M230DG & NSYCVF38M115DG MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply !

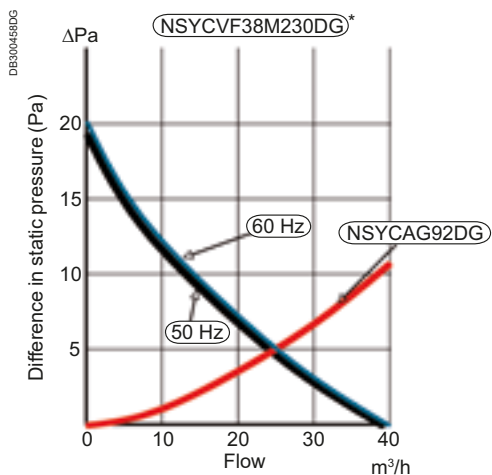
### High-visibility LED indicators



\*Identification of the sensor on the panel (flashing blue color)

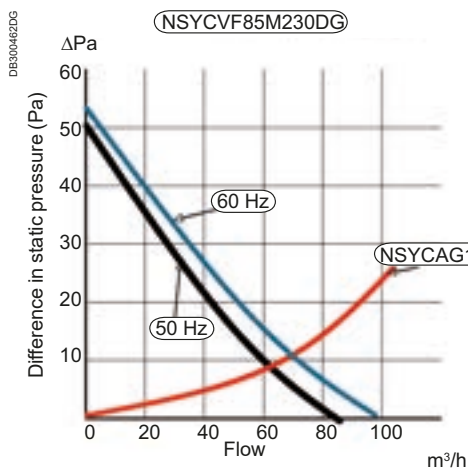
**New**

### Flow curves



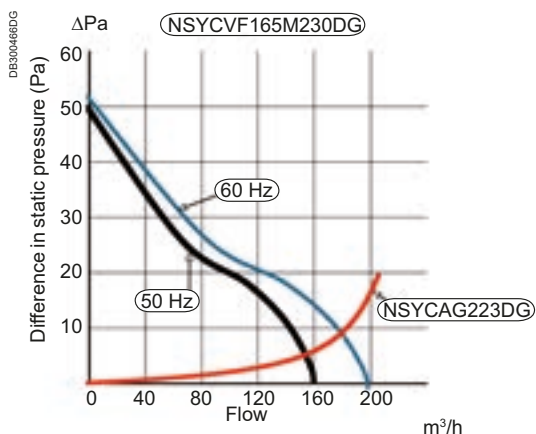
\* Warning: the fan **NSYCVF38M230DG** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply!  
 Note: Adding the Dust Sensor will decrease the flow rate by nearly 10%.

### Flow curves



Note: Adding the Dust Sensor will decrease the flow rate by nearly 5%.

### Flow curves

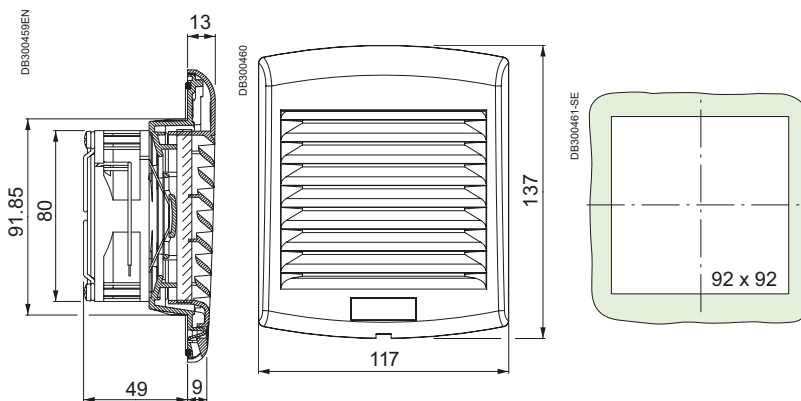


Note: Adding the Dust Sensor will decrease the flow rate by nearly 5%.

## Smart ventilation systems

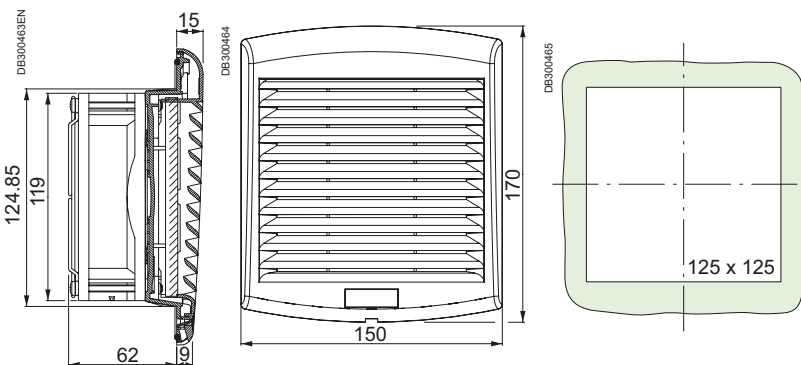
### Fan 38 m³/h

#### Dimensions



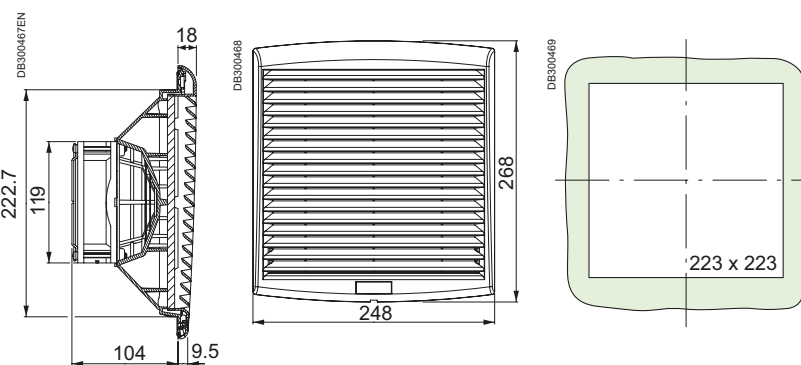
### Fan 85 m³/h

#### Dimensions



### Fan 165 m³/h

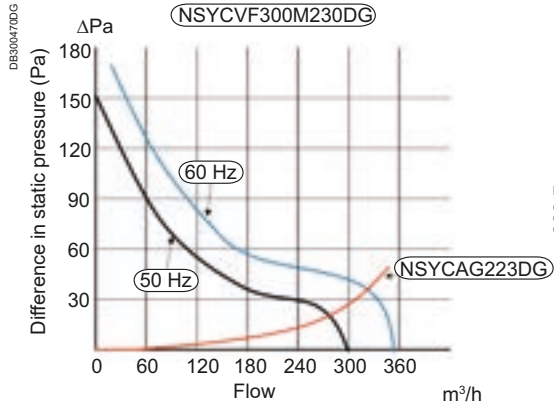
#### Dimensions



# Thermal management system

## Dimensions

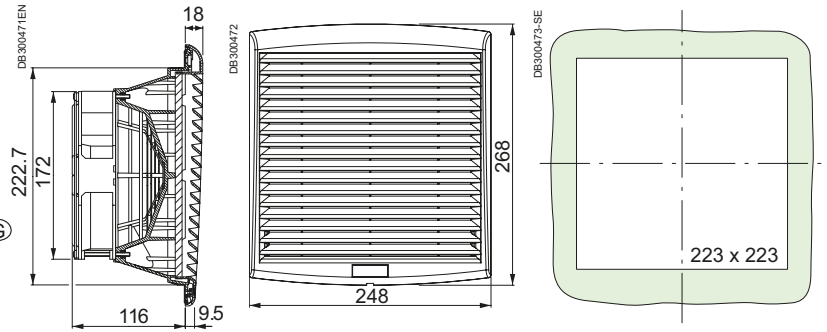
### Flow curves



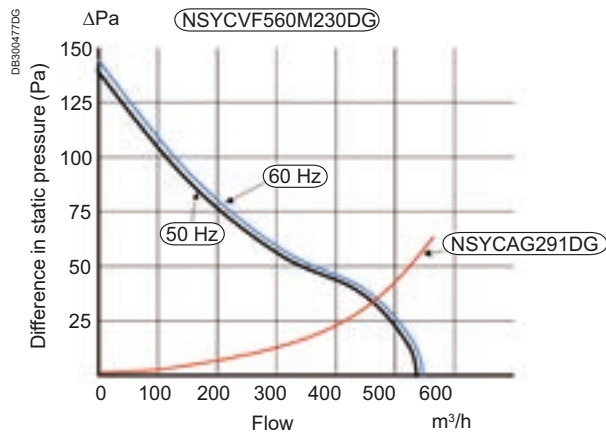
**Note:** Adding the Dust Sensor will decrease the flow rate by nearly 5%.

### Fan 300 m³/h

#### Dimensions



### Flow curves

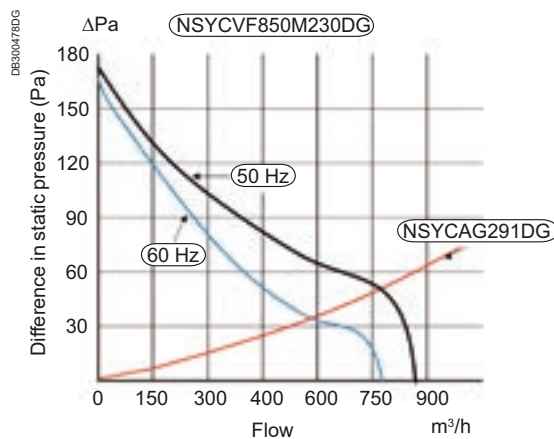


**Note:** Adding the Dust Sensor will decrease the flow rate by nearly 5%.

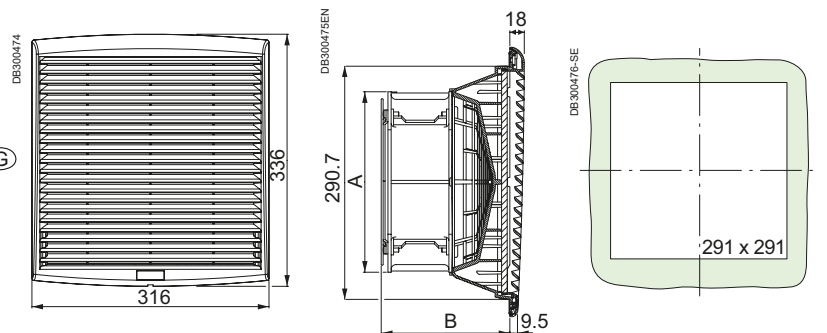
### Fan 560-850 m³/h

#### Dimensions

A	B	References
225	160.5	NSYCVF560M230DG NSYCVF560M115DG
280	162	NSYCVF850M230DG NSYCVF850M115DG



**Note:** Adding the Dust Sensor will decrease the flow rate by nearly 5%.



**New**

## Smart Grid systems

PB503516-24

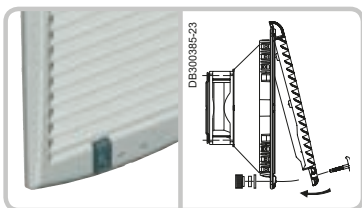


PB503516-24



Characteristics				Complete Smart Grids	External Smart Grids (without internal grid systems)
Material				Complete Smart Grid that includes: ■ a Dust Sensor ■ a SmartFilter G2	External grids equipped with G2 Smart filter and Dust Sensor to be installed in an existing grid support.
Colour				Injected thermoplastic (PC), self-extinguishing according to UL 94 V-0	Injected thermoplastic (PC), self-extinguishing according to UL 94 V-0
Ingress protection rating (according to IEC 60529)				Smokey black RAL 9005	Smokey black RAL 9005
Ingress protection rating (according to IEC 60529)				IP54	IP54
Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References	
137	117	13	92 x 92	<b>NSYCAG92DG</b>	<b>NSYCAG92DGC</b>
170	150	15	125 x 125	<b>NSYCAG125DG</b>	<b>NSYCAG125DGC</b>
268	248	18	223 x 223	<b>NSYCAG223DG</b>	<b>NSYCAG223DGC</b>
336	316	18	291 x 291	<b>NSYCAG291DG</b>	<b>NSYCAG291DGC</b>

PB501056-29



Characteristics	Anti-vandalism kit
	Prevents the grid from being opened from the outside. The unlocking thumbwheel is accessed from the inside of the enclosure.
Colour	RAL 7011
Minor packaging	Reference
2	<b>NSYCAAPV</b>

## Pockets

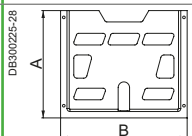
PB500464-19



PB503933-86



Characteristics				Plastic document pocket	
Material				Fixed by adhesive tape.	
Colour				Polystyrene (PS)	
Supply				RAL 7035 grey (NSYDPA4: RAL 9001)	
Supply				1 plastic document pocket	
Dimensions (mm)				References	
Doc. format	A	B	C	Smart filter references	
A5	174	188	22	<b>NSYDPA5</b>	NSYCAF92•DG & NSYCAF125•DG
A4	230	247	23	<b>NSYDPA4</b>	NSYCAF223•DG
A4	234	278	40	<b>NSYDPA44 (1)</b>	NSYCAF223•DG
A3	285	476	35	<b>NSYDPA3</b>	NSYCAF291•DG



(1) Not compatible with 19" chassis or modular distribution installation.

# Thermal management system Accessories

PB503517-24



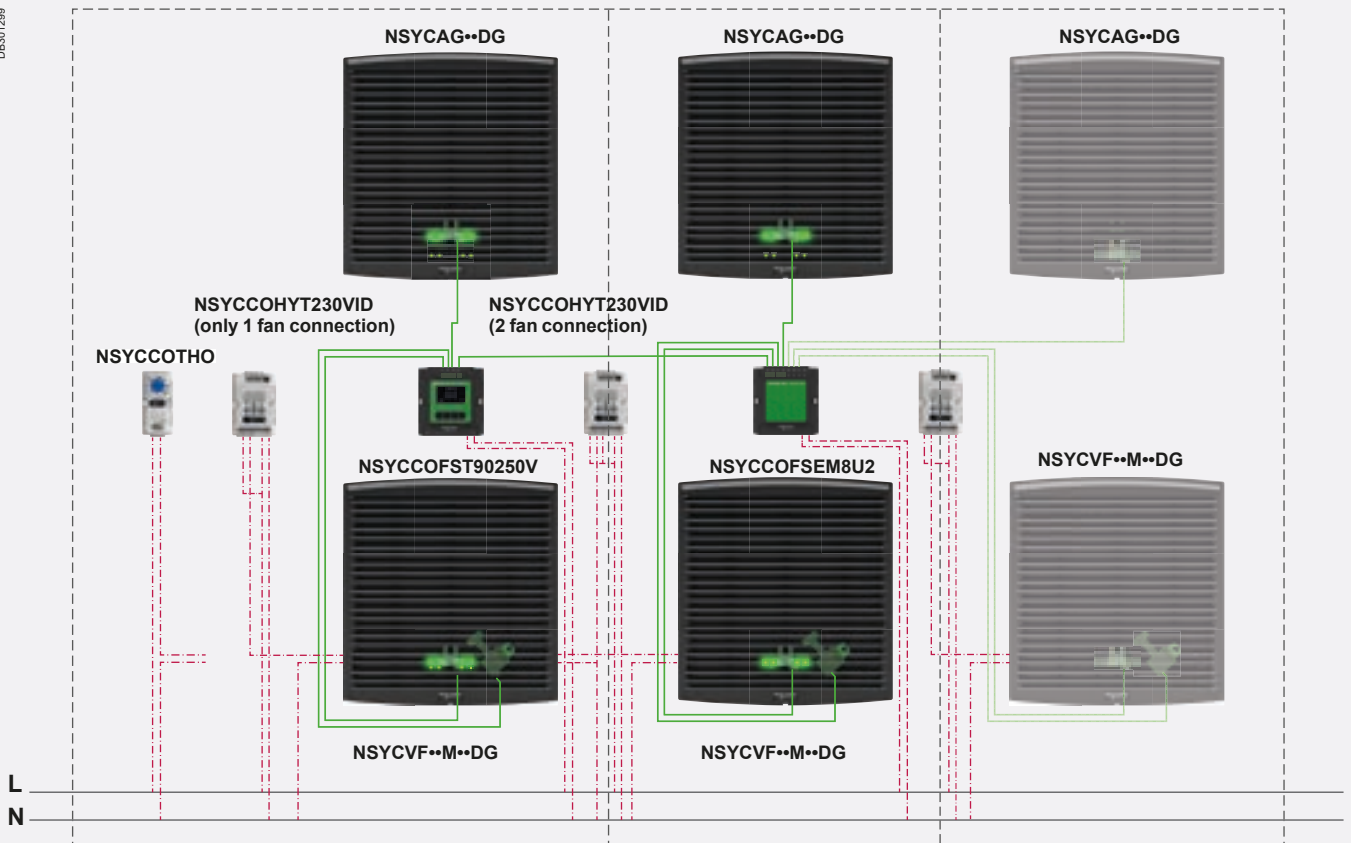
PB503598-30



External smokey grids (external cover only)		Smart filters			
		G2 M1 filters		G3 M1 filters	
	External grids to be installed in an existing grid support or used as spare part. Smart filter and Dust sensor to be ordered separately.	Set of 5 Smart filters for replacement on Smart Fans and Smart Grids. For fans and grilles.			
	Injected thermoplastic (PC), self-extinguishing according to UL 94 V-0 Smokey black RAL 9005	Polyester. Filters according to ISO 16890. White with green lettering			
	IP54	-			
		Pack.	References	Pack.	References
	<b>NSYCAG92BPC</b>	5	<b>NSYCAF92DG</b>	-	-
	<b>NSYCAG125BPC</b>	5	<b>NSYCAF125DG</b>	5	<b>NSYCAF125G3DG</b>
	<b>NSYCAG291BPC</b>	5	<b>NSYCAF223DG</b>	5	<b>NSYCAF223G3DG</b>
	<b>NSYCAG223BPC</b>	5	<b>NSYCAF291DG</b>	5	<b>NSYCAF291G3DG</b>

## ClimaSys (CSVS) General wiring diagram

DE301299



# Thermal management system

## Characteristics

### Ventilation Systems

#### Forced ventilation

#### Characteristics

Material external grids

Colour external grids

Conditions of use

Ingress protection rating (according to IEC 60529)

Mechanical protection rating (according to IEC 62262)

Installation

Options

Free flow rate with standard filter (m³/h)	Flow rate with outlet grille(s) (m³/h)		Voltage range (nominal voltage)	Absorbed power (max. intensity)	Noise level	External dimensions (cut-out)	Weight	Operating temperature	Max. static pressure
	1	2							
38 (50 Hz) 39 (60 Hz)	25 (50 Hz) 26 (60 Hz)	33 (50 Hz)	150 V...250 V (230 V)	4.5/4.8 W (0.16/0.17 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+70°C	29 Pa
38 (50 Hz) 39 (60 Hz)	27 (50 Hz) 28 (60 Hz)	35 (50 Hz)	75 V...125 V (115 V)	3.3/3.5 W (0.16/0.16 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+70°C	29 Pa
58	39	47	10 V...27.6 V (24 V DC)	3.6 W (0.18 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+70°C	29 Pa
44	34	41	36 V...56 V (48 V DC)	3.6 W (70 mA)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+70°C	29 Pa
85 (50 Hz) 98 (60 Hz)	63 (50 Hz) 72 (60 Hz)	71 (50 Hz)	175 V...253 V (230 V)	17/15 W (0.121/0.097 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20...+60°C	50 Pa
79 (50 Hz) 92 (60 Hz)	65 (50 Hz) 74 (60 Hz)	73 (50 Hz)	75 V...126 V (115 V)	16/15 W (0.207/0.179 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20...+60°C	50 Pa
80	57	77	10 V...27.6 V (24 V DC)	7.6 W (0.30 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+70°C	50 Pa
79	59	68	25 V...55.2 V (48 V DC)	8 W (0.173 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+70°C	50 Pa
165 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 175 (60 Hz)	175 V...253 V (230 V)	16.3/14.3 W (0.12/0.94 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20...+60°C	50 Pa
164 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 179 (60 Hz)	75 V...126 V (115 V)	15.5/14.4 W (0.20/0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20...+60°C	50 Pa
188	171	179	10 V...27.6 V (24 V DC)	8 W (0.3 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+70°C	50 Pa
193	171	179	25 V...55.2 V (48 V DC)	8.7 W (0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+70°C	50 Pa
302 (50 Hz) 350 (60 Hz)	260 (50 Hz) 307 (60 Hz)	268 (50 Hz)	145 V...253 V (230 V)	36/37 W (0.17/0.16 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+70°C	158 Pa
302 (50 Hz) 350 (60 Hz)	263 (50 Hz) 307 (60 Hz)	271 (50 Hz)	75 V...126 V (115 V)	36/36 W (0.35/0.32 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+70°C	158 Pa
262	221	229	12 V...30 V (24 V DC)	13 W (0.53 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10...+70°C	158 Pa
247	210	218	25 V...60 V (48 V DC)	11 W (0.24 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10...+70°C	158 Pa
562 (50 Hz) 586 (60 Hz)	473 (50 Hz) 477 (60 Hz)	481 (50 Hz)	207 V...244 V (230 V)	68/85 W (0.52/0.370 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15...+60°C	140 Pa
582 (50 Hz) 586 (60 Hz)	485 (50 Hz) 477 (60 Hz)	494 (50 Hz)	103 V...122 V (115 V)	65/83 W (0.60/0.72 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15...+60°C	140 Pa
838 (50 Hz) 803 (60 Hz)	718 (50 Hz) 568 (60 Hz)	728 (50 Hz)	207 V...244 V (230 V)	150/195 W (0.65/0.85 A)	76/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa
983 (50 Hz) 944 (60 Hz)	843 (50 Hz) 642 (60 Hz)	854 (50 Hz)	103 V...122 V (115 V)	145/182 W (1.279/1.6 A)	78/77 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa
931 (50 Hz) 803 (60 Hz)	798 (50 Hz) 568 (60 Hz)	809 (50 Hz)	396 V...466 V (400 V)	126/126 W (0.226/0.232 A)	77/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa

# Thermal management system

## Characteristics



Forced ventilation fan 38 m³/h	Forced ventilation fan 85 m³/h	Forced ventilation fan 165 m³/h	Forced ventilation fan 300 m³/h	Forced ventilation fan 560-850 m³/h
The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles. This filter can be replaced during operation without risk of contact with the rotating element.				
Injected thermoplastic (ASA PC), self-extinguishing according to UL 94 V-0				
RAL 7035 as standard				
<ul style="list-style-type: none"> <li>■ The external temperature must not exceed 30°C and must be more than 5°C lower than the temperature wanted in the enclosure</li> <li>■ The filters that equip the fans must be cleaned and replaced regularly</li> <li>■ The ambient air must be relatively clean and overfrequent filter replacement should be avoided</li> <li>■ Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate</li> <li>■ Storage Temperature: -40... + 70°C</li> </ul>				
IP54				
IK08				
The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling				
The device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles				
<b>Type of connection</b>				
<b>by cable</b>	<b>by faston (1)</b>	<b>by faston (1)</b>	<b>by faston (1)</b>	<b>by terminal block</b>
NSYCVF38M230PF*	-	-	-	-
NSYCVF38M115PF*	-	-	-	-
NSYCVF38M24DPF	-	-	-	-
NSYCVF38M48DPF	-	-	-	-
-	NSYCVF85M230PF	-	-	-
-	NSYCVF85M115PF	-	-	-
-	NSYCVF85M24DPF	-	-	-
-	NSYCVF85M48DPF	-	-	-
-	-	NSYCVF165M230PF	-	-
-	-	NSYCVF165M115PF	-	-
-	-	NSYCVF165M24DPF	-	-
-	-	NSYCVF165M48DPF	-	-
-	-	-	NSYCVF300M230PF	-
-	-	-	NSYCVF300M115PF	-
-	-	-	NSYCVF300M24DPF	-
-	-	-	NSYCVF300M48DPF	-
-	-	-	-	NSYCVF560M230PF
-	-	-	-	NSYCVF560M115PF
-	-	-	-	NSYCVF850M230PF
-	-	-	-	NSYCVF850M115PF
-	-	-	-	NSYCVF850M400PF

(1) Fan models with connection type (F) are delivered with the connection cord included (2 metres).  
 \* Warning: the fan NSYCVF38M230PF & NSYCVF38M115PF MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply!

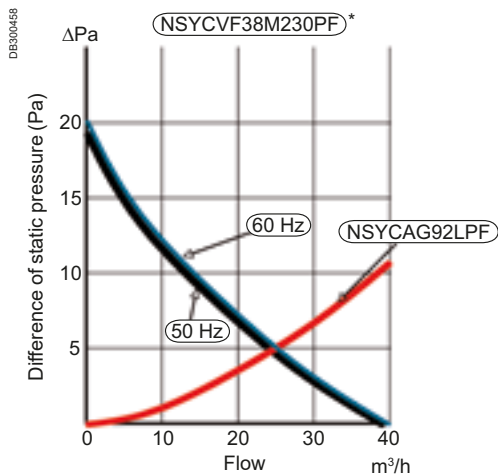
# Thermal management system

## Dimensions

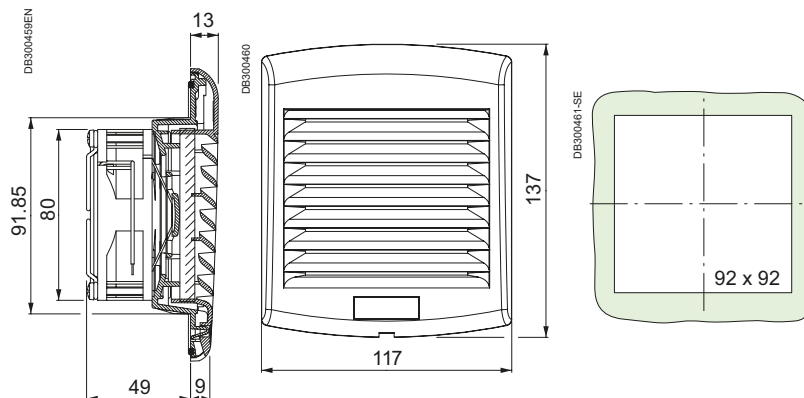
### Fan 38 m<sup>3</sup>/h

#### Dimensions

#### Flow curves



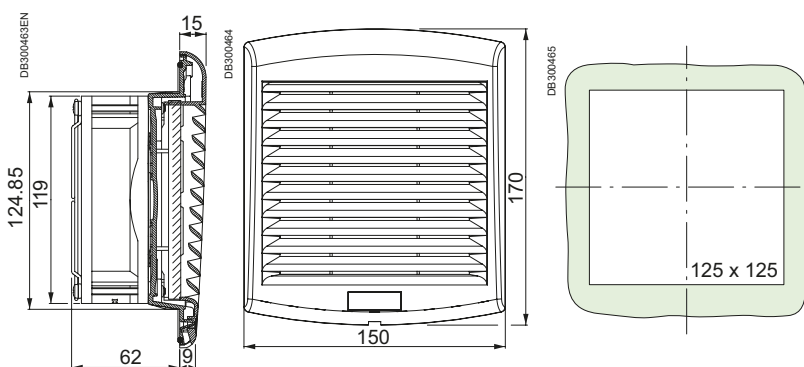
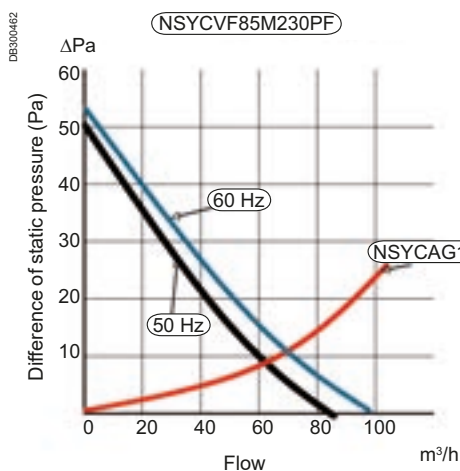
\* Warning: the fan **NSYCVF38M230PF** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply!



### Fan 85 m<sup>3</sup>/h

#### Dimensions

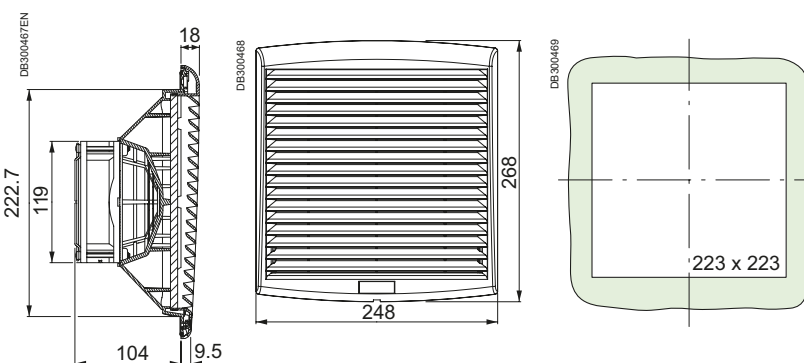
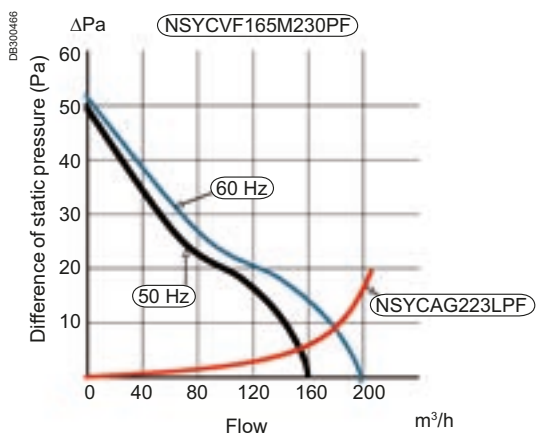
#### Flow curves



### Fan 165 m<sup>3</sup>/h

#### Dimensions

#### Flow curves



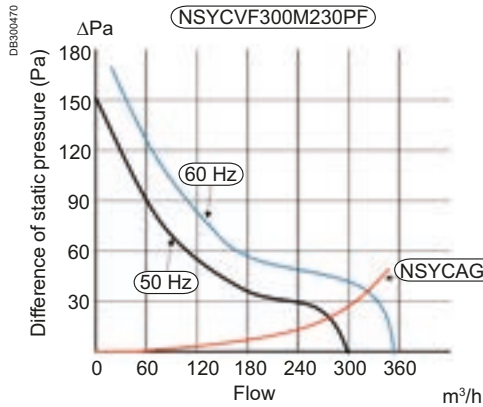


# Thermal management system

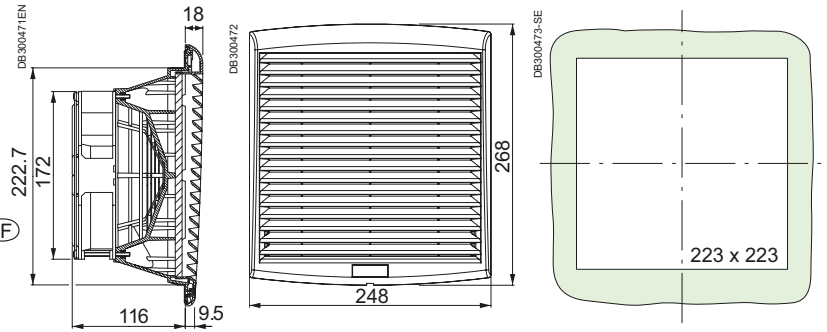
## Dimensions

### Fan 300 m<sup>3</sup>/h

#### Flow curves

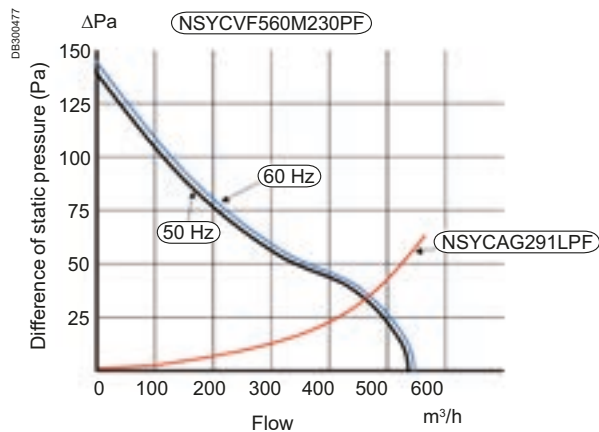


#### Dimensions



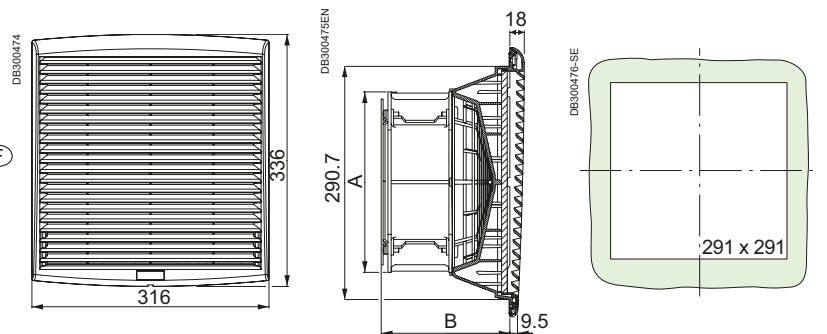
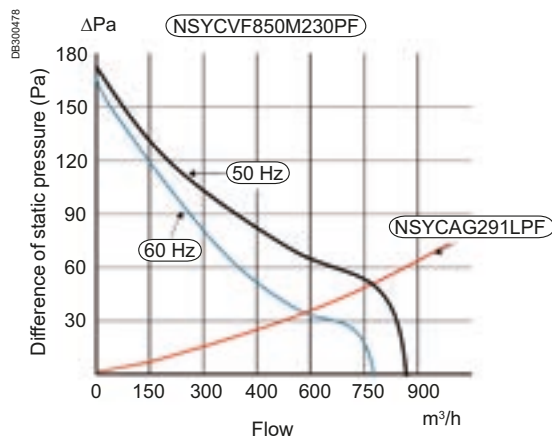
### Fan 560-850 m<sup>3</sup>/h

#### Flow curves



#### Dimensions

A	B	References
225	160.5	NSYCVF560M230PF NSYCVF560M115PF
280	162	NSYCVF850M230PF NSYCVF850M115PF



# Thermal management system

## Accessories

### Ventilation Systems

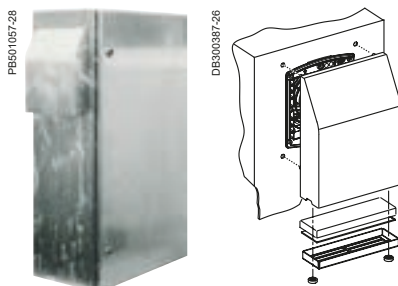


RAL 7035



RAL 7032

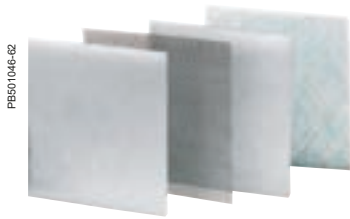
Characteristics				IP54 outlet grilles	
Material				Delivered with G2 M1 synthetic standard filter according to ISO 16890.	Cover for changing the colour of the standard grille RAL 7035 to RAL 7032.
Colour				Injected thermoplastic (ASA PC), self-extinguishing according to UL 94 V-0	Injected thermoplastic (ASA PC), self-extinguishing according to UL 94 V-0
Ingress protection rating (according to IEC 60529)				RAL 7035	RAL 7032
References				IP54	IP54
Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References	
137	117	13	92 x 92	NSYCAP125LZF	NSYCAP125LPC
170	150	15	125 x 125	NSYCAP223LZF	NSYCAP223LPC
268	248	18	223 x 223	NSYCAP291LZF	NSYCAP291LPC
336	316	18	291 x 291	NSYCAP291LZF	NSYCAP291LPC



Characteristics				Covers IP55		Spare filter for cover	Fan	Grille
Material				This solution protects the fan or the grille from any direct sprays. The cover is the preferred solution to guarantee the following: <input type="checkbox"/> an efficient air flow for cooling, <input type="checkbox"/> IP55 rating.		-	-	-
Ingress protection rating (according to IEC 60529)				2 materials available: <input type="checkbox"/> steel painted with epoxy-polyester powder (RAL 7035) for outdoor applications <input type="checkbox"/> stainless-steel 304L for food and beverage applications		-	-	-
Mechanical protection rating (according to IEC 62262)				IP55		-	-	-
Certifications				IK10		-	-	-
Installation				UL 508A		-	-	-
Supply				Double insulation maintained if installed in an insulated enclosure. The cover is placed over the fan or the grille with a filter located at the bottom of the cover to prevent the entry of particles. Easy access to the filter: only two screws needed. When mounting: remove the external part of the fan or the grille as well as the filter.		-	-	-
Flow rate (m <sup>3</sup> /h)* with cover		Dimensions (mm)		References				
Free	With 1 outlet grille	External	Cut-out	Steel painted RAL 7035	Stainless-steel 304L	Emb. mineur 5 p	RAL 7035	RAL 7035
74	53	240 x 180 x 60	125 x 125	NSYCAP125LZF	NSYCAP125LXF	NSYCAF125L55	NSYCVF85M230PF	NSYCAP125LPC
110	82	350 x 305 x 80	223 x 223	NSYCAP223LZF	NSYCAP223LXF	NSYCAF223L55	NSYCVF165M230PF	NSYCAP223LPC
165	123	350 x 305 x 80	223 x 223	NSYCAP223LZF	NSYCAP223LXF	NSYCAF223L55	NSYCVF300M230PF	NSYCAP223LPC
316	265	430 x 373 x 105	291 x 291	NSYCAP291LZF	NSYCAP291LXF	NSYCAF291L55	NSYCVF560M230PF	NSYCAP291LPC
502	430	430 x 373 x 105	291 x 291	NSYCAP291LZF	NSYCAP291LXF	NSYCAF291L55	NSYCVF850M230PF	NSYCAP291LPC

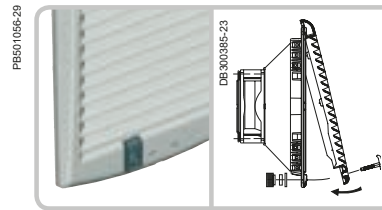
\* Values given for a fan powered at 230 V. For other voltages, the values are similar.

# Thermal management system Accessories



PB501046-B2

Filters							
G2 M1 synthetic standard filters		Filters for greasy environments G2 M1		G3 M1 synthetic fine filters		Stainless-steel anti-insect filters	
For fans and grilles. Filters according to ISO 16890.							
-							
-							
-							
Pack.	References	Pack.	References	Pack.	References	Pack.	References
5	NSYCAF92	-	-	-	-	1	NSYCAF92M
5	NSYCAF125	5	NSYCAF125O	5	NSYCAF125T	1	NSYCAF125M
5	NSYCAF223	5	NSYCAF223O	5	NSYCAF223T	1	NSYCAF223M
5	NSYCAF291	5	NSYCAF291O	5	NSYCAF291T	1	NSYCAF291M



PB501056-29

DB 300385-23

Characteristics	Anti-vandalism kit
	Prevents the grille from being opened from the outside. The unlocking thumbwheel is accessed from the inside of the wall-mounting enclosure.
Colour	RAL 7011 (same material as the grille: ASA PC)
Minor packaging	Reference
2	NSYCAAPV

# Thermal management system

## Accessories

### Ventilation system Heavy duty



Characteristics	Fanbox	Filter	Roof filter for fanbox	IP55 HD Metal Grille	Anti-vandalism kit for HD metal grille										
	<ul style="list-style-type: none"> <li>Free flow rate: 550 m<sup>3</sup>/h (50/60 Hz).</li> <li>Minimal depth inside the enclosure (90 mm).</li> <li>Allows multiple cooling architectures (see page 518 and 519).</li> </ul>	Replacement G3 M1 type synthetic filter for HD metal grille, according to ISO 16890. <ul style="list-style-type: none"> <li><b>Dimensions:</b> 223 x 223 mm.</li> </ul>	Roof G2 round synthetic filter designed to cover the fanbox. Covers completely the fanbox and helps to protect it from dust and humidity. Mandatory for fanbox installation in the Roof ventilation module for IP55 configurations.	Slim grille (35 mm external depth). Includes a G3 M1 filter, according to ISO 16890.	Fixings that help to prevent to open the grille from the outside with standard tools (EN 1627-1630:2011 Class 2).										
Material	Plastic	-	-	Steel with anti-corrosive coating	Steel with anti-corrosive coating										
Finish	-	-	-	Structured finish, 100 % polyester powder	-										
Colour	RAL 7016 dark grey	-	-	RAL 7035 grey	-										
Ingress protection rating (according to IEC 60529)	-	-	-	IP55	-										
Mechanical protection rating (according to IEC 62262)	-	-	-	IK10	-										
Supply	1 (grille not included)	5	1	1 grille delivered with G3 M1 type synthetic filter (223 x 223mm) and fixings.	1 kit										
	<table border="1"> <thead> <tr> <th>Voltage</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>24 V DC</td> <td>NSYCVF550M24FB</td> </tr> <tr> <td>24 V DC</td> <td>NSYCVF550M48FB</td> </tr> <tr> <td>115 V AC</td> <td>NSYCVF550M115FB</td> </tr> <tr> <td>230 V AC</td> <td>NSYCVF550M230FB</td> </tr> </tbody> </table>	Voltage	References	24 V DC	NSYCVF550M24FB	24 V DC	NSYCVF550M48FB	115 V AC	NSYCVF550M115FB	230 V AC	NSYCVF550M230FB	Reference	Reference	Reference	Reference
Voltage	References														
24 V DC	NSYCVF550M24FB														
24 V DC	NSYCVF550M48FB														
115 V AC	NSYCVF550M115FB														
230 V AC	NSYCVF550M230FB														
		NSYCAF223T	NSYCAF190	NSYCAG223LFHD	NSYCAAPVHD										



# Thermal management system

## Ventilation architectures

- ① IP55 metal grille
- ② Fanbox
- ③ Roof ventilated module
- ④ Ventilated plinths
- ⑤ IP54 grille



	S-Line				T-Line			
Architecture benefits	<ul style="list-style-type: none"> <li>■ Most common and competitive architecture</li> <li>■ Maximum heat dissipation to extract 800 W-1000 W</li> <li>■ <math>\Delta T^\circ</math> of 5°C</li> <li>■ Easy access to mount-dismount fanbox</li> <li>■ Air flow in horizontal axis</li> </ul>				<ul style="list-style-type: none"> <li>■ High capacity of extraction calories up to 1500 W</li> <li>■ Noise level with 1 fan: 55 dB when installed inside the upper ventilation module</li> <li>■ <math>\Delta T^\circ</math> of 5°C</li> <li>■ Air flow in vertical axis</li> </ul>			
	IP55 metal grille		Fanbox		IP55 metal grille		Fanbox (1 filter NSYCAF190 for each Fanbox)	Roof ventilation module
	Door	Side	Door	Side	Door	Side		

### Polyester outdoor HD enclosure

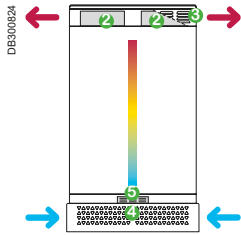
References	Amount to be installed				Amount to be installed				References
NSYPHDT553	-	-	-	-	-	-	-	-	-
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1054	-	1	-	1	-	1	1	1	NSYPCVR54HD
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	NSYPCVR54HD
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT1254	-	1	-	1	-	1	1	1	NSYPCVR54HD
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	NSYPCVR54HD
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD

### Steel outdoor HD enclosure

References	Amount to be installed				Amount to be installed				References
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYS3CVR84HD
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	NSYS3CVR64HD
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYS3CVR84HD
NSYSFHD12640	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	NSYSFCVR64HD
NSYSFHD12660	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	NSYSFCVR66HD
NSYSFHD12840	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR84HD
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR86HD
NSYSFHD16660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1	1	NSYSFCVR66HD
NSYSFHD16840	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR84HD
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	NSYSFCVR86HD
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	NSYSFCVR84HD
NSYSFHD1212402D	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 2	1 to 3	1	NSYSFCVR124HD
NSYSFHD1212602D	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 3	1	NSYSFCVR126HD
NSYSFHD1612402D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYSFCVR124HD
NSYSFHD1612602D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYSFCVR126HD

# Thermal management system

## Ventilation architectures



This table helps to configure thermal architectures, but it is highly recommended to use ProClima Software to ensure the right thermal solution according to the selected architecture.

### I-Line

- Integrated architecture particularly suitable for public areas
- High capacity of extraction calories up to 1500 W
- Noise level with 1 fan: 55 dB when installed inside the upper ventilation module
- Good extraction flow rate power
- Air flow in vertical axis

<b>IP54 outlet grille</b> (NSYCAG223LPF + G3 M1 filter NSYCAF223T)	<b>Ventilated plinths</b>	<b>Fanbox</b> (1 filter NSYCAF190 for each Fanbox)	<b>Roof ventilation module</b>
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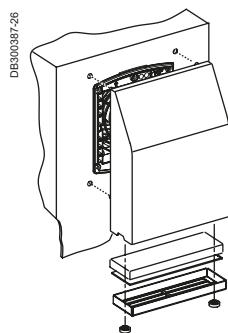
Amount to be installed		References		Amount to be installed		References	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-

Amount to be installed		References		Amount to be installed		References	
1	1	NSYSPFVX6200	NSYSPTSX3200	-	-	-	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD	-
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYS3CVR64HD	-
1	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD	-
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYSFCVR64HD	-
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFCVR86HD	-
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFCVR86HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD	-

### EMC ventilation Systems



Characteristics				EMC IP54 fan
Ingress protection rating (according to IEC 60529)				IP54
References				To effectively protect the equipment against electromagnetic disruptions, the EMC fan is equipped with: <ul style="list-style-type: none"> <li><input type="checkbox"/> a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL94 V0),</li> <li><input type="checkbox"/> a metal grille attached to the frame,</li> <li><input type="checkbox"/> a beryllium gasket guaranteeing conductivity between the perimeter of the fan unit and the enclosure.</li> </ul>
External dimensions (mm)	Cut-out (mm)	Flow rate (m <sup>3</sup> /h)	Voltage (V)	References
145 x 145 x 70	126 x 126	61	230	<b>NSY17990</b>
252 x 252 x 97	224 x 224	156	230	<b>NSY17991</b>
320 x 320 x 150	292 x 292	480	230	<b>NSY17992</b>



Characteristics				EMC IP55 cover
Colour				RAL 7035 grey
Ingress protection rating (according to IEC 60529)				IP55
Mechanical protection rating (according to IEC 62262)				IK10
Certifications				UL 508A Type 3R
Flow rate (m <sup>3</sup> /h)* with cover		Dimensions (mm)		References
Free	With 1 outlet grille	External	Cut-out	Sheet-steel painted for outdoor applications RAL 7035
74	53	240 x 180 x 60	125 x 125	<b>NSYCAP125LE</b>
110	82	350 x 305 x 80	223 x 223	<b>NSYCAP223LE</b>
165	123	350 x 305 x 80	223 x 223	<b>NSYCAP223LE</b>
316	265	430 x 373 x 105	291 x 291	<b>NSYCAP291LE</b>
502	430	430 x 373 x 105	291 x 291	<b>NSYCAP291LE</b>

\* Values given for a fan powered at 230 V. For other voltages, the values are similar.





### EMC IP54 outlet grille

Grille equipped with:

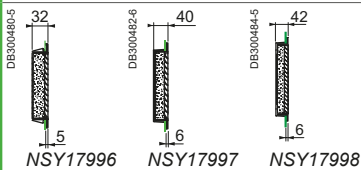
- a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL 94 V-0),
- a metal grille attached to the frame,
- a beryllium gasket guaranteeing conductivity between the perimeter of the grille and the enclosure.

IP54

NSY17996

NSY17997

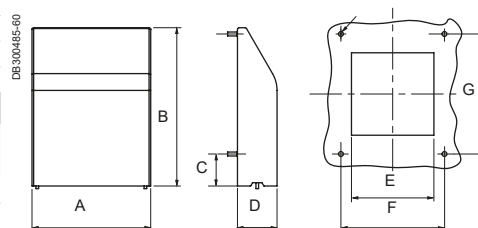
NSY17998



### Dimensions of IP54 and EMC covers

Spare filter for cover	Fan	Grille
Minor pack. 5 p	RAL 7035	RAL 7035
NSYCAF125L55	NSYCVF85M230PF	NSYCAG125LPF
NSYCAF223L55	NSYCVF165M230PF	NSYCAG223LPF
NSYCAF223L55	NSYCVF300M230PF	NSYCAG223LPF
NSYCAF291L55	NSYCVF560M230PF	NSYCAG291LPF
NSYCAF291L55	NSYCVF850M230PF	NSYCAG291LPF

Dimensions (mm)								Cover references		
A	B	C	D	E	F	G	No. of fixing points	IP55		EMC
180	240	49	60	125	157	182	4	NSYCAP125LZF	NSYCAP125LXF	NSYCAP125LE
305	350	61	80	223	283	280	8	NSYCAP223LZF	NSYCAP223LXF	NSYCAP223LE
373	430	73	105	291	351	348	8	NSYCAP291LZF	NSYCAP291LXF	NSYCAP291LE



# Thermal management system

## Accessories

### Fans by components



#### Fans

Free flow without filter or grille: 170 m<sup>3</sup>/h.

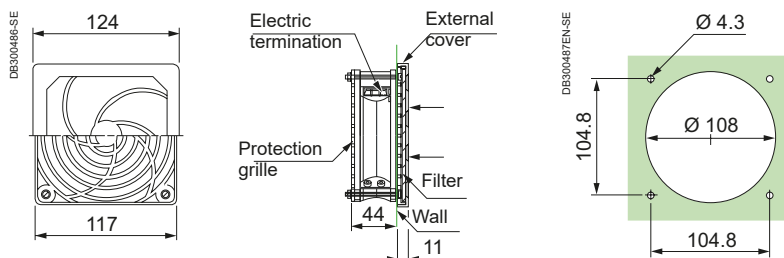
Two models according to the input voltage: 230 and 115 V, 50-60 Hz.

- **Ingress protection rating:** IP20 according to IEC 60529.
- **Options:** IP20 outlet grille (ABS, black) and filter (black polyurethane foam).

Voltage (V)	Flow rate (m <sup>3</sup> /h)	References
115	65	NSYCVF65M115PF
230	65	NSYCVF65M230PF

#### Accessories

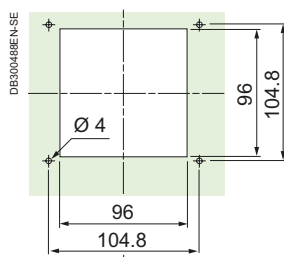
Dimensions (mm)	Description	References
124 x 124 x 11 mm	Outlet grille	NSYCAF108LP
-	Filter	NSYCAF108



#### Ventilation kit

- **Ingress protection rating:** IP33 according to IEC 60529.
- **Mechanical protection rating:** IK10 according to IEC 62262.
- **Overall flow rate:** 54 m<sup>3</sup>/h.
- **Supply:**
  - one 120 x 120 x 38 mm fan, 230 V - 50/60 Hz, free flow rate 170 m<sup>3</sup>/h,
  - two 120 x 120 mm metal grilles, RAL 7035,
  - two 115 x 98 mm anti-insect filters, stainless-steel 304L wire Ø 0.32 mm braided, 1.07-mm meshes,
  - 1 power cord,
  - the fixings required for installation.

Voltage (V)	Flow rate (m <sup>3</sup> /h)	Reference
230	54	NSYCVF54M230MM2



Top hood with fan  
ref. NSYCVF575M230MF / NSYCVF570M115MF

#### Top hood with fan and cover

Fan with hood, for floor-standing enclosures. A flow rate of 350 m<sup>3</sup>/h is obtained with an outlet grille ref. NSYCAF291LPF, (cut-out 291 x 291 mm).

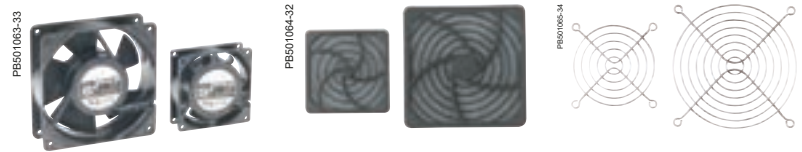
- **Ingress protection rating:** IP54 according to IEC 60529.
- **Certification:** UL.
- **Installation:** installation and removal from the outside.
- **Electric power:** 85 W.
- **Noise level:** 64 dB (A).
- **Supply:** delivered with fixings and connection terminal block.

Voltage (V)	Flow rate* (m <sup>3</sup> /h)	Weight (kg)	References
115	570	5.8	NSYCVF570M115MF
230	575	5.8	NSYCVF575M230MF

\* Flow rate measured without counter-pressure.

# Thermal management system Accessories

## Fans by components



Characteristics						Fan motor	Outlet grille	Rear protective grille
						Turbine-type fan motor for ventilation/extraction.	Outlet filter kit for enclosure ventilation. For coupling to fans <b>NSYCVF156M●●●</b> and <b>NSYCVF35M●●●</b> .	Protective grille for enclosure fan motor. For coupling to fans <b>NSYCVF156M●●●</b> and <b>NSYCVF35M●●●</b> .
Flow rate (m³/h)	Voltage (V)	Absorbed power (W)	Noise level (dB)	External dimensions (mm)	References			
156	230/50-60	17/15	42	120 x 120 x 38	<b>NSYCVF156M230</b>	<b>NSYCAG114LPF</b>	<b>NSYCVA114M</b>	
	120/50-60	17/15	42	120 x 120 x 38	<b>NSYCVF156M115</b>	<b>NSYCAG114LPF</b>	<b>NSYCVA114M</b>	
35	230/50-60	16/14	32	80 x 80 x 25	<b>NSYCVF35M230</b>	<b>NSYCAG78LPF</b>	<b>NSYCVA78M</b>	
	120/50-60	16/14	32	80 x 80 x 25	<b>NSYCVF35M115</b>	<b>NSYCAG78LPF</b>	-	

PB501065-58



## Fan connection cable

For coupling to the connection terminal of the fan motors.

Length (m)	Reference
1	<b>NSYCVAC100</b>

### Circulating for internal forced convection



P8501067-63

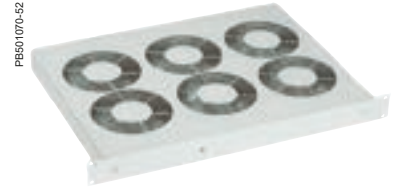
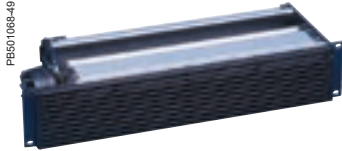
Characteristics								Circulation fan
Supply								User protection according to DIN 31001. Dimensions: ■ Fan: 119 x 119 x 38 mm. ■ Collar: length: 140 mm; fixing centre-to-centre distance: 130 mm. ■ Installation on ball-bearing.
Flow rate (m <sup>3</sup> /h)	Voltage (V)	No.	Weight (kg)	P (W)	I (mA)	dB (A)	Depth (mm)	References
170 (1)	115	-	0.82	17	-	41	-	NSYCVF170M115
	230	-	0.82	17	-	41	-	NSYCVF170M230
300 (2)	230 (50-60 Hz)	-	-	37	-	-	-	-
486 (2)	230	3	3.3	45	300	43	208	-
972 (2)	230	6	5.5	90	600	44	330	-
1458 (2)	230	9	7.8	135	900	45	452	-
552 (2)	48 (3)	3	3.3	21.3	330	43	208	-

(1) Free flow.

(2) Flow rate measured without counter-pressure.

(3) Direct current.

## Circulating



Tangential fan, 19" 2 U	Circulation fan, 19" 1 U
Air is sucked in from the front, filtered and forced vertically through the equipment.	Increases the speed of upward air circulation, in particular between trays with cards. Frontal operation LED. It is advisable to install slides, ref. <b>NSYGB140</b> to guarantee optimal support of the fan.
Delivered without connection cord	Delivered without connection cord
-	-
-	-
<b>NSYAVG2U300</b>	-
-	<b>NSYAVD1U480</b>
-	<b>NSYAVD1U970</b>
-	<b>NSYAVD1U1450</b>
-	<b>NSYAVD1U550M48</b>

# Thermal management system

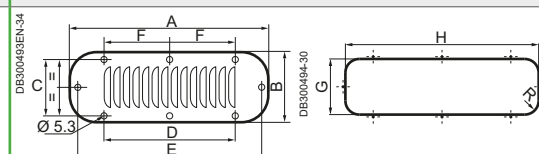
## Accessories

### Natural airing



PB501072-54

Characteristics												Metal louvre plate, rectangular	
Material												Steel	
Finish												Structured finish, epoxy-polyester powder, RAL 7035 grey	
Ingress protection rating (according to IEC 60529)												IP20	
Installation												On the sides of the enclosure. Fixing by screws	
Supply												1 metal louvre and fixing elements	
Dimensions (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	R (mm)	Slot width (mm)	No. of slots	References	
-	144	62	36	110	-	-	110	46	10	-	-	NSYCAG110X46M	
-	208	90	72	94	190	-	180	62	18	-	-	NSYCAG180X62M	
-	244	90	72	130	226	-	216	62	18	-	-	NSYCAG216X62M	
-	345	118	100	231	327	115.5	317	90.5	30	-	-	NSYCAG317X91M	
-	345	148	130	231	327	115.5	317	120	30	-	-	NSYCAG317X120M	
-	445	148	130	267	427	148.5	417	120	30	-	-	NSYCAG417X120M	
120 x 120	95	104	104.8	-	-	-	-	-	90	-	5	-	
160 x 160	110	130	140	-	-	-	-	-	-	100	5	-	
220 x 220	190	170	200	-	-	-	-	-	-	180	5	-	



### Roof accessories for natural airing



PB500595-30



PB500594-23



PB501062-30

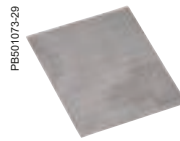
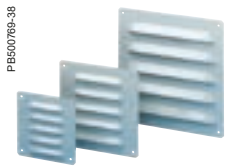


PB501071-30

Characteristics		Roof elevators	Hood for natural airing
		Allow the roof to be raised, providing natural airing.	Natural airing device for coupling to the top of metal floor-standing enclosures. Solution for combining with the ventilation slots.
Material		Zinc-coated steel	Steel
Finish		-	Structured finish, epoxy-polyester powder, RAL 7035 grey
Ingress protection rating		-	IP54 (according to IEC 60529)
Installation		They are screwed onto the structure of SF enclosures at the roof fixing point	Fixing to the top by means of caged nuts and special screws
Supply		4 elevators	1 hood for natural airing and fixing elements
Top elevation (mm) (H)	Weight (kg)	References	
26	-	NSYRE26	
60	-	NSYRE60	
-	4.6	NSYCAC228RMF	
		<b>Spare filter</b> Reference NSYCAF228R	

# Thermal management system Accessories

## Natural airing



Metal louvre plate, square		Anti-insect filters for metal louvre plate, square		
-	-	Stainless-steel 304L Ø 0.32 mm wire mesh, of 1.07 mm, thickness 0.6 mm		
-	-	-		
IP23	-	IP33		
-	-	Between the enclosure and the metal louvre		
One metal louvre	-	One anti-insect filter		
		External dimensions (mm)	Weight (kg/m <sup>2</sup> )	References
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
NSYCAG104X95LM	-	98 x 115	0.8	NSYCAF104X95X
NSYCAG130X110LM	-	133 x 158	0.8	NSYCAF130X110X
NSYCAG170X190LM	-	197 x 215	0.8	NSYCAF170X190X

## Other accessories for natural airing



Characteristics				Plastic ventilation louvres					Sealed anti-condensation valve
				Four models available according to IP rating, in vertical position.					Controls the pressure to avoid condensation following an internal temperature increase.
Material				-					PA6-V2, acrylic co-polymer membrane, water and oil repellent
Ingress protection rating (according to IEC 60529)				IP22	IP30/44 (1)	IP45	IP44	IP45	IP68
Temperature of use				-					-40... +105°C
Supply				References by unit. Order by multiples of 2 units (2, 4, 6, etc.)					-
Cut-out Ø (mm)	Permeability (2)	Pressure difference (3)	Minor pack.	References					
45.5	-	-	-	NSYCAG45LP	-	-	-	-	-
35	-	-	-	-	NSYCAG35LP	-	-	-	-
38	-	-	-	-	-	NSYCAG38LP	-	-	-
33	-	-	-	-	-	-	NSYCAG33LP	-	-
19	-	-	-	-	-	-	-	NSYCAG19LP	-
M12	16 litres/h	ΔP < 1 bar	10	-	-	-	-	-	NSYCAG12LPH1
	120 litres/h	ΔP < 0.1 bar	10	-	-	-	-	-	NSYCAG12LPH2

(1) According to installation in the Thalassa PLM wall-mounting enclosure.

(2) Air flow for ΔP = 0.07 bar.

(3) Condition for IP68.

# Thermal management system

## Introduction

➤ Choose **air-air exchangers** to take advantage of cooler ambient temperatures, such as food and beverage plants, to evacuate large amounts of heat while guaranteeing the independence of the internal and external air circuits.



### Air-air exchangers: a new range energy efficient

PB502596-48



#### Higher efficiency through improved design

With an updated external grill design, and by positioning cooling closer to critical equipment, such as speed drives, ClimaSys now provides **better flow**, **better cooling**, and **higher energy efficiency**.

PB500011SE



#### Simplicity saves your time

Our free ProClima thermal calculation software **makes specification simple and fast**. A new thermal solutions module integrates calculation for cooling and control devices, helping you maximize the energy efficiency of your systems.



#### Faster installation

A number of design improvements reduce installation time. Mounting requires single cut-outs and a minimum of screws. Wiring is accomplished with smart interconnects.



#### Protection

All side-mounted models are IP55 internally according to IEC 60529.

DB406142



#### New certifications and declarations

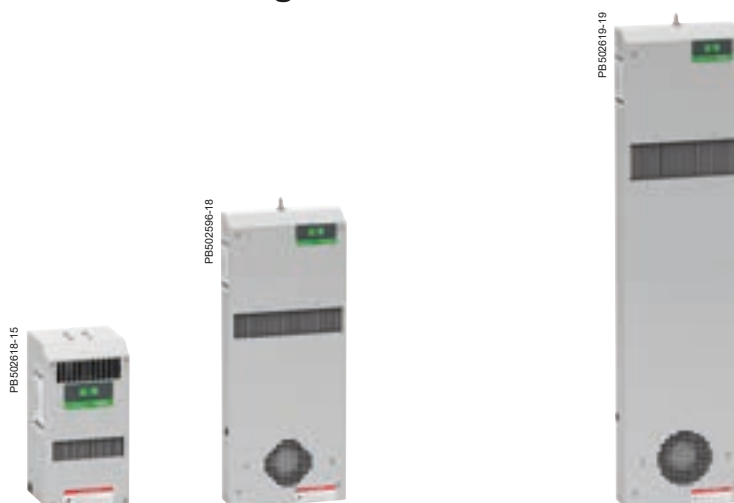
- CE
- EAC



# Thermal management system

## Characteristics

### Air-air exchangers



Characteristics		Side-mounting models			
	The air-air exchanger can be used in heavily polluted environments provided that the ambient temperature is at least 10°C lower than the internal temperature wanted. Main components: thermostat adjustment system, exchange cassette, fans for internal and external circuits of the enclosure.				
Material	Painted zinc-coated steel				
Colour	RAL 7035 grey				
Ingress protection rating (according to IEC 60529)	IP55				
Certifications and declarations	CE, EAC				
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.				
<b>Cooling characteristics</b>					
Specific power	22 W/K	36 W/K	50 W/K	80 W/K	
Air flow of the internal circuit (enclosure)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h	
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h	
Thermostat type	-	Mechanical	Mechanical	Mechanical	
Temperature setting range	-	+5 ... +60°C	+5 ... +60°C	+5 ... +60°C	
Temperature range external circuit (ambient)	-5 ... +55°C	-5 ... +55°C	-5 ... +55°C	-5 ... +55°C	
Type of fluid	Air	Air	Air	Air	
<b>Electric characteristics</b>					
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	
Rated Intensity	0.5 A	0.7 A	0.7 A	1.1 A	
Power consumption absorbed	72 W	160 W	160 W	240 W	
Thermal protection recommended (fuse)	T1 A	T1 A	T1 A	T2 A	
<b>Physical characteristics</b>					
External dimensions (H x W x D)	413 x 189 x 149 mm	771 x 316 x 103 mm	771 x 316 x 103 mm	1260 x 317 x 148 mm	
Protection degree IP internal /external (according to IEC 60529)	IP55 / IP22	IP55 / IP22	IP55 / IP22	IP55 / IP22	
Noise level	59 dB	62 dB	62 dB	64 dB	
Weight of unit	7 kg	10 kg	10 kg	17 kg	
<b>References</b>					
	<b>NSYCEA22E</b>	<b>NSYCEA36</b>	<b>NSYCEA50</b>	<b>NSYCEA80</b>	

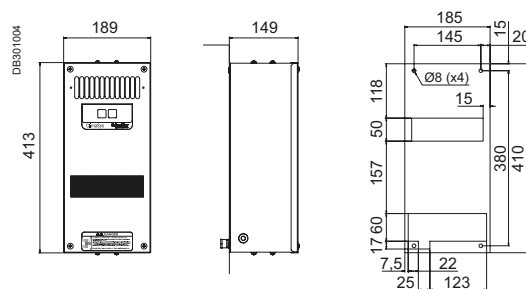
# Thermal management system

## Dimensions

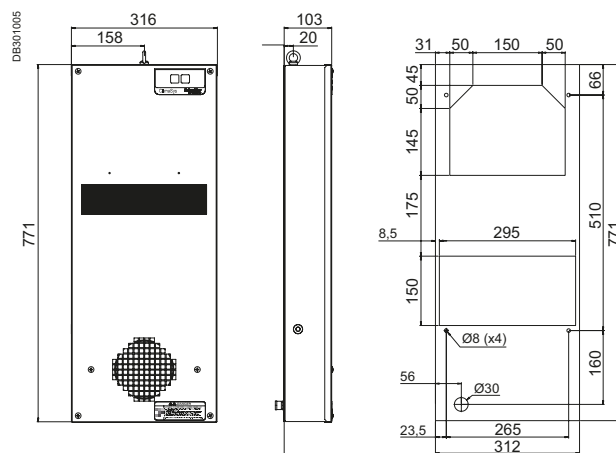
### Air-air exchangers

#### Side-mounting models

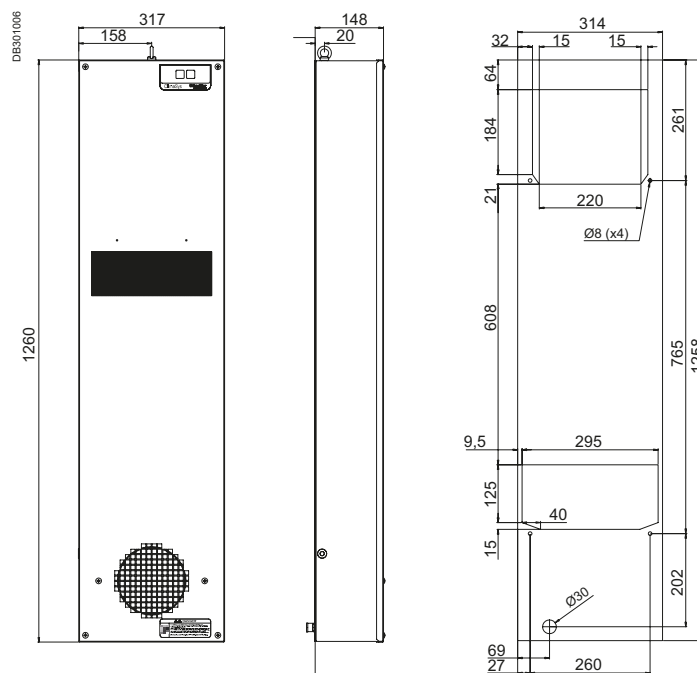
##### NSYCEA22E



##### NSYCEA36 / NSYCEA50



##### NSYCEA80



Units of measurement are mm.

# Thermal management system Introduction

➤ Choose **air-water exchangers** for especially difficult environments where there is no external air circuit available but a stable cold-water circuit can be supplied.

## Air-water exchangers: for highly polluted environments

PB502806-30



### Many mounting options give you the right fit

Air-water exchangers offer roof and side mounting options.

PB502808-32



PB503821-31



### Extended ratings to meet any challenge

Provide options for up to 15 kW of cooling power, among the world's highest power ratings for air-water exchangers.

PB502855-32



### New material options adapt to any application

Air-water exchangers can be provided in the same material as electrical enclosures for (for example stainless steel) a homogeneous appearance and thermal performance.

DB123816-26



### Certifications and declarations

- UL
- CE
- EAC

PB502807-13



### Protection

All side -mounting models are IP55 type protected internally and externally according to IEC 60529. Top-mounting models are IP54.

### Air-water exchangers



Characteristics	Side-mounting models					
	Main components: thermostat adjustment system, Exchange cassette, fans for internal circuits of the enclosure, protection device against possible leaks. Eyebolts included in all models.					
Material	RAL 7035 grey painted zinc-coated steel or stainless steel					
Ingress protection rating (according to IEC 60529)	IP55					
Certifications and declarations	<ul style="list-style-type: none"> <li>■ CE declaration</li> <li>■ UL (only references ending with UL)</li> <li>■ EAC</li> </ul>					
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.					
<b>Cooling characteristics</b>						
Cooling power W10A35	1000 W	1750 W	2500 W	3500 W	4500 W	
Hydraulic circuit maximum pressure	5 bar	5 bar	5 bar	5 bar	5 bar	
Internal airflow	330 m³/h	570 m³/h	860 m³/h	1050 m³/h	1450 m³/h	
Thermostat type	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	
Temperature setting range	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	
Temperature range external circuit (ambient)	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	
Type of fluid	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	
Water flow	150 l/h	150 l/h	500 l/h	500 l/h	500 l/h	
Pressure drop	0.1 bar	0.1 bar	0.3 bar	0.2 bar	0.2 bar	
Hydraulic connection	3/8" G	1/2" G	1/2" G	1/2" G	1/2" G	
<b>Electric characteristics</b>						
Input voltage	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	
Rated Intensity	0.17 A	0.36 A	0.33 A	0.55 A	0.71 A	
Power consumption absorbed W10A35	29 W	75 W	80 W	130 W	160 W	
Thermal protection recommended (fuse)	T2 A	T2 A	T2 A	T2 A	T2 A	
<b>Physical characteristics</b>						
External dimensions (H x W x D)	450 x 310 x 115 mm	901 x 398 x 137 mm	901 x 398 x 137 mm	1148 x 398 x 163 mm	1148 x 398 x 163 mm	
Protection degree IP internal / external (according to IEC 60529)	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	
Noise level	55 dB (A)	58 dB (A)	58 dB (A)	64 dB (A)	69 dB (A)	
Weight of unit	12 kg	18 kg	19 kg	29 kg	30 kg	
<b>References</b>						
Steel	NSYCEW1K	NSYCEW1K8	NSYCEW2K5	NSYCEW3K5	NSYCEW4K5	
Stainless steel	NSYCEWX1K	NSYCEWX1K8	NSYCEWX2K5	NSYCEWX3K5	NSYCEWX4K5	
Steel UL	NSYCEW1KUL	NSYCEW1K8UL	NSYCEW2K5UL	NSYCEW3K5UL	NSYCEW4K5UL	
Stainless steel UL	NSYCEWX1KUL	NSYCEWX1K8UL	NSYCEWX2K5UL	NSYCEWX3K5UL	NSYCEWX4K5UL	

\* 60 Hz only for UL versions.

# Thermal management system

## Characteristics



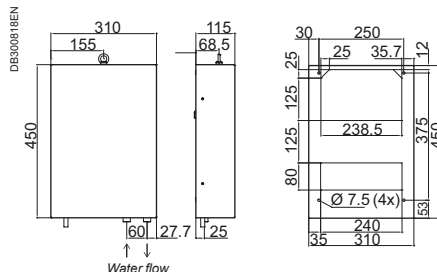
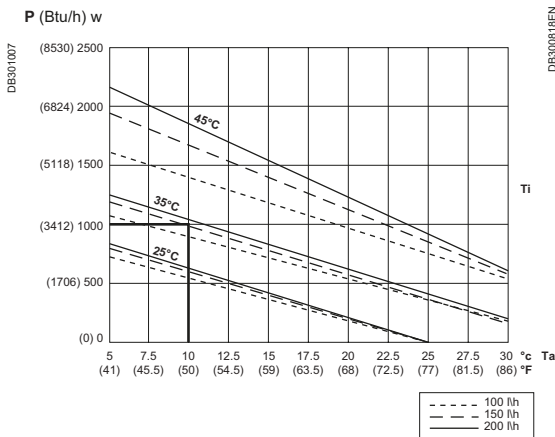
							Top-mounting model
							IP54
6000 W	6000 W	10000 W	10000 W	15000 W	15000 W	2500 W	
5 bar	8 bar	8 bar	8 bar	8 bar	8 bar	5 bar	
1450 m³/h	1450 m³/h	2420 m³/h	2420 m³/h	2900 m³/h	2900 m³/h	750 m³/h	
Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	
+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	
+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	
Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	
800 l/h	800 l/h	2000 l/h	2000 l/h	2000 l/h	2000 l/h	500 l/h	
0.5 bar	0.5 bar	3.5 bar	3.5 bar	4.8 bar	4.8 bar	0.3 bar	
1/2" G	1/2" G	3/4" G	3/4" G	3/4" G	3/4" G	1/2" G	
1 x 230 V / 50-60 Hz*	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	
0.71 A	0.4 A	1.2 A	0.75 A	1.4 A	0.9 A	0.30 A	
160 W	170 W	260 W	280 W	320 W	420 W	65 W	
T2A	T1A	T2A	T2A	T4A	T2A	T2A	
1500 x 450 x 163 mm	1500 x 450 x 163 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	270 x 400 x 542 mm	
IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP54 / IP55	
69 dB (A)	69 dB (A)	70 dB (A)	70 dB (A)	72 dB (A)	70 dB (A)	58 dB (A)	
40 kg	42 kg	90 kg	90 kg	92 kg	92 kg	19 kg	
<b>NSYCEW6K</b>	<b>NSYCEW6K2P4</b>	<b>NSYCEW10K</b>	<b>NSYCEW10K2P4</b>	<b>NSYCEW15K</b>	<b>NSYCEW15K2P4</b>	<b>NSYCEW2K5R</b>	
<b>NSYCEWX6K</b>	<b>NSYCEWX6K2P4</b>	<b>NSYCEWX10K</b>	<b>NSYCEWX10K2P4</b>	<b>NSYCEWX15K</b>	<b>NSYCEWX15K2P4</b>	-	
<b>NSYCEW6KUL</b>	-	-	-	-	-	-	
<b>NSYCEWX6KUL</b>	-	-	-	-	-	-	

### Air-water exchangers

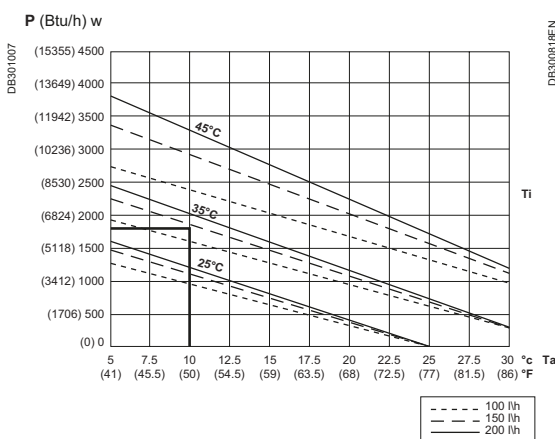
#### Side-mounting models

##### NSYCEW••1K••

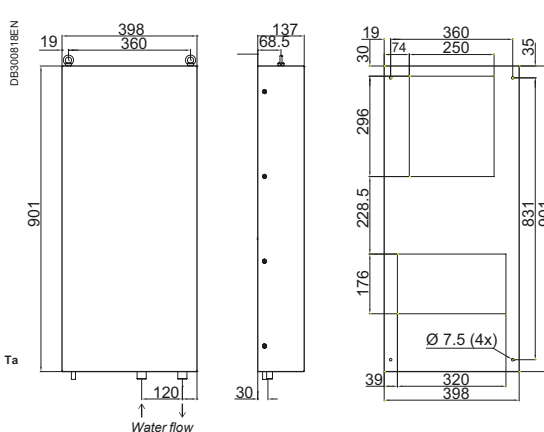
#### Performance curves



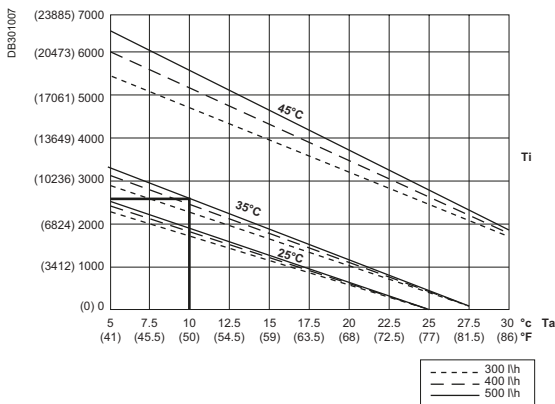
#### Performance curves



##### NSYCEW••1K8•• – NSYCEW••2K5••



#### Performance curves



$P$  = Cooling power  
 $T_a$  = Inlet water temperature  
 $T_i$  = Desired internal temperature of the enclosure

Units of measurement are mm.

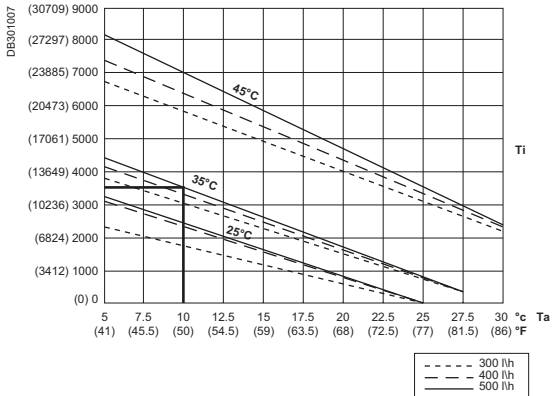
# Thermal management system

## Dimensions

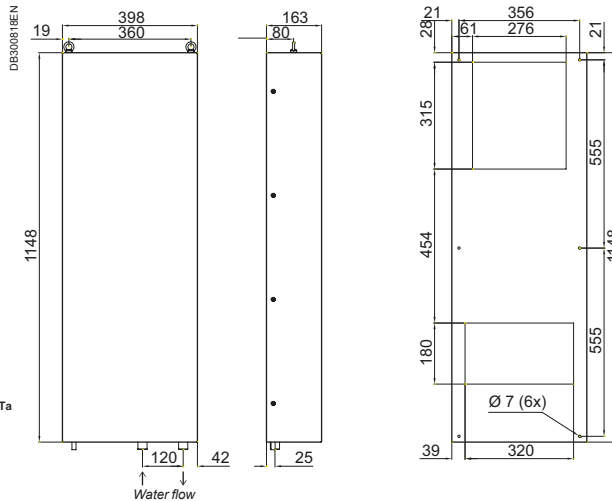
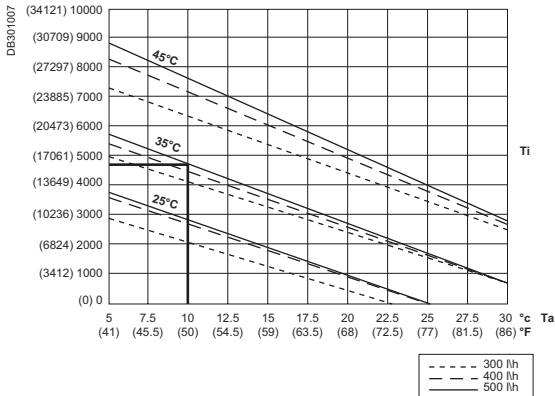
### NSYCEW•3K5• – NSYCEW•4K5•

#### Performance curves

P (Btu/h) w

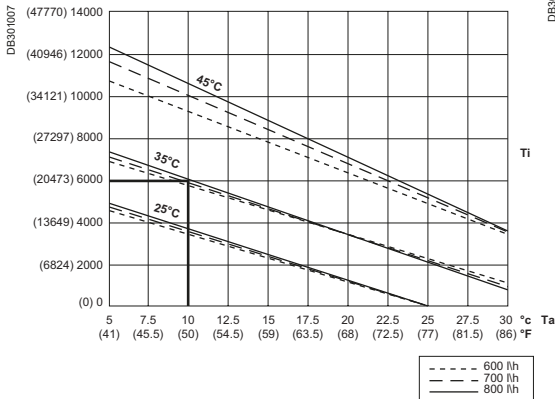


P (Btu/h) w

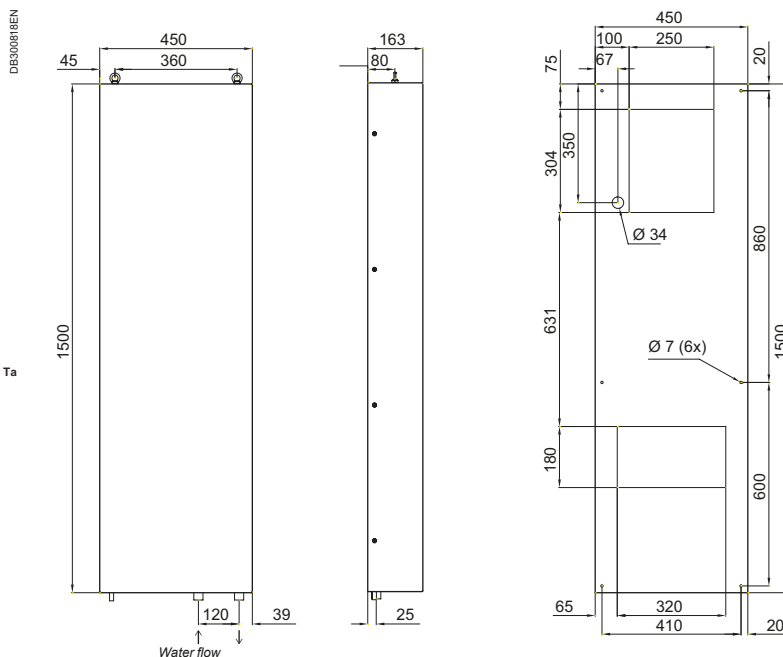


#### Performance curves

P (Btu/h) w



### NSYCEW•6K•



P = Cooling power  
 Ta = Inlet water temperature  
 Ti = Desired internal temperature of the enclosure

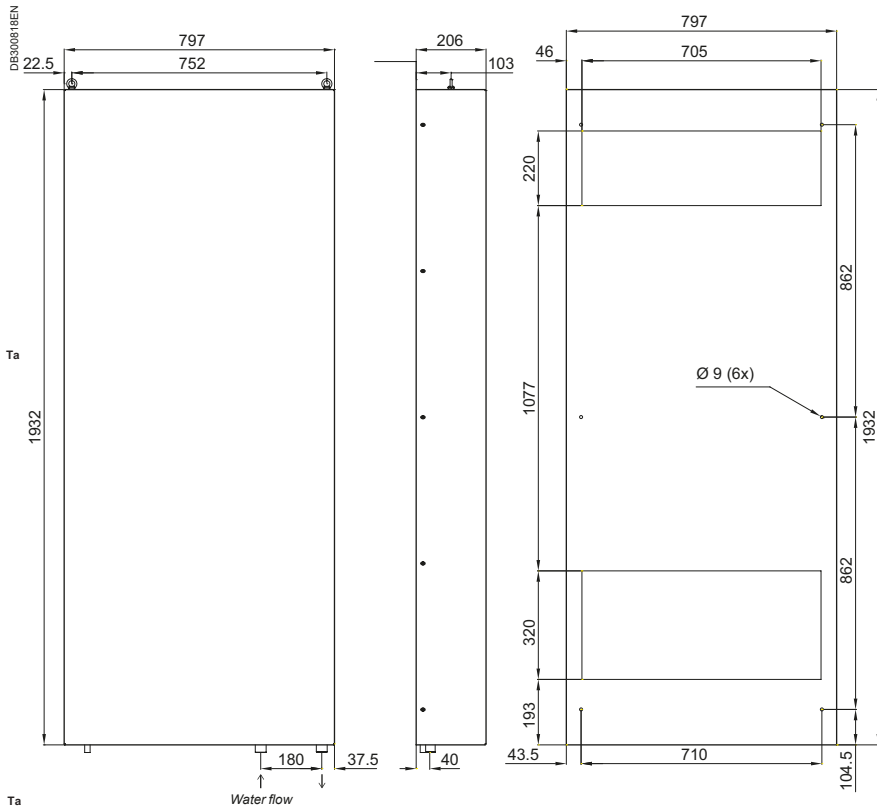
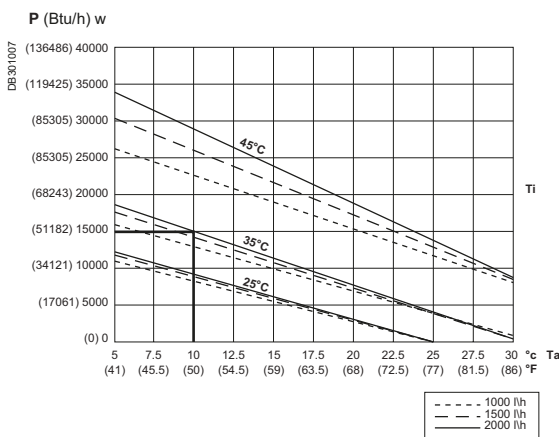
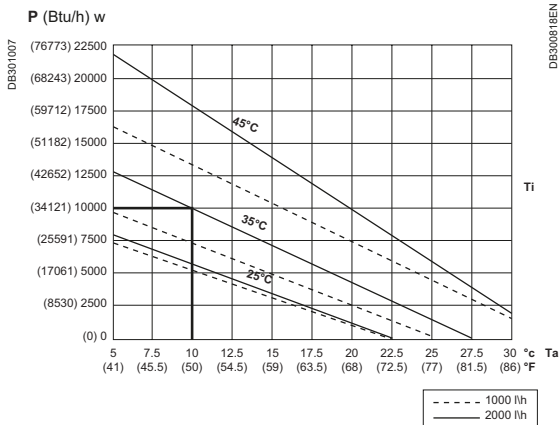
Units of measurement are mm.

# Thermal management system

## Dimensions

### NSYCEW••10K•• – NSYCEW••15K••

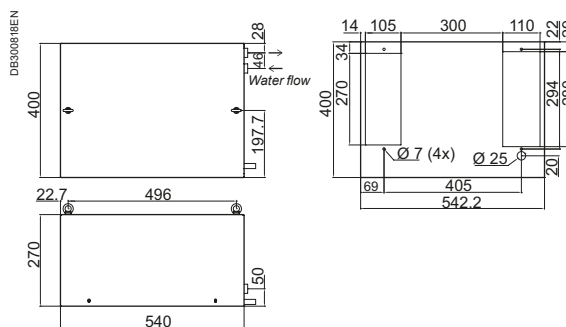
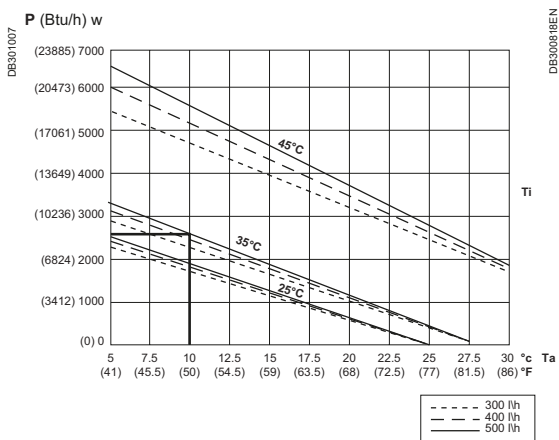
#### Performance curves



### Top-mounting models

#### NSYCEW2K5R

#### Performance curves



$P$  = Cooling power  
 $T_a$  = Inlet water temperature  
 $T_i$  = Desired internal temperature of the enclosure

Units of measurement are mm.



# Thermal management system

## Accessories



Characteristics	Air-air and air-water exchangers				Retrofit panel	
	CE		UL / CE			
	Steel	Stainless steel	Steel	Stainless steel		
					Panel that enable to mount a new ClimaSys CE units by replacement of old Schneider Electric cooling systems.	
Material					Metal painted	
Colour					RAL 7035 grey	
Supply					1 unit	
<b>References</b>					<b>Retrofit panel</b>	<b>Old Schneider Electric cooling system</b>
<b>Air - air exchangers</b>						
Side-mounting models	NSYCEA36	-	-	-	NSYCEARTFIT36	NSYCEA35W230VL NSYCEA35W230VLE
	NSYCEA50	-	-	-	-	-
	NSYCEA80	-	-	-	NSYCEARTFIT80	NSYCEA70W230VL
<b>Air-water exchangers</b>						
Side-mounting models	NSYCEW1K	NSYCEWX1K	NSYCEW1KUL	NSYCEWX1KUL	-	-
	NSYCEW1K8	NSYCEWX1K8	NSYCEW1K8UL	NSYCEWX1K8UL	-	-
	NSYCEW2K5	NSYCEWX2K5	NSYCEW2K5UL	NSYCEWX2K5UL	NSYCEWRTFIT2K5	NSYCEW2100W230VL
	NSYCEW3K5	NSYCEWX3K5	NSYCEW3K5UL	NSYCEWX3K5UL	NSYCEWRTFIT3K5	NSYCEW3150W230VL
	NSYCEW4K5	NSYCEWX4K5	NSYCEW4K5UL	NSYCEWX4K5UL	-	-
	NSYCEW6K	NSYCEWX6K	NSYCEW6KUL	NSYCEWX6KUL	-	-
	NSYCEW6K2P4	NSYCEWX6K2P4	-	-	-	-
	NSYCEW10K	NSYCEWX10K	-	-	-	-
	NSYCEW10K2P4	NSYCEWX10K2P4	-	-	-	-
	NSYCEW15K	NSYCEWX15K	-	-	-	-
	NSYCEW15K2P4	NSYCEWX15K2P4	-	-	-	-
Top-mounting model	NSYCEW2K5R	-	-	-	-	-



# Thermal management system

## Introduction

> Choose **cooling units** for harsh environments, where **ambient temperatures can reach up to 55°C**. The unit's integrated alarm system will signal you in the event of any operational anomaly.

### Cooling units: For a high ambient temperature

PB502831



#### Several mounting solutions

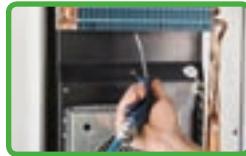
Three models: roof model, floor model, side model. There is also a SLIM model which permits a space saving and perfect integration on the doors of control panels.



#### Large range of power levels

Provide options for up to 15 kW of cooling power.

PB502661-33



#### Enhanced protection

An internal grid of a new design protects the components and personnel during operation of the equipment while at the same time **facilitating cleaning and maintenance**.

PB502613



#### Speed of access to information

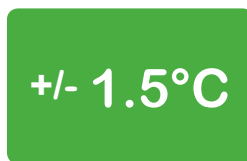
The new screen offers fast access to the configuration parameters and information from the sensors located in the enclosure (does not apply to heavy-duty outdoor enclosures).

PB502654-12



#### New materials

Stainless steel and painted galvanized steel for the outside dedicated to clean, hygienic environments such as food and beverage production plants.



#### Precision of temperature control

All ClimaSys cooling units are provided with a precise **electronic control system by thermostat** which gives them high cooling precision (+/- 1.5°C).



#### Broad temperature range for outdoor enclosures

The outdoor version can withstand extreme environments, with an **operating temperature range** of -20°C to +55°C.

DB 123116-26



#### Certifications and declarations

- UL
- CE
- EAC

PB502660-32



#### Simplicity

No tools needed to replace the filter. It just takes a few seconds.



PB502625-27

PB502632-20

PB502626-20

PB502623-14

# Thermal management system

## Characteristics

### Cooling units



Characteristics	Side-mounting models			
	<ul style="list-style-type: none"> <li>■ Respect for the environment by using environmentally friendly gas R134a (HFC).</li> <li>■ Electronic thermostats in all models.</li> <li>■ Alarm signal for door contact included in all models.</li> <li>■ Eyebolts included.</li> <li>■ The external filter, not included as standard, is strongly recommended for harsh environments.</li> <li>■ Digital screen.</li> <li>■ Evaporation condensation water unit integrated from 800 W to 15 kW.</li> </ul>			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	<ul style="list-style-type: none"> <li>■ CE declaration</li> <li>■ UL (only references ending with UL)</li> <li>■ EAC</li> </ul>			
Installation	Indoor			
<b>Cooling characteristics</b>				
Cooling power L35-L35 according to EN 14511	300 W (1024 Btu/h)	380 W (1297 Btu/h)	640 W (2184 Btu/h)	820 W (2798 Btu/h)
Cooling power L35-L50 according to EN 14511	150 W (512 Btu/h)	240 W (819 Btu/h)	470 W (1604 Btu/h)	680 W (2320 Btu/h)
Air flow of the internal circuit (enclosure)	280 m³/h	280 m³/h	330 m³/h	330 m³/h
Air flow of the external circuit (ambient)	280 m³/h	280 m³/h	570 m³/h	570 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
Maximum outside temperature	+55°C	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*
Temperature range external circuit (ambient)	+5 ... +55°C*	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +55°C* (+5 ... +50°C)*
Type of cooling gas	R134a	R134a	R134a	R134a
Cooling gas weight	0.13 kg	0.16 kg	0.23 kg	0.23 kg
Maximum pressure cooling circuit	25 bar	26 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
External filter	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555
<b>Electric characteristics</b>				
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**
Starting / Rated Intensity	4.2 A / 1.5 A	6.0 A / 1.6 A	8.1 A / 2.1 A	10.8 A / 2.6 A
Power consumption absorbed L35-L35 according to EN 14511	270 W	280 W	400 W	440 W
Power consumption absorbed L35-L50 according to EN 14511	310 W	330 W	470 W	490 W
Energy efficiency ratio (EER) L35-L35	1.1	1.4	1.6	1.9
Thermal protection recommended (fuse)	T4 A	T4 A	T6 A	T6 A
<b>Physical characteristics</b>				
External dimensions (H x W x D)	340 x 525 x 135 mm	460 x 285 x 180 mm	606 x 316 x 212 mm	783 x 348 x 215 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	61 dB	60 dB	65 dB	65 dB
Weight of unit	17 kg	17 kg	21 kg	27 kg
<b>References</b>				
Steel	<b>NSYCU300H</b>	<b>NSYCU400</b>	<b>NSYCU600</b>	<b>NSYCU800</b>
Stainless steel	-	<b>NSYCUX400</b>	<b>NSYCUX600</b>	<b>NSYCUX800</b>
Steel UL	-	<b>NSYCU400UL</b>	<b>NSYCU600UL</b>	<b>NSYCU800UL</b>
Stainless steel UL	-	-	<b>NSYCUX600UL</b>	<b>NSYCUX800UL</b>

\* 50°C at 60 Hz.

\*\* Certification UL only 60 Hz.

# Thermal management system

## Characteristics



1000 W (3412 Btu/h)	1000 W (3412 Btu/h)	1250 W (4265 Btu/h)	1250 W (4265 Btu/h)	1600 W (5459 Btu/h)	1600 W (5459 Btu/h)	2000 W (6824 Btu/h)
790 W (2696 Btu/h)	790 W (2696 Btu/h)	910 W (3105 Btu/h)	910 W (3105 Btu/h)	1230 W (4197 Btu/h)	1230 W (4197 Btu/h)	1510 W (5152 Btu/h)
330 m³/h	330 m³/h	570 m³/h	570 m³/h	570 m³/h	570 m³/h	860 m³/h
570 m³/h	570 m³/h	860 m³/h	860 m³/h	1050 m³/h	1050 m³/h	1050 m³/h
Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*	+55°C	+55°C (+50°C)*	+50°C*	+55°C (+50°C)*
+5 ... +55°C* (+5 ... +50°C)*	+5 ... +50°C (+5 ... +50°C)*	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +50°C	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +50°C	+5 ... +55°C* (+5 ... +50°C)*
R134a	R134a	R134a	R134a	R134a	R134a	R134a
0.23 kg	0.23 kg	0.38 kg	0.38 kg	0.45 kg	0.45 kg	0.54 kg
25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**	25 bar	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555
1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz 2 x 400-460 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz 2 x 460 V / 60 Hz**	1 x 230 V / 50-60 Hz**
10.5 A / 3 A	8 A / 2 A	11 A / 3.8 A	8.5 A / 2.8 A	18 A / 5.4 A	11 A / 2.9 A	24 A / 6.5 A
570 W	590 W	650 W	650 W	850 W	840 W	1080 W
650 W	670 W	760 W	770 W	970 W	960 W	1290 W
1.8	1.7	1.9	1.9	1.9	1.9	1.9
T6 A	T4 A	T6 A	T4 A	T10 A	T6 A	T10 A
783 x 348 x 215 mm	783 x 348 x 215 (+58) mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm
IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
65 dB	65 dB	65 dB	65 dB	65 dB	65 dB	65 dB
28 kg	29 kg	38 kg	40 kg	40 kg	42 kg	52 kg
<b>NSYCU1K</b>	<b>NSYCU1K2P4</b>	<b>NSYCU1K2</b>	<b>NSYCU1K22P4</b>	<b>NSYCU1K6</b>	<b>NSYCU1K62P4</b>	<b>NSYCU2K</b>
<b>NSYCUX1K</b>	<b>NSYCUX1K2P4</b>	<b>NSYCUX1K2</b>	<b>NSYCUX1K22P4</b>	<b>NSYCUX1K6</b>	<b>NSYCUX1K62P4</b>	<b>NSYCUX2K</b>
<b>NSYCU1KUL</b>	<b>NSYCU1K2P4UL</b>	<b>NSYCU1K2UL</b>	-	<b>NSYCU1K6UL</b>	<b>NSYCU1K62P4UL</b>	<b>NSYCU2KUL</b>
<b>NSYCUX1KUL</b>	<b>NSYCUX1K2P4UL</b>	<b>NSYCUX1K2UL</b>	-	<b>NSYCUX1K6UL</b>	<b>NSYCUX1K62P4UL</b>	<b>NSYCUX2KUL</b>

# Thermal management system

## Characteristics

### Cooling units



Characteristics	Side-mounting models			Floor-standing models
	<ul style="list-style-type: none"> <li>Alarm signal for door contact included in all models.</li> <li>Eyebolts included.</li> <li>The external filter, not included as standard, is strongly recommended for harsh environments.</li> </ul>			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	<ul style="list-style-type: none"> <li>CE declaration</li> <li>UL (only references ending with UL)</li> <li>EAC</li> </ul>			
Installation	Indoor			Indoor
<b>Cooling characteristics</b>				
Cooling power L35-L35 according to EN 14511	2000 W (6824 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)	5800 W (19790 Btu/h)
Cooling power L35-L50 according to EN 14511	1510 W (5152 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)	4350 W (14843 Btu/h)
Air flow of the internal circuit (enclosure)	860 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
Air flow of the external circuit (ambient)	1050 m³/h	1450 m³/h	1450 m³/h	2900 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 ... +46°C (+45°C)*	+20 ... +46°C (+45°C)*	+20 ... +46°C (+45°C)*	+20 ... +46°C
Maximum outside temperature	+50°C (+45°C)	+50°C (+45°C)	+50°C (+45°C)	+50°C
Temperature range external circuit (ambient)	+5 ... +50°C (+5 ... +45°C)*	+5 ... +50°C (+5 ... +45°C)*	+5 ... +50°C (+5 ... +45°C)*	+10 ... +50°C
Type of cooling gas	R134a	R134a	R134a	R407c
Cooling gas weight	0.59 kg	0.84 kg	1.14 kg	1.8 kg
Maximum pressure cooling circuit	25 bar (28 bar)*	25 bar (28 bar)*	25 bar (28 bar)*	27 bar
External filter	Optional, see page 555	Optional, see page 555	Optional, see page 555	Polyurethane filter standard
<b>Electric characteristics</b>				
Input voltage	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50 Hz
Starting / Rated Intensity	10 A / 2.5 A	14 A / 2.6 A	18 A / 3.6 A	21.7 A / 5.9 A
Power consumption absorbed L35-L35 according to EN 14511	970 W	1220 W	1780 W	2340 W
Power consumption absorbed L35-L50 according to EN 14511	1150 W	1440 W	2050 W	3880 W
Energy efficiency ratio (EER) L35-L35	2.1	2.4	2.2	2.5
Thermal protection recommended (fuse)	T6 A	T6 A	T8 A	T8 A
<b>Physical characteristics</b>				
External dimensions (H x W x D)	999 x 405 x 237 mm	1270 x 500 x 336 mm	1270 x 500 x 336 mm	2000 x 600 x 380 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP54 / IP34
Noise level	65 dB	70 dB	70 dB	72 dB
Weight of unit	54 kg	84 kg	85 kg	150 kg
<b>References</b>				
Steel	NSYCU2K3P4	NSYCU3K3P4	NSYCU4K3P4	NSYCU6K3P4
Stainless steel	NSYCU2K3P4	NSYCU3K3P4	NSYCU4K3P4	-
Steel UL	NSYCU2K3P4UL	NSYCU3K3P4UL	NSYCU4K3P4UL	-
Stainless steel UL	NSYCU2K3P4UL	NSYCU3K3P4UL	NSYCU4K3P4UL	-

\* Certification UL only 60 Hz.

# Thermal management system

## Characteristics



Indoor

6050 W (20643 Btu/h)	7600 W (25932 Btu/h)	7950 W (27126 Btu/h)	9400 W (32074 Btu/h)	9850 W (33610 Btu/h)	14800 W (50500 Btu/h)	15150 W (51694 Btu/h)
4350 W (14843 Btu/h)	5700 W (19449 Btu/h)	5930 W (20234 Btu/h)	7000 W (23885 Btu/h)	7350 W (25079 Btu/h)	11300 W (38557 Btu/h)	11600 W (39581 Btu/h)
1450 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	4300 m³/h	4300 m³/h
2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	5800 m³/h	5800 m³/h
Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
+50°C	+50°C	+50°C	+50°C	+50°C	+55°C	+55°C
+10 ... +50°C	+10 ... +50°C	+10 ... +50°C	+10 ... +45°C	+10 ... +45°C	+10 ... +50°C	+10 ... +50°C
R407c	R134a	R134a	R134a	R134a	R410a	R410a
1.8 kg	2.8 kg	2.8 kg	2.3 kg	2.3 kg	3.5 kg	3.5 kg
27 bar	27 bar	27 bar	27 bar	27 bar	39 bar	39 bar
Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard
3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz
23.5 A / 6.8 A	43.8 A / 7.2 A	44.5 A / 7.9 A	30.7 A / 9.1 A	32.5 A / 10.3 A	49 A / 11 A	51 A / 11.8 A
2920 W	3530 W	4210 W	3850 W	4380 W	5750 W	6580 W
4520 W	4270 W	5340 W	5400 W	6340 W	6900 W	7760 W
2.1	2.2	1.9	2.4	2.2	2.6	2.3
T8 A	T10 A	T10 A	T18 A	T18 A	T20 A	T20 A
2000 x 600 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 550 mm	2000 x 800 x 550 mm
IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34
72 dB	72 dB	72 dB	77 dB	77 dB	67 dB	67 dB
150 kg	160 kg	160 kg	180 kg	180 kg	240 kg	240 kg
<b>NSYCU6K3P460</b>	<b>NSYCU8K3P4</b>	<b>NSYCU8K3P460</b>	<b>NSYCU10K3P4</b>	<b>NSYCU10K3P460</b>	<b>NSYCU15K3P4</b>	<b>NSYCU15K3P460</b>
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

# Thermal management system

## Characteristics

### Cooling units



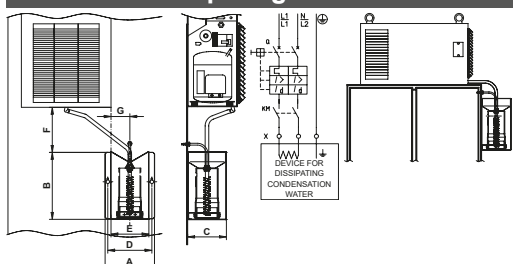
Characteristics	Roof-mounting models		
	<ul style="list-style-type: none"> <li>Respect for the environment by using environmentally friendly gas R134a (HFC).</li> <li>Integrated water condensation exit system.</li> <li>Alarm signal for door contact included in all models.</li> <li>Eyebolts included.</li> <li>The external filter, not included as standard, is strongly recommended for harsh environments.</li> </ul>		
Material	RAL 7035 grey painted zinc-coated steel or stainless steel.		
Certifications and declarations	<ul style="list-style-type: none"> <li>CE declaration</li> <li>UL (only references ending with UL)</li> <li>EAC</li> </ul>		
Installation	Indoor		
<b>Cooling characteristics</b>			
Cooling power L35-L35 according to EN 14511	410 W (1399 Btu/h)	820 W (2798 Btu/h)	1150 W (3924 Btu/h)
Cooling power L35-L50 according to EN 14511	240 W (819 Btu/h)	680 W (2320 Btu/h)	900 W (3071 Btu/h)
Air flow of the internal circuit (enclosure)	235 m <sup>3</sup> /h	570 m <sup>3</sup> /h	570 m <sup>3</sup> /h
Air flow of the external circuit (ambient)	330 m <sup>3</sup> /h	860 m <sup>3</sup> /h	1010 m <sup>3</sup> /h
Thermostat type	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
Maximum outside temperature	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*
Temperature range external circuit (ambient)	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +55°C* (+5 ... +50°C)*
Type of cooling gas	R134a	R134a	R134a
Cooling gas weight	0.17 kg	0.31 kg	0.63 kg
Maximum pressure cooling circuit	28 bar	25 bar (28 bar)**	25 bar (28 bar)**
External filter	Optional, see page 555	Optional, see page 555	Optional, see page 555
<b>Electric characteristics</b>			
Input voltage	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**
Starting / Rated Intensity	4 A / 1.5 A	12 A / 2.9 A	11 A / 3.2 A
Power consumption absorbed L35-L35 according to EN 14511	230 W	510 W	550 W
Power consumption absorbed L35-L50 according to EN 14511	290 W	560 W	660 W
Energy efficiency ratio (EER) L35-L35	1.8	1.6	2.1
Thermal protection recommended (fuse)	T4 A	T6 A	T6 A
<b>Physical characteristics</b>			
External dimensions (H x W x D)	264 x 486 x 259 mm	340 x 600 x 340 mm	415 x 567 x 401 mm
Protection degree IP internal /external according to IEC 60529	IP54 / IP34	IP54 / IP34	IP54 / IP34
Noise level	65 dB	65 dB	65 dB
Weight of unit	18 kg	23 kg	40 kg
<b>References</b>			
Steel	NSYCU400R	NSYCU800R	NSYCU1K2R
Stainless steel	NSYCUX400R	NSYCUX800R	NSYCUX1K2R
Steel UL	NSYCU400RUL	NSYCU800RUL	NSYCU1K2RUL

\* 50°C at 60 Hz.

\*\* Certification UL only 60 Hz.

\*\*\* For cooling units greater than 65 kg we recommend to place universal cross rails NSYSUCR4060 or NSYSUCR4080.

#### Device for dissipating condensation water (external installation)



- Device allowing the evacuation of condensation water from the internal battery (evaporator).
- Supplied with stainless-steel support.
- Power supply:

Operating voltage  $\pm 10\%$ 

Voltage	Starting current	Thermal protection recommended	Evaporation capacity	Resistance type
230 V~	2.9 A	T 3 A	200 cl/h	PTC
115 V~	5.8 A	T 6 A		

Heat sink  
NSYCUAD



# Thermal management system

## Characteristics



1550 W (5289 Btu/h)	2050 W (6995 Btu/h)	2050 W (6995 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)
1200 W (4095 Btu/h)	1560 W (5323 Btu/h)	1560 W (5323 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)
860 m³/h	1050 m³/h	1050 m³/h	860 m³/h	1450 m³/h
1820 m³/h	1820 m³/h	1820 m³/h	3410 m³/h	3410 m³/h
Electronic	Electronic	Electronic	Electronic	Electronic
+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
+55°C	+55°C (+50°C)**	+50°C (+45°C)**	+50°C (+45°C)**	+50°C (+45°C)**
+5 ... +55°C* (+5 ... +50°C)*	+5 ... +55°C*	+5 ... +50°C (+5 ... +45°C)**	+5 ... +50°C (+5 ... +45°C)**	+5 ... +50°C (+5 ... +45°C)**
R134a	R134a	R134a	R134a	R134a
0.54 kg	0.55 kg	0.55 kg	1.20 kg	1.60 kg
25 bar (28 bar)**	25 bar	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555
1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*
18 A / 4.5 A	24 A / 6 A	10 A / 1.9 A	15.7 A / 2.5 A	17 A / 3.6 A
810 W	1150 W	990 W	1210 W	1790 W
930 W	1250 W	1190 W	1450 W	2010 W
1.9	1.8	2.1	2.4	2.2
T10 A	T10 A	T6 A	T6 A	T6 A
415 x 567 x 401 mm	415 x 567 x 401 mm	415 x 567 x 401 mm	496 x 797 x 492 mm	496 x 797 x 492 mm
IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34
65 dB	65 dB	65 dB	75 dB	75 dB
44 kg	50 kg	52 kg	83 kg***	86 kg***
<b>NSYCU1K5R</b>	<b>NSYCU2KR</b>	<b>NSYCU2K3P4R</b>	<b>NSYCU3K3P4R</b>	<b>NSYCU4K3P4R</b>
<b>NSYCUX1K5R</b>	<b>NSYCUX2KR</b>	<b>NSYCUX2K3P4R</b>	<b>NSYCUX3K3P4R</b>	<b>NSYCUX4K3P4R</b>
<b>NSYCU1K5RUL</b>	-	<b>NSYCU2K3P4RUL</b>	<b>NSYCU3K3P4RUL</b>	<b>NSYCU4K3P4RUL</b>

# Thermal management system

## Characteristics

### Outdoor Heavy Duty cooling units



Characteristics	Side-mounting models		
	<ul style="list-style-type: none"> <li>■ Respect for the environment by using environmentally friendly gas R134a (HFC).</li> <li>■ Mechanical thermostats in all models.</li> <li>■ Eyebolts included.</li> <li>■ The external filter, not included as standard. The metallic filter is strongly recommended.</li> <li>■ Metallic canopy as standard.</li> <li>■ Anti-corrosive protection (class C3H).</li> <li>■ Inside components, including the condenser, coated with anti-corrosive protection.</li> </ul>		
Material	RAL 7035 grey painted zinc-coated steel		
Certifications and declarations	<ul style="list-style-type: none"> <li>■ CE declaration</li> <li>■ EAC</li> </ul>		
Installation	Indoor or outdoor		
<b>Cooling characteristics</b>			
Cooling power L35-L35 according to EN 14511	380 W (1297 Btu/h)	640 W (2184 Btu/h)	820 W (2798 Btu/h)
Cooling power L35-L50 according to EN 14511	240 W (819 Btu/h)	470 W (1604 Btu/h)	680 W (2320 Btu/h)
Air flow of the internal circuit (enclosure)	280 m³/h	330 m³/h	330 m³/h
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	570 m³/h
Thermostat type	Mechanic	Mechanic	Mechanic
Temperature range internal circuit (enclosure)	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C
Maximum outside temperature	+55°C	+55°C	+55°C
Temperature range external circuit (ambient)	-20 ... +55°C	-20 ... +55°C	-20 ... +55°C
Type of cooling gas	R134a	R134a	R134a
Cooling gas weight	0.16 kg	0.26 kg	0.28 kg
Maximum pressure cooling circuit	26 bar	25 bar	25 bar
External filter	Optional, see metallic filter on page 555	Optional, see metallic filter on page 555	Optional, see metallic filter on page 555
<b>Electric characteristics</b>			
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Starting / Rated Intensity	6.0 A / 1.6 A	8.1 A / 2.1 A	10.8 A / 2.6 A
Power consumption absorbed L35-L35 according to EN 14511	280 W	400 W	440 W
Power consumption absorbed L35-L50 according to EN 14511	330 W	470 W	490 W
Energy efficiency ratio (EER) L35-L35	1.4	1.6	1.9
Thermal protection recommended (fuse)	T4 A	T6 A	T6 A
<b>Physical characteristics</b>			
External dimensions (H x W x D)	573 x 300 x 205 mm	718 x 331 x 235 mm	875 x 363 x 239 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	60 dB	65 dB	65 dB
Weight of unit	17 kg	21 kg	27 kg
<b>References</b>			
	<b>NSYCUHD400</b>	<b>NSYCUHD600</b>	<b>NSYCUHD800</b>

# Thermal management system

## Characteristics

PB50280-17



PB50287-19



	1000 W (3412 Btu/h)	1000 W (3412 Btu/h)	1600 W (5459 Btu/h)	1600 W (5459 Btu/h)	2000 W (6824 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)
	790 W (2696 Btu/h)	790 W (2696 Btu/h)	1230 W (4197 Btu/h)	1230 W (4197 Btu/h)	1510 W (5152 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)
	330 m³/h	330 m³/h	570 m³/h	570 m³/h	860 m³/h	1450 m³/h	1450 m³/h
	570 m³/h	570 m³/h	1050 m³/h	1050 m³/h	1050 m³/h	1450 m³/h	1450 m³/h
	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic
	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C
	+55°C	+55°C	+55°C	+55°C	+55°C	+55°C	+55°C
	-20 ... +55°C	-20 ... +50°C	-20 ... +55°C	-20 ... +50°C	-20 ... +55°C	-20 ... +50°C	-20 ... +50°C
	R134a	R134a	R134a	R134a	R134a	R134a	R134a
	0.27 kg	0.27 kg	0.46 kg	0.46 kg	0.65 kg	0.84 kg	1.14 kg
	25 bar	25 bar	25 bar	25 bar	25 bar	25 bar	25 bar
	Optional, see metallic filter on page 555	Optional, see metallic filter on page 555	Optional, see metallic filter on page 555	Optional, see metallic filter on page 555	Optional, see metallic filter on page 555	Optional, see metallic filter on page 555	Optional, see metallic filter on page 555
	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz
	10.5 A / 3 A	8 A / 2 A	18 A / 5.3 A	11 A / 2.9 A	10 A / 2.5 A	14 A / 2.6 A	18 A / 3.6 A
	570 W	590 W	820 W	840 W	970 W	1220 W	1780 W
	650 W	670 W	940 W	960 W	1150 W	1440 W	2050 W
	1.8	1.7	2.0	1.9	2.1	2.4	2.2
	T6 A	T4 A	T10 A	T6 A	T6 A	T6 A	T8 A
	895 x 363 x 239 mm	895 x 363 x 239 (+58) mm	1009 x 415 x 261 mm	1009 x 415 x 261 mm	1009 x 415 x 261 mm	1416 x 512 x 365 mm	1416 x 512 x 365 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	65 dB	65 dB	65 dB	65 dB	65 dB	70 dB	70 dB
	28 kg	29 kg	40 kg	42 kg	54 kg	84 kg	85 kg
	<b>NSYCUHD1K</b>	<b>NSYCUHD1K2P4</b>	<b>NSYCUHD1K6</b>	<b>NSYCUHD1K62P4</b>	<b>NSYCUHD2K3P4</b>	<b>NSYCUHD3K3P4</b>	<b>NSYCUHD4K3P4</b>

# Thermal management system

## Characteristics

### Slim cooling units



Characteristics	Side-mounting models			
	<ul style="list-style-type: none"> <li>■ Respect for the environment by using environmentally friendly gas R134a (HFC).</li> <li>■ Electronical thermostat included.</li> <li>■ 3 mounting positions (surface, half-flush and flush).</li> <li>■ Alarm Signal for contact door.</li> <li>■ Eyebolts included.</li> </ul>			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	<ul style="list-style-type: none"> <li>■ CE declaration</li> <li>■ UL</li> <li>■ EAC</li> </ul>			
Installation	<ul style="list-style-type: none"> <li>■ Indoor</li> <li>■ There is one unique cut-out for all mounting positions and all slim models</li> </ul>			
<b>Cooling characteristics</b>				
Cooling power L35-L35 according to EN 14511	1100 W (3753 Btu/h)	1100 W (3753 Btu/h)	1500 W (5118 Btu/h)	1500 W (5118 Btu/h)
Cooling power L35-L50 according to EN 14511	860 W (2934 Btu/h)	860 W (2934 Btu/h)	1150 W (3924 Btu/h)	1150 W (3924 Btu/h)
Air flow of the internal circuit (enclosure)	860 m <sup>3</sup> /h	860 m <sup>3</sup> /h	860 m <sup>3</sup> /h	860 m <sup>3</sup> /h
Air flow of the external circuit (ambient)	860 m <sup>3</sup> /h	860 m <sup>3</sup> /h	860 m <sup>3</sup> /h	860 m <sup>3</sup> /h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
Maximum outside temperature	+50°C	+50°C	+50°C	+50°C
Temperature range external circuit (ambient)	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C
Type of cooling gas	R134a	R134a	R134a	R134a
Cooling gas weight	0.5 kg	0.5 kg	0.46 kg	0.46 kg
Maximum pressure cooling circuit	28 bar	28 bar	28 bar	28 bar
External circuit filter	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555
<b>Electric characteristics</b>				
Input voltage	1 x 230 V / 50-60 Hz*	2 x 400-460 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	2 x 400-460 V / 50-60 Hz*
Starting / Rated Intensity	11 A / 4.8 A	8.5 A / 2.7 A	18 A / 5.7 A	11 A / 3.2 A
Power consumption absorbed L35-L35 according to EN 14511	660 W	660 W	840 W	840 W
Power consumption absorbed L35-L50 according to EN 14511	790 W	790 W	970 W	970 W
Energy efficiency ratio (EER) L35-L35	1.7	1.7	1.8	1.8
Thermal protection recommended (fuse)	T6 A	T4 A	T10 A	T6 A
<b>Physical characteristics</b>				
External dimensions (H x W x D)	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 195 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	64 dB	64 dB	66 dB	66 dB
Weight of unit	50 kg	52 kg	55 kg	57 kg
<b>References</b>				
Steel UL	NSYCUS1K1UL	NSYCUS1K12P4UL	NSYCUS1K5UL	NSYCUS1K52P4UL
Stainless steel UL	NSYCUSX1K1UL	NSYCUSX1K12P4UL	NSYCUSX1K5UL	NSYCUSX1K52P4UL

\* Certification UL only 60 Hz.

# Thermal management system

## Characteristics



PB002632-17

	2000 W (6824 Btu/h)	2000 W (6824 Btu/h)	2500 W (8530 Btu/h)	2500 W (8530 Btu/h)	3200 W (10919 Btu/h)	3200 W (10919 Btu/h)
	1550 W (5289 Btu/h)	1550 W (5289 Btu/h)	1850 W (6312 Btu/h)	1850 W (6312 Btu/h)	2500 W (8530 Btu/h)	2500 W (8530 Btu/h)
	860 m³/h	860 m³/h	1450 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
	1050 m³/h	1050 m³/h	1450 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
	+50°C	+50°C	+50°C	+50°C	+50°C	+50°C
	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C
	R134a	R134a	R134a	R134a	R134a	R134a
	0.51 kg	0.59 kg	1.2 kg	1.2 kg	0.85 kg	1.25 kg
	28 bar	28 bar	28 bar	28 bar	28 bar	28 bar
	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555	Optional, see page 555
	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*
	24 A / 6.5 A	10 A / 2.1 A	35 A / 10.5 A	14 A / 2.9 A	37 A / 10.5 A	18 A / 3.1 A
	1020 W	1060 W	1340 W	1270 W	1720 W	1650 W
	1160 W	1270 W	1580 W	1510 W	2000 W	1980 W
	2.0	1.9	1.9	2.0	1.9	1.9
	T10 A	T6 A	T16 A	T6 A	T16 A	T6 A
	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	67 dB	67 dB	69 dB	69 dB	69 dB	69 dB
	63 kg	65 kg	80 kg	82 kg	81 kg	83 kg
	<b>NSYCUS2KUL</b>	<b>NSYCUS2K3P4UL</b>	<b>NSYCUS2K5UL</b>	<b>NSYCUS2K53P4UL</b>	<b>NSYCUS3K2UL</b>	<b>NSYCUS3K23P4UL</b>
	<b>NSYCUSX2KUL</b>	<b>NSYCUSX2K3P4UL</b>	<b>NSYCUSX2K5UL</b>	<b>NSYCUSX2K53P4UL</b>	<b>NSYCUSX3K2UL</b>	<b>NSYCUSX3K23P4UL</b>

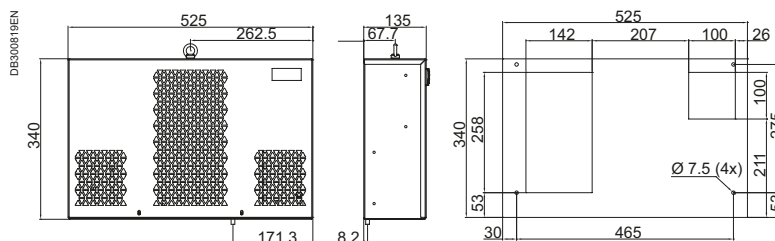
# Thermal management system

## Dimensions

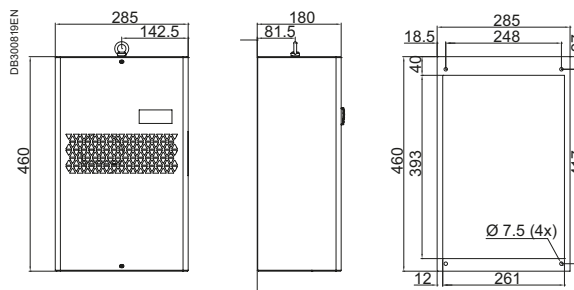
### Cooling units

#### Side-mounting models: dimensions and cut-outs

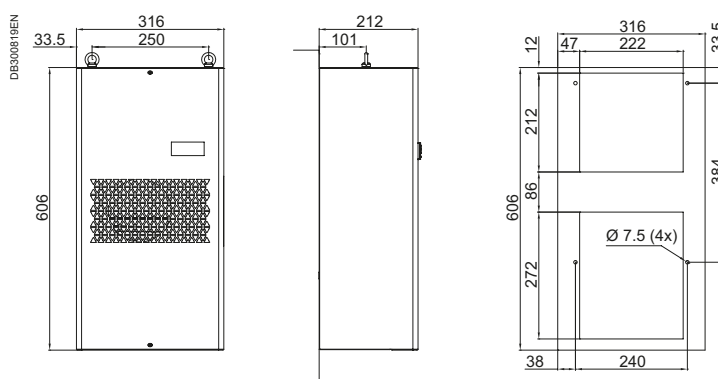
##### NSYCU300H



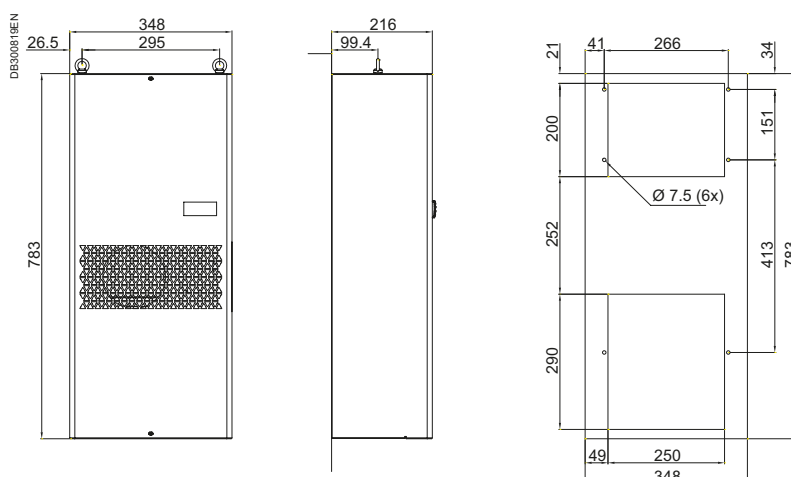
##### NSYCU•400•



##### NSYCU•600•



##### NSYCU•800• - NSYCU•1K•

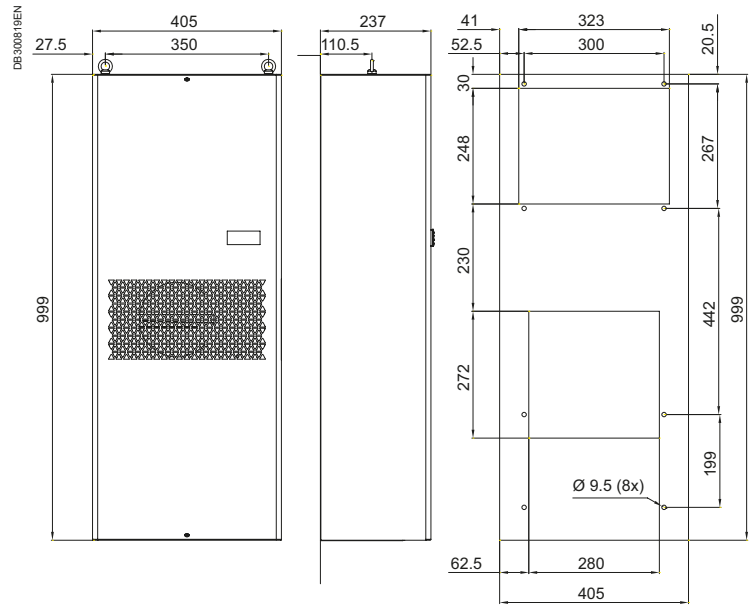


Units of measurement are mm.

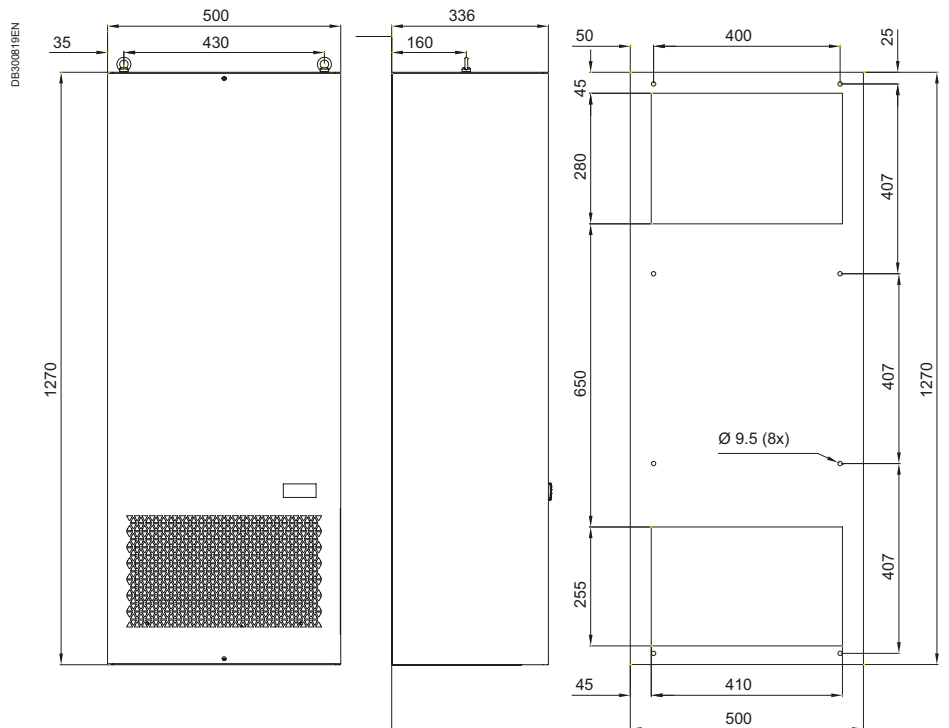
# Thermal management system

## Dimensions

### NSYCU•1K2•• - NSYCU•1K6•• - NSYCU•2K••



### NSYCU•3K3P4•• - NSYCU•4K3P4••



Units of measurement are mm.

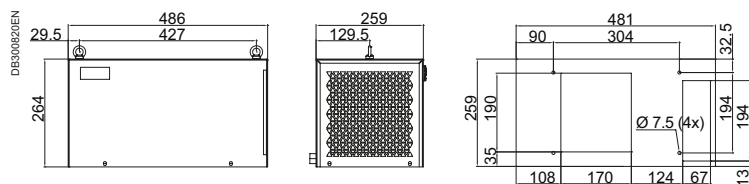
# Thermal management system

## Dimensions

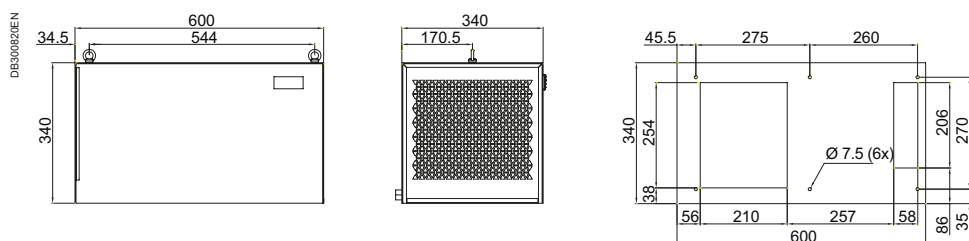
### Cooling units

#### Top-mounting models: dimensions and cut-outs

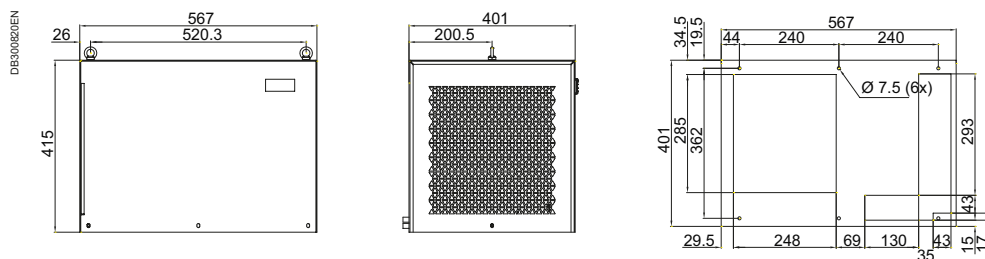
##### NSYCU••400R••



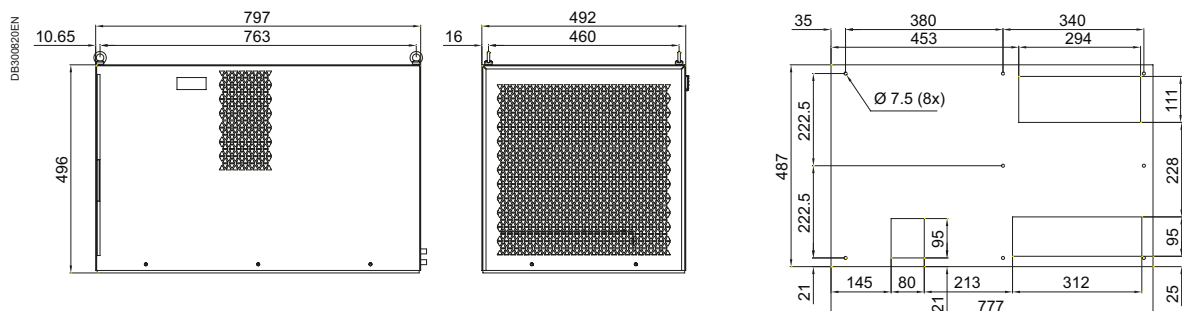
##### NSYCU••800R••



##### NSYCU••1K2R•• - NSYCU••1K5R•• - NSYCU••2K••R••



##### NSYCU••3K3P4R•• - NSYCU••4K3P4R••



Units of measurement are mm.

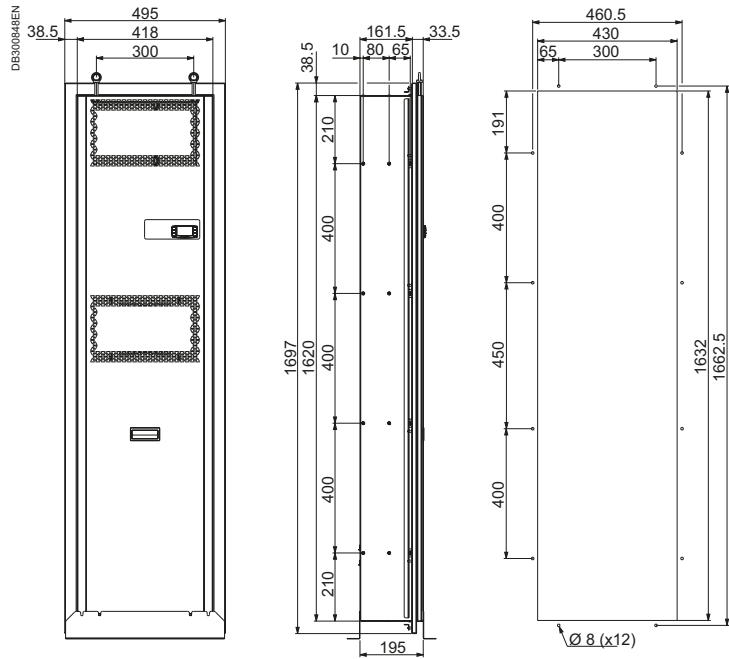


# Thermal management system

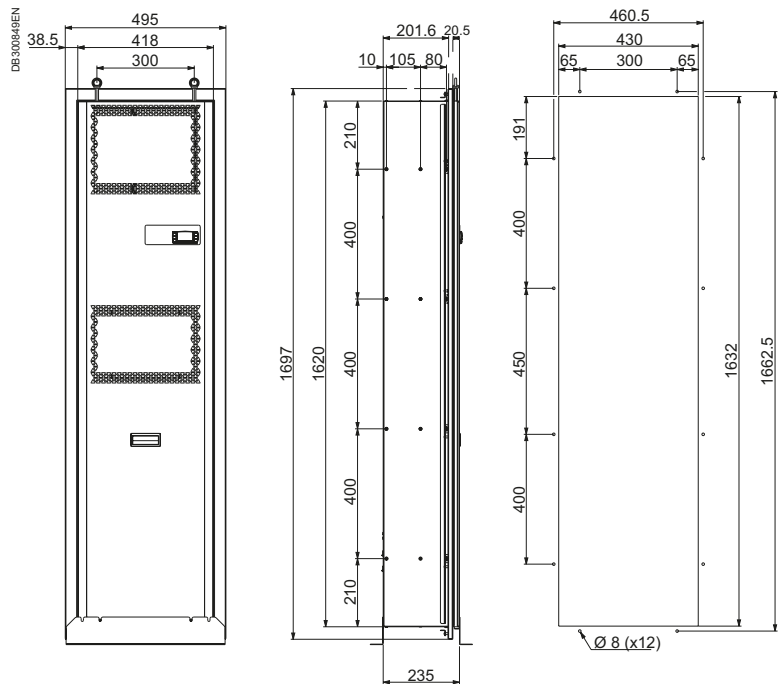
## Dimensions

### Slim cooling units

#### NSYCUS•1K1• - NSYCUS•1K5• - NSYCUS•2K•



#### NSYCUS•2K5• - NSYCUS•3K2•



Units of measurement are mm.

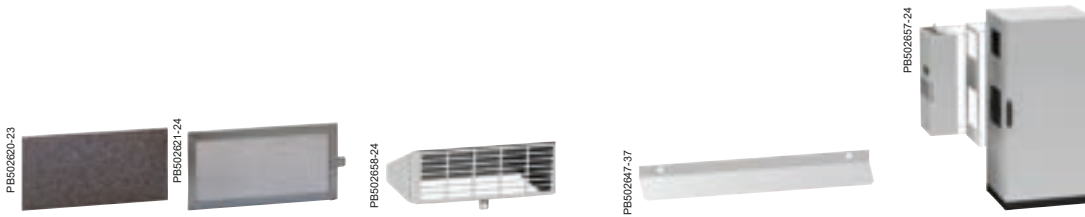
# Thermal management system

## Accessories



Characteristics	Cooling units				
	IEC			UL	
	Steel	Stainless steel	Outdoor	Steel	Stainless steel
Material					
Colour					
Installation					
Supply					
<b>References</b>					
<b>Cooling units</b>					
Side-mounting models	NSYCU300H	-	-	-	-
	NSYCU400	NSYCUX400	NSYCUHD400	NSYCU400UL	-
	NSYCU600	NSYCUX600	NSYCUHD600	NSYCU600UL	NSYCUX600UL
	NSYCU800	NSYCUX800	NSYCUHD800	NSYCU800UL	NSYCUX800UL
	NSYCU1K	NSYCUX1K	NSYCUHD1K	NSYCU1KUL	NSYCUX1KUL
	NSYCU1K2P4	NSYCUX1K2P4	NSYCUHD1K2P4	NSYCU1K2P4UL	NSYCUX1K2P4UL
	NSYCU1K2	NSYCUX1K2	-	NSYCU1K2UL	NSYCUX1K2UL
	NSYCU1K22P4	NSYCUX1K22P4	-	-	-
	NSYCU1K6	NSYCUX1K6	NSYCUHD1K6	NSYCU1K6UL	NSYCUX1K6UL
	NSYCU1K62P4	NSYCUX1K62P4	NSYCUHD1K62P4	NSYCU1K62P4UL	NSYCUX1K62P4UL
	NSYCU2K	NSYCUX2K	-	NSYCU2KUL	NSYCUX2KUL
	NSYCU2K3P4	NSYCUX2K3P4	NSYCUHD2K3P4	NSYCU2K3P4UL	NSYCUX2K3P4UL
	NSYCU3K3P4	NSYCUX3K3P4	NSYCUHD3K3P4	NSYCU3K3P4UL	NSYCUX3K3P4UL
	NSYCU4K3P4	NSYCUX4K3P4	NSYCUHD4K3P4	NSYCU4K3P4UL	NSYCUX4K3P4UL
Floor-standing models	NSYCU6K3P4	-	-	-	-
	NSYCU6K3P460	-	-	-	-
	NSYCU8K3P4	-	-	-	-
	NSYCU8K3P460	-	-	-	-
	NSYCU10K3P4	-	-	-	-
	NSYCU10K3P460	-	-	-	-
	NSYCU15K3P4	-	-	-	-
	NSYCU15K3P460	-	-	-	-
Roof-mounting model	NSYCU400R	NSYCUX400R	-	NSYCU400RUL	-
	NSYCU800R	NSYCUX800R	-	NSYCU800RUL	-
	NSYCU1K2R	NSYCUX1K2R	-	NSYCU1K2RUL	-
	NSYCU1K5R	NSYCUX1K5R	-	NSYCU1K5RUL	-
	NSYCU2K3P4R	NSYCUX2K3P4R	-	NSYCU2K3P4RUL	-
	NSYCU2KR	NSYCUX2KR	-	-	-
	NSYCU3K3P4R	NSYCUX3K3P4R	-	NSYCU3K3P4RUL	-
	NSYCU4K3P4R	NSYCUX4K3P4R	-	NSYCU4K3P4RUL	-
Slim model	-	-	-	NSYCUS1K1UL	NSYCUSX1K1UL
	-	-	-	NSYCUS1K12P4UL	NSYCUSX1K12P4UL
	-	-	-	NSYCUS1K5UL	NSYCUSX1K5UL
	-	-	-	NSYCUS1K52P4UL	NSYCUSX1K52P4UL
	-	-	-	NSYCUS2KUL	NSYCUSX2KUL
	-	-	-	NSYCUS2K3P4UL	NSYCUSX2K3P4UL
	-	-	-	NSYCUS2K5UL	NSYCUSX2K5UL
	-	-	-	NSYCUS2K53P4UL	NSYCUSX2K53P4UL
	-	-	-	NSYCUS3K2UL	NSYCUSX3K2UL
	-	-	-	NSYCUS3K23P4UL	NSYCUSX3K23P4UL

# Thermal management system Accessories



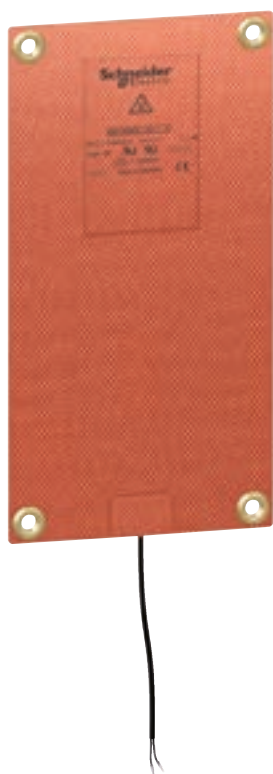
Filters		Canopy for ClimaSys CU		Internal deflector	Retrofit panel	
Plastic filter not recommended for outdoor models.	Metalic filter recommended for outdoor models.	This canopy is highly recommended for harsh indoor environments to protect from ingress of dust.		Deflects the air inside the enclosure.	Panel that enable to mount a new ClimaSys CU units by replacement of old Schneider Electric cooling systems.	
Polyurethane	Micro-stretched aluminium	Painted zinc coated		Zinc coated	Metal painted	
Black	-	RAL 7035 grey		RAL 7035 grey	RAL 7035 grey	
Indoor	Indoor or outdoor	Indoor		Indoor or outdoor	Indoor	
5 units	1 unit	1 unit		1 unit with fixing elements	1 unit	
						Old Schneider Electric cooling system
-	-	-	-	-	-	-
NSYCUF400	NSYCUFX400	NSYCUCN400HD	NSYCU400	NSYCURFT400	NSYCU240W230VL	NSYCU370W230VL
NSYCUF600	NSYCUFX600	NSYCUCN600HD	NSYCU600	-	-	-
NSYCUF800T1K	NSYCUFX800T1K	NSYCUCN800T1KHD	NSYCU800T1K	NSYCURFT800T1K	NSYCU760W230VL	NSYCU760W230VL
NSYCUF800T1K	NSYCUFX800T1K	NSYCUCN800T1KHD	NSYCU800T1K	NSYCURFT800T1K	NSYCU1100W230L	NSYCU1100W230L
NSYCUF800T1K	NSYCUFX800T1K	NSYCUCN800T1KHD	NSYCU1K2T2K	NSYCURFT800T1K	NSYCU1K	NSYCU1K
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	-	-	-
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	-	-	-
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	NSYCURFT1K6T2K	NSYCUE1400W230L	NSYCU1650W230VL
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	NSYCURFT1K6T2K	NSYCUE1400W400L	NSYCU1650W230VL
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	-	-	-
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	NSYCURFT1K6T2K	NSYCUE1400W400L	NSYCU1650W230VL
NSYCUF3KT4K	NSYCUFX3KT4K	NSYCUCN3KT4KHD	NSYCU3KT4K	NSYCURFT3KT4K	NSYCU1800W400VL	NSYCU1800W400L
NSYCUF3KT4K	NSYCUFX3KT4K	NSYCUCN3KT4KHD	NSYCU3KT4K	NSYCURFT3KT4K	NSYCU2500W400VL	NSYCU2500W400VL
NSYCUF6K	NSYCUFX6K	-	-	NSYCURFT3KT4K	NSYCU4000W400VL	NSYCU4000W400VL
NSYCUF6K	NSYCUFX6K	-	-	-	-	-
NSYCUF8KT10K	NSYCUFX8KT10K	-	-	-	-	-
NSYCUF8KT10K	NSYCUFX8KT10K	-	-	-	-	-
NSYCUF8KT10K	NSYCUFX8KT10K	-	-	-	-	-
NSYCUF8KT10K	NSYCUFX8KT10K	-	-	-	-	-
NSYCUF15K	NSYCUFX15K	-	-	-	-	-
NSYCUF15K	NSYCUFX15K	-	-	-	-	-
NSYCUF400R	NSYCUFX400R	-	-	-	-	-
NSYCUF800R	NSYCUFX800R	-	-	NSYCURFT800R	NSYCU760W230VR	NSYCU760W230VR
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	NSYCURFT1K2T2K	NSYCU1050W230VR	NSYCU1050W230VR
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	NSYCURFT1K2T2K	NSYCU1400W230R	NSYCU1400W230R
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	NSYCURFT1K2T2K	NSYCU1460W230VR	NSYCU1460W230VR
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	NSYCURFT1K2T2K	NSYCU1650W230VR	NSYCU1650W230VR
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	NSYCURFT1K2T2K	NSYCUE1800W400R	NSYCU1800W400R
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	NSYCURFT1K2T2K	NSYCU2000W400VR	NSYCU2000W400VR
NSYCUF3KT4KR	NSYCUFX3KT4KR	-	-	NSYCURFT3K	NSYCU2450W400VR	NSYCU2450W400VR
NSYCUF3KT4KR	NSYCUFX3KT4KR	-	-	NSYCURFT3K	NSYCU3100W400VR	NSYCU3100W400VR
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	NSYCU1100W230S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	NSYCU1100W400S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	NSYCU1500W230S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	NSYCU1500W400S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	NSYCU2200W230S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	NSYCU2200W400S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	NSYCU2700W230S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	NSYCU2700W400S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	NSYCU2700W230S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	NSYCU2700W400S

# Thermal management system

## Introduction

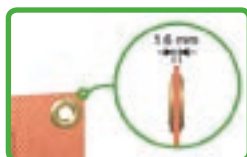
➤ Ultra thin resistance heaters have been designed to resolve condensation problems in the most complex installations. Is your enclosure short of space? Does your mounting plate make it impossible to install a conventional heater? Do you not want to take out the equipment? Discover the benefits of this new offer and its numerous mounting solutions.

PB502042-40



### Ultra thin resistance heaters

PB502437-32



#### Small size (thickness = 1.6 mm)

The space saving available for the equipment compared with a conventional resistor can be up to 30%.



#### Heat and safety

The heat is distributed over the whole surface and does not exceed 70°C. This temperature allows devices next to the heater to be handled safely.

PB502046-22



#### Multiple options for fixing

Innovative quick-fixing system using Velcro pads (no need for a tool!) or with basic fixing accessories (screw + spacer). These systems make it easy to move the heater if necessary.

PB502522-16



#### Numerous positions for installation

These heaters are so slim and flexible they can be installed in a variety of positions:

- Vertically on side panels
- On the mounting plate.



#### Energy efficiency

Ultra thin resistance heaters are ohmic: they therefore have a low starting current.

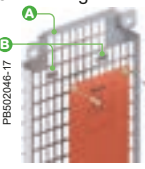
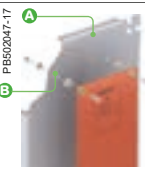
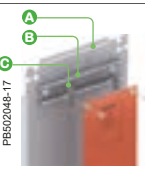
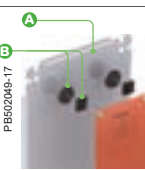
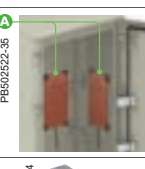
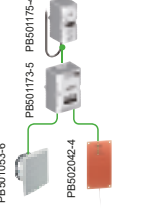



#### No interference emissions

These resistors can be installed near electronic equipment to guarantee optimum heat.

# Thermal management system

## Characteristics and selection guide

Ultra thin resistance heaters	
Description	Flexible, ultra thin resistance heaters to be installed inside the enclosure
Material	Silicon reinforced with fibreglass
Colour	Red (heaters), black (wires)
Certifications	VDE, LR
Installation	<p>5 mounting solutions :</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p><b>1 - On a Telequick mounting plate</b>  <b>A:</b> Telequick mounting plate, ref. NSYMR●●●●  <b>B:</b> Telequick nuts, ref. AF1EA●, supplied with the mounting kit</p> </div> <div style="width: 45%;">  <p><b>2 - On plain or micro-perforated mounting plate with fixing hardware</b>  <b>A:</b> Mounting plate, ref. NSYMM●●●●  <b>B:</b> Fixing hardware included in the mounting kit</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p><b>3 - On DIN rail</b>  <b>A:</b> Mounting plate, ref. NSYMM●●●●  <b>B:</b> Symmetrical DIN rail, ref. NSYSDR●●●●  <b>C:</b> Clip-on nuts, ref. AF1CG●, supplied with the mounting kit</p> </div> <div style="width: 45%;">  <p><b>4 - On plain mounting plate with self-adhesive Velcro pads</b>  <b>A:</b> Mounting plate, ref. NSYMM●●●●  <b>B:</b> Self-adhesive Velcro pad and plastic fixings supplied with the mounting kit</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p><b>5 - On wall with self-adhesive Velcro pads</b>  <b>A:</b> Self-adhesive Velcro pads and plastic fixings supplied in the mounting kit</p> </div> </div>
Other characteristics	<p>Electrical circuit diagram</p> 
Supply	 <ul style="list-style-type: none"> <li>■ 6 self-adhesive Velcro pads</li> <li>■ 6 plastic fixings</li> <li>■ 4 Telequick nuts</li> <li>■ 4 clip-on nuts</li> <li>■ Fixing hardware</li> </ul>

### Ultra thin resistance heaters\*

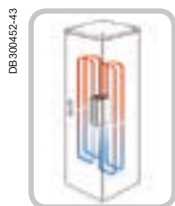
Power (W)	Voltage (V)	Inrush current (A)	Height (mm)	Width (mm)	Depth (mm)	References
10	120	0.08	110	140	1.6	NSYCRS10W120V
	240	0.04	110	140	1.6	NSYCRS10W240V
25	120	0.21	110	230	1.6	NSYCRS25W120V
	240	0.10	110	230	2.6	NSYCRS25W240V
50	120	0.42	200	320	1.6	NSYCRS50W120V
	240	0.21	200	320	2.6	NSYCRS50W240V
100	120	0.83	260	440	1.6	NSYCRS100W120V
	240	0.42	260	440	1.6	NSYCRS100W240V
200	120	1.67	380	650	1.6	NSYCRS200W120V
	240	0.83	380	650	1.6	NSYCRS200W240V

\* Ultra thin resistance heaters can be manufactured with different dimensions and power ratings than those indicated above. Please contact us.

# Thermal management system

## Introduction

➤ The resistance heaters prevent the formation of condensation and guarantee the ideal temperature for the correct operation of the electronic components in the enclosure.



### Insulated PTC heaters

PB501027-20



PB501026-16



#### Large range of power levels

- 2 versions: by natural convection and with fan.
- AC or DC power supply.
- 7 power levels, from 10 W to 550 W.

PB501138-18



#### Innovating design

PB501140-19



PB501139-24



#### Easy installation and connection

- Reduced dimensions.
- Quick electric connection by terminal board.
- No maintenance required.
- Direct clipping onto a 35 mm DIN rail.

PB501026-14



PB501141-19



#### Safety

- The protection prevents direct contact with the aluminium radiator.
- Electric protection device with terminal block cover.
- Equipped with a PTC-type heater.
- Surface temperature lower than 70°C.

#### High thermal efficiency

- The configuration of the aluminium profile produces a "chimney" effect: high natural convection.
- Low power consumption thanks to self-control of the PTC-type heater.

PB501142-17



#### Models with fan

- The heaters equipped with a fan ensure circulation of the air and a uniform temperature inside the enclosure.
- High-flow, silent fan.

DB123816-12



PB501143



#### Certifications

- CE marking.
- Range compliant with UL and VDE.

# Thermal management system

## Introduction

PB501146-67



### Aluminium PTC heaters

PB501146-28



#### Resistance heaters equipped with a PTC-type sensor

The resistance heaters for electrical and electronic enclosures are equipped with PTC-type heating devices (Positive Temperature Coefficient).

Thanks to these heaters:

- The surface temperature stabilises at 75°C when the ambient temperature is -5°C.
- Power consumption is reduced.

#### Improved convection

The design of the profile of the resistance heaters produces a "chimney" effect, leading to increased natural convection and maintaining an even temperature inside the enclosure.

PB501147-111



#### Quick fixing

The resistance heaters are fixed by means of fixing clips to a 35 mm DIN rail.

PB501146-21



#### Connection cables

The 10 and 20 W heaters are equipped with a 2 x 0.75 x 300 mm power cord.

PB501149-28



#### Connection terminal boards

Heaters with a power of more than 20 W are equipped with a connection terminal board.

#### Large range of power levels

8 power levels, from 10 W to 400 W.

PB501025-28



#### Models with fan

Models of 250 to 400 W with fan.

# Thermal management system

## Characteristics

### Insulated PTC resistance heaters

#### Characteristics

Material

Conditions of use

Ingress protection rating (according to IEC 60529)

Certifications

Heating power at 0°C	Voltage	Surface temperature	Electric connection	Mounting
10 W	12-24 V DC	<70°C, except for the top protection grille	2 poles, 2.5 mm <sup>2</sup>	Quick by clip on a 35-mm DIN rail
10 W	110-250 V AC			
20 W	12-24 V DC			
20 W	110-250 V AC			
55 W	12-24 V DC	<70°C, except for the top protection grille	4 poles, 2.5 mm <sup>2</sup>	By clip on a 35-mm DIN rail
55 W	110-250 V AC			
55 W	270-420 V AC			
100 W	12-24 V DC			
100 W	110-250 V AC			
100 W	270-420 V AC			
147 W	12-24 V DC			
147 W	110-250 V AC			
177 W	230 V AC / 50-60 HZ	Max. 50°C in the enclosure, 100°C on the top protection grille, (for an ambient temperature of 20°C / 68°F)	2 poles, 2.5 mm <sup>2</sup>	By clip on a 35-mm DIN rail



# Thermal management system

## Characteristics



Insulated PTC heater	Insulated ventilated PTC heaters
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- Compact resistance heater preventing the formation of condensation or frost.
- Designed to ensure good natural convection and high thermal efficiency.

**Extruded aluminium body**

- The heaters must be installed with a thermal controller (see selection table on pages 564 and 565) to control the temperature or the humidity inside the enclosure
- The enclosure must be sealed to prevent the entry of air from the outside
- An electrical protection device must be installed on the supply side of the unit
- **Operating position:** vertical
- **Operating temperature:** -40...+70°C; -10...+158°F

IP20

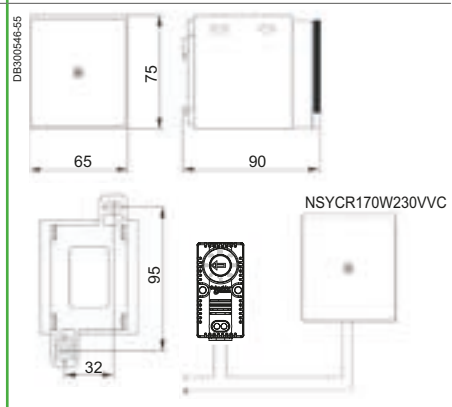
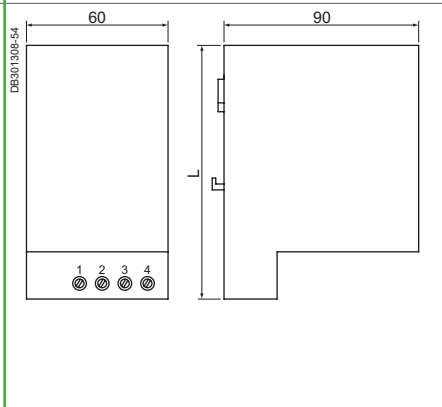
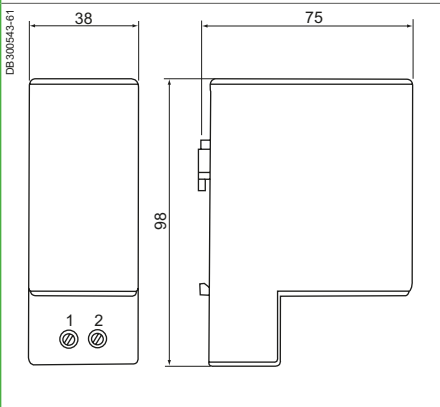
VDE and NSYCR\*\*\*U2C models UL certified

Cover: UL 94 V-0 plastic  
Class II (double insulated)

**References**

NSYCR10WU1C	-	-
NSYCR10WU2C	-	-
NSYCR20WU1C	-	-
NSYCR20WU2C	-	-
-	NSYCR50WU1C	-
-	NSYCR50WU2C	-
-	NSYCR50WU3C	-
-	NSYCR100WU1C	-
-	NSYCR100WU2C	-
-	NSYCR100WU3C	-
-	NSYCR150WU1C	-
-	NSYCR150WU2C	-

-	-	NSYCR170W230VVC
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# Thermal management system

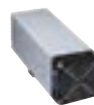
## Characteristics, selection guide

### Aluminium PTC heaters

PB501146-23



PB501026-21



PB501145-48



NSYCRS200W230V

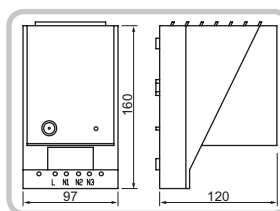
Characteristics		Aluminium PTC heaters	Aluminium PTC heater with fan	Resistive heaters
Conditions of use		<ul style="list-style-type: none"> <li>Extruded aluminium body.</li> <li>Surface temperature limited to 75°C when the ambient temperature is -5°C.</li> <li>Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.</li> </ul>		
Power (W)		References		
Voltage (V)		References		
<b>Power cord</b>				
10	12-24 DC	NSYCR10WU1	-	-
	110-250 AC	NSYCR10WU2	-	-
20	12-24 DC	NSYCR20WU1	-	-
	110-250 AC	NSYCR20WU2	-	-
<b>Terminal block</b>				
20	270-420 AC	NSYCR20WU3	-	-
55	12-24 DC	NSYCR55WU1	-	-
	110-250 AC	NSYCR55WU2	-	-
	270-420 AC	NSYCR55WU3	-	-
90	12-24 DC	NSYCR100WU1	-	-
	110-250 AC	NSYCR100WU2	-	-
	270-420 AC	NSYCR100WU3	-	-
150	12-24 DC	NSYCR150WU1	-	-
	110-250 AC	NSYCR150WU2	-	-
	270-420 AC	NSYCR150WU3	-	-
250	115 AC	-	NSYCR250W115VV	-
	230 AC	-	NSYCR250W230VV	-
400	115 AC	-	NSYCR400W115VV	-
	230 AC	-	NSYCR400W230VV	-
200	115 AC	-	-	NSYCRS200W115V
	230 AC	-	-	NSYCRS200W230V

### Thermofan

PB501154-12



NSYCRP1W230VTVC



Characteristics		Thermofan
Conditions of use		<ul style="list-style-type: none"> <li>Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure.</li> <li>Fixing by clip on a DIN rail.</li> <li>Thermostat adjustable from 0...+60°C.</li> <li>Visual operation indicator.</li> </ul>
Power (W)		References
Voltage (V)		References
<b>Terminal block</b>		
400/550	120 AC	NSYCRP1W120VTVC
	230 AC	NSYCRP1W230VTVC

### Fixing accessories

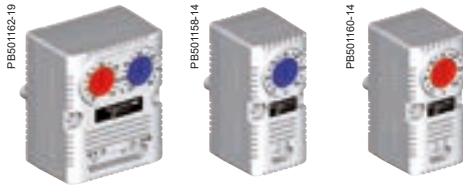
Description	Supply	References
	Set of 5 studs	NSYCRAF
	Set of 5 studs and DIN rail	NSYCRAFD

# Thermal management system

## Introduction

### Thermal control

#### > Mechanical thermostats



#### Mechanical and electronic thermostats

- Large range of temperature control.
- Small dimensions.
- Easily accessible terminals.

#### > Electronic thermostats



#### LED screen

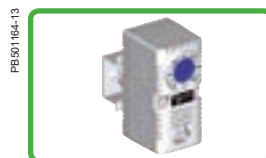
Screen visible even in the dark.



#### Operational temperature range

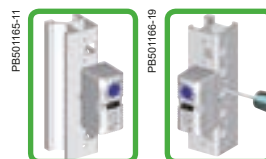
- For mechanical thermostats: 0°C ... +60°C
- For electronic thermostats: -40°C ... +80°C

### Mechanical and electronic thermostats

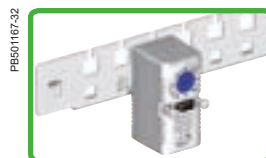


#### The quick-fixing systems

- On 35 mm DIN rail.



- On Spacial upright.



- On cross-rail.



- On mounting plate.



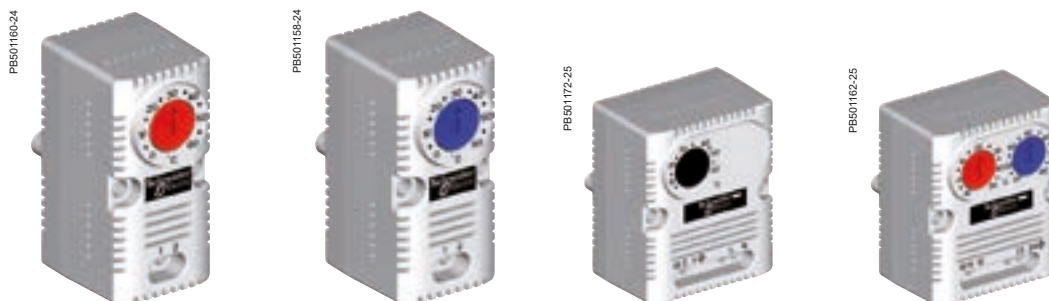
#### Certifications and declarations

- UL,
- CE.

# Thermal management system

## Characteristics, selection guide

### Mechanical thermostats



Characteristics	Thermostat	Thermostat	Thermostat	Double Thermostat				
	With NC contact	With NO contact	With NO/NC contact					
	<b>Thermostat with NC Contact:</b> ■ to control the stopping of a resistance heater when the temperature exceeds the displayed value. <b>Thermostat with NO Contact:</b> ■ to control the starting up of a fan when the temperature exceeds the displayed maximum value, ■ to control the temperature inside the enclosure by only starting up the fan when necessary, thus increasing the service life of the fan and reducing the clogging of the filter.							
Colour button	Red	Blue	Black	Red and blue				
Ingress protection rating according to IEC 60529	IP20	IP20	IP20	IP20				
Sensor element	Bimetal	Bimetal	Bimetal	Bimetal				
Contact	NC, forced rupture	NO, forced rupture	Inverse, forced rupture	NO / NC, forced rupture				
Contact resistance	< 10 mΩ	< 10 mΩ	< 10 mΩ	< 10 mΩ				
Service life	> 100,000 cycles	> 100,000 cycles	> 100,000 cycles	> 100,000 cycles				
Switching capacity	250 V AC; 10 A (resistive load) 120 V AC; 15 A (resistive load) 250 V AC/120 V AC 2 A (inductive load cos φ = 0.6) 30 W DC		250 V AC; 10 A (resistive load)	250 V AC; 10 A (resistive load) 120 V AC; 15 A (resistive load) 250 V AC/120 V AC 2 A (inductive load cos φ = 0.6) 30 W DC				
Max interrupting capacity with direct current	NC	NO	250 V AC 4 A (inductive load cos φ = 0.6) 30 W DC	NA				
Connection	Two 2.5 mm <sup>2</sup> terminals	Two 2.5 mm <sup>2</sup> terminals	Four 2.5 mm <sup>4</sup> terminals	Six 2.5 mm <sup>6</sup> terminals				
Mounting	By clip on 35 mm DIN rail	By clip on 35 mm DIN rail	By clip on 35 mm DIN rail	Clip on 35 mm DIN rail				
Enclosure	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey				
Dimensions	60 x 33 x 43 mm	60 x 33 x 43 mm	67 x 50 x 44 mm	60 x 33 x 43 mm				
Weight	40 g	40 g	100 g	40 g				
Mounting position	Indifferent	Indifferent	Indifferent	Indifferent				
Operating temperature	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)				
Hysteresis	7 K	7 K	7 K	7 K				
Temperature setting range	0...+60°C	0...+60°C	+5...+60°C	0...+60°C				
Display	°C    °F	°C    °F	°C    °F	°C    °F				
Max. command intensity	10 A 250 V		(NO) 5 A (NC) 10 A	(NO) 5 A (NC) 10 A				
<b>References</b>	<b>NSYCCOTHC</b>	<b>NSYCCOTHCF</b>	<b>NSYCCOTHO</b>	<b>NSYCCOTHOF</b>	<b>NSYCCOTH1</b>	<b>NSYCCOTHIF</b>	<b>NSYCCOTH2D</b>	<b>NSYCCOTHDF</b>
	<p>L N Load = resistance</p>	<p>L N Load = fan</p>	<p>L N Load (2): resistance Load (3): fan</p>					

### Electronic thermostats

PB502624



PB502623

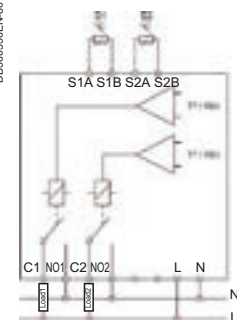


PB502513

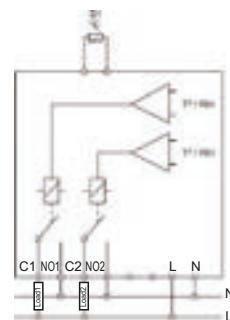


Characteristics	Electronic thermostat	Electronic hygrotherm	Electronic hygostat
	<b>With LED screen</b> Electronic temperature controller.	<b>With LED screen</b> Electronic temperature and humidity controller.	<b>With LED screen</b> Electronic humidity controller.
Ingress protection rating according to IEC 60529	IP20	IP20	IP20
Certification	UL / UR	UL / UR	UL / UR
Internal sensor element	Temperature sensor	Temperature sensor and humidity sensor	Humidity sensor
Contact	Free with zero potential	Free with zero potential	Free with zero potential
Connection	2 x 2.5 mm <sup>2</sup> (input voltage) + 2 relays (2 x 2.5 mm <sup>2</sup> + 2 x 2.5 mm <sup>2</sup> )	2 x 2.5 mm <sup>2</sup> (input voltage) + 2 relays (2 x 2.5 mm <sup>2</sup> + 2 x 2.5 mm <sup>2</sup> )	2 x 2.5 mm <sup>2</sup> (input voltage) + 1 relay (2 x 2.5 mm <sup>2</sup> )
Mounting	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate
Enclosure	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey
Operating temperature	-40°C...+80°C	-40°C...+80°C	-40°C...+80°C
Hysteresis	Programmed 2 K	Programmed 2 K and 3 %	3 %
Temperature setting range	-40°C...+80°C	-40°C...+80°C	-
Humidity setting range	-	20 %...80 %	20 %...80 %
Display	°C or °F	°C or °F or % RH	% RH
Max. command intensity	8 (5) A 230 V AC / 5 A 30 V DC	8 (5) A 230 V AC / 5 A 30 V DC	8 (5) A 230 V AC / 5 A 30 V DC
<b>Voltage (type of current)</b>	<b>References</b>		
9-30 V (AC/DC)	<b>NSYCCOTH30VID</b>	<b>NSYCCOHT30VID</b>	<b>NSYCCOHT30VID</b>
110-127 V (AC)	<b>NSYCCOTH120VID</b>	<b>NSYCCOHT120VID</b>	<b>NSYCCOHT120VID</b>
220-240 V (AC)	<b>NSYCCOTH230VID</b>	<b>NSYCCOHT230VID</b>	<b>NSYCCOHT230VID</b>

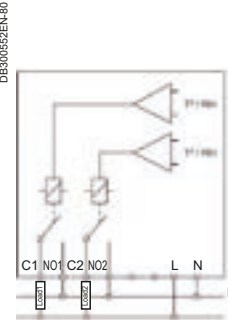
DB300551EN-80



DB300551EN-80



DB300552EN-80



PB501175-10



Characteristics	External temperature sensor (double insulation)
	<ul style="list-style-type: none"> <li>■ Sensor operation or reading range: -40°C...+150°C.</li> </ul> <p><b>Thermostat installation tips:</b> the thermostat should be installed at the top of the enclosure (the hottest place). See the various operating modes of each thermostat to choose the one that best meets your needs.</p> <p><b>Hygostat installation tips:</b> the hygostat should be installed at the bottom of the enclosure. 60% RH is the optimum value in the enclosure.</p>
Ingress protection rating according to IEC 60529	IP67
Fixing	On DIN rail, on Spacial SF profile, on VDI cross-rail, on mounting plate
<b>Length of cable supplied (m)</b>	
3	<b>NSYCCASTE</b>

# Thermal management system

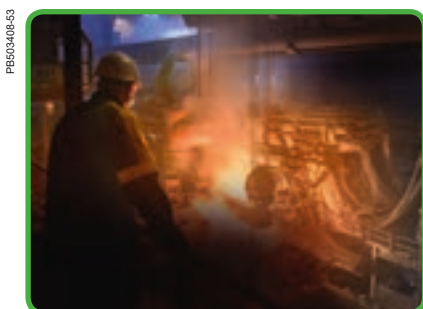
## Introduction



PF503400-70

### Thermal conditions: a hot topic for enclosures

Temperature, humidity, and dew point all affect the performance of your electrical and electronic enclosures. Problem is, unless these environments are sized properly, thermal conditions will compromise reliability, safety, and efficiency, as well as the lifespan of your panels. **The precise knowledge of the thermal conditions is therefore indispensable to choose the most appropriate thermal management solution.**



PF603408-53

### Threats to performance arise when:



Real environmental conditions are not known



Specifications are oversized



Excessive loads over-consume energy

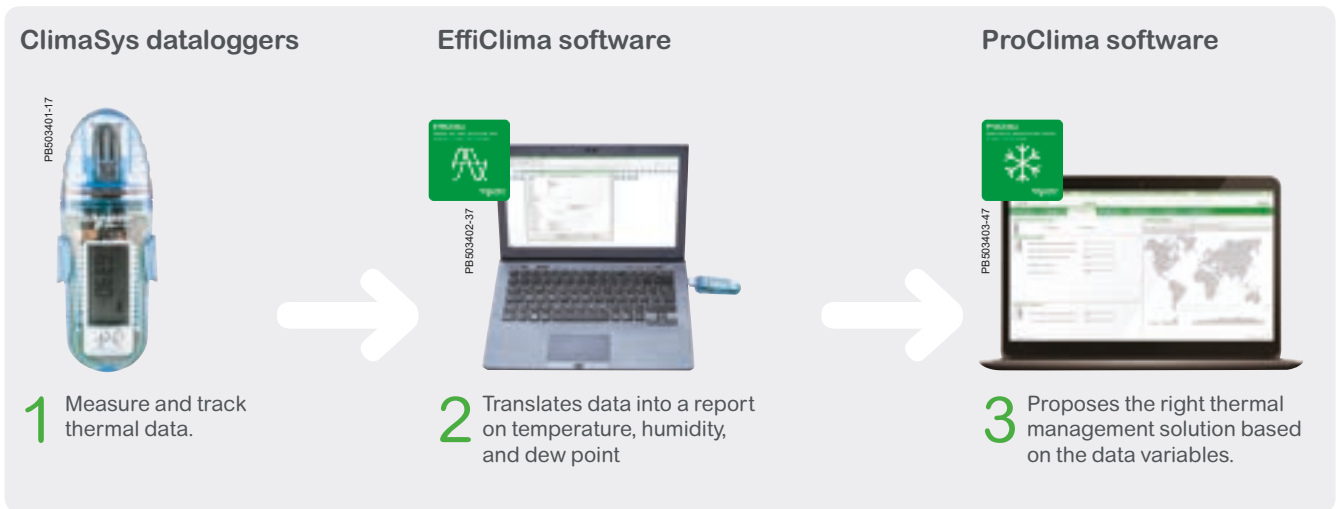
### How to use ClimaSys DT

Installation type	Need	
	What do you want to do?	
Greenfield	New Project	Determine enclosure sizing needs and the correct thermal solution
Brownfield	Power Dissipation verification	Measure the dissipation power of the installation in watts (enclosure without thermal solution installed)
	Electronics Health Test	Verify that there are no hot/ cold spots
	Thermal Solution Test	Measure the efficiency of the existing thermal solution in a certain period of time
	Humidity/ Condensation Test	Measure the risk of high humidity or condensation inside the enclosure

# Thermal management system Introduction

## ClimaSys DT: the solution to optimize the size of your enclosure

With ClimaSys DT dataloggers and EffiClima software, you can know with maximum accuracy the temperature evolution, humidity levels, and dew point inside and outside your control panels. This data can then be analyzed with ProClima thermal software to determine the optimal thermal solution for each of your control panel installations.



Selection of the dataloggers			
Variables to measure	How many dataloggers needed?	Model	Recommended installation
<ul style="list-style-type: none"> <li>■ T outside</li> <li>■ RH outside</li> </ul>	1	DTH reference <b>NSYDTEF32TRH</b>	
<ul style="list-style-type: none"> <li>■ T outside</li> <li>■ T inside</li> </ul>	2	DTT reference <b>NSYDTEF32T</b>	
<ul style="list-style-type: none"> <li>■ T inside</li> </ul>	1	DTT reference <b>NSYDTEF32T</b>	
<ul style="list-style-type: none"> <li>■ T outside</li> <li>■ T inside</li> </ul>	2	DTT reference <b>NSYDTEF32T</b>	
<ul style="list-style-type: none"> <li>■ T inside</li> <li>■ T outside</li> <li>■ HR inside/ outside</li> </ul>	2	DTH reference <b>NSYDTEF32TRH</b>	

# Thermal management system

## Introduction

➤ **ClimaSys DT** (Diagnostic Tools) dataloggers are an easy-to-use solution that enables users to:

- Access accurate and reliable thermal measurement data in design, commissioning, and exploitation phases
- Track fast or slow measurements
- Maintain continuity of service
- Optimize installations
- Detect hot and cold spots, and avoid condensation problems
- Determine if ventilation/cooling is possible.

PB503385-32



### ClimaSys DTT

ClimaSys DT model records the temperature.

PB503387-38



### ClimaSys DTH

ClimaSys DTH model records the temperature and the relative humidity level, and determine the dew point.

## + Advantages

PB503276-50



### ClimaSys DTT

- Time stamp/start/stop with magnet key
- Low power consumption for extended two-year battery life
- Easy data download to PC via USB connection
- USB firmware update
- QR code on dataloggers for easy online access to data sheets, videos, and other technical information

PE503404-95



### ClimaSys DTH

- Time stamp/start/stop with magnet key
- Dew point reading on LCD and software
- Fast response time for RH sensor
- USB firmware update
- Low power consumption for extended battery life (up to two years)
- QR code on dataloggers for easy online access to data sheets, videos, and other technical information



# Thermal management system

## Characteristics

### Dataloggers



Characteristics	DT	DTH
	<b>Temperature recorder</b>	<b>Temperature, humidity and dew point recorder</b>
Colour	Translucid	Translucid
Display Type	LCD display	LCD display
Dimensions		
Height	111 mm	111 mm
Width	39 mm	39 mm
Depth	26 mm	30 mm
Operating temperature	-40°C...80°C	-40°C...80°C
Ingress protection rating according to IEC 60529	IP67	IP54
Standard	EN 12830	EN 12830
Declaration	CE	CE
Fixing mode	Clip-on support	Clip-on support
Connector type	USB	USB
Data recording		
Temperature		
Setting	-40°C...80°C	-40°C...80°C
Accuracy	±0.3°C	±0.3°C
Resolution	0.03°C	<b>0.01°C</b>
Humidity		
Setting	-	5...95%
Accuracy	-	±2%
Resolution	-	0,5% HR
Battery		
Type	Lithium CR2032 3 V	Lithium CR2032 3 V
Lifespan	Maximum 2 years	Maximum 2 years
Composition	1	1
<b>References</b>	<b>NSYDTEF32T</b>	<b>NSYDTEF32TRH</b>

### Download EffiClima and ProClima free software



### Discover more

ClimaSys DT video  
of the concept



e-brochure



**Get maximum control panel performance  
and reliability**  
Thermal management solutions for critical electrical  
and electronic enclosures

Ref : UE16MK06EN








# Thermal management system

## Method to determine a thermal management solution

Here is a simple method to help you choose a thermal solution. This method does not take into account the humidity level outside the enclosure.

### Thermal balance

#### 1 - Characteristics of the enclosure

Position of the enclosure according to IEC 890 ratio	Formula for calculating S (m <sup>2</sup> )
 Accessible from every side	$S = 1.8 \times H \times (W + D) + 1.4 \times W \times D$
 Placed against a wall	$S = 1.4 \times W \times (H + D) + 1.8 \times D \times H$
 On the end when suited	$S = 1.4 \times D \times (H + W) + 1.8 \times W \times H$
 On the end when suited, placed against a wall	$S = 1.4 \times H \times (W + D) + 1.4 \times W \times D$
 In the middle when suited	$S = 1.8 \times W \times H + 1.4 \times W \times D + D \times H$
 In the middle when suited, placed against a wall	$S = 1.4 \times W \times (H + D) + D \times H$
 In the middle when suited, placed against a wall with the top covered	$S = 1.4 \times W \times H + 0.7 \times W \times D + D \times H$
	<b>S =</b> <input type="text" value=""/> <b>m<sup>2</sup></b>

H = Height - W = Width - D = Depth

#### Example

Spacial reference NSYSF20840

H = 2000

W = 800

D = 400

Installation method:

Suitable enclosure placed against a wall.

**S = 4.128 m<sup>2</sup>**

#### 2 - Thermal power dissipated by the operational components

Calculated as the sum of the power dissipated by each of the installed components.  
If these are not known, use the ProClima software.

**Pd =**  **W**

Assume that the switchgear dissipates 800 W.

**Pd = 800 W**

#### 3 - Temperatures outside the enclosure

Maximum ambient temperature.  
Minimum ambient temperature.

**Te<sub>max</sub> =**  **°C**  
**Te<sub>min</sub> =**  **°C**

The temperature conditions are as follows:

**Te<sub>max</sub> = 35°C**  
**Te<sub>min</sub> = 15°C**

#### 4 - Average desired internal temperatures

They are defined by the nature of the components and the characteristics of the environment air

Maximum internal temperature

Minimum internal temperature

(maximum value between the dew point temperature and the minimum operating temperature of the devices)

**Tid<sub>max</sub> =**  **°C**  
**Tid<sub>min</sub> =**  **°C**

**Tid<sub>max</sub> = 40°C**  
**Tid<sub>min</sub> = 29°C**

#### 5 - Temperature inside the enclosure without thermal management system

Max. internal temperature:  $T_{fi_{max}} = \frac{Pd}{K \times S} + Te_{max}$

Min. internal temperature:  $T_{fi_{min}} = \frac{Pd}{K \times S} + Te_{min}$

or K = 5.5 W/m<sup>2</sup>/°C for an enclosure made of painted sheet steel

K = 3.5 W/m<sup>2</sup>/°C for a polyester enclosure

K = 3.7 W/m<sup>2</sup>/°C for a stainless-steel enclosure

**Tfi<sub>max</sub> =**  **°C**

**Tfi<sub>min</sub> =**  **°C**

**Tfi<sub>max</sub> = 70°C**

**Tfi<sub>min</sub> = 50°C**

#### Calculation of thermal management power (Psyst)

##### a. Cooling systems:

$$Psyst = Pd - K \times S \times (Tid_{max} - Te_{max}) = 686 \text{ w}$$

##### b. Resistances:

Electrical installation operating constantly

$$Psyst = K \times S \times (Tid_{min} - Te_{min}) - Pd$$

Electrical installation operating discontinuously

$$Psyst = K \times S \times (Tid_{min} - Te_{min})$$

# Thermal management system

## Method to determine a thermal management solution

### Choice of solution

#### 1 - Cooling

Condition: Calculated temperature + 5°C > Temperature wanted.

Conditions	Solution	Advantages	Constraints
<b>Cooling</b>			
Temperature wanted in the enclosure at least 5°C higher than the ambient temperature. <b><math>T_{idmax} \geq T_{emin} + 5\text{°C}</math></b>	Oversize the enclosure.	Economical. No maintenance. Easy to implement. IP of the installation maintained.	Relatively small savings. Larger overall dimensions.
	Natural airing (installation of ventilation air inlets).	Very economical. No maintenance. Easy, fast installation.	Quantity of heat removed small and dependent on the layout of the components. Deterioration of the IP (ingress of dust).
	Forced ventilation.	Economical. Easy to implement. Large quantity of heat removed. Temperature control possible.	Regular maintenance of filters IP slightly degraded. Ambient temperature $\leq 35\text{°C}$ .
	Air-air exchanger.	Easy to implement. Easy to maintain. IP of the installation maintained. Regulated temperature.	Regular filter maintenance.
Temperature $T_{idmax}$ wanted in the enclosure 5°C less than the ambient temperature $T_{emax}$ . <b><math>T_{idmax} - 5\text{°C} \geq T_{emax}</math></b>	Cooling unit.	Easy to implement. Large quantity of heat removed irrespective of the ambient temperature. IP of the installation maintained. Regulated temperature.	Regular filter maintenance Ambient temperature $\leq 55\text{°C}$ . Installation of a system for removal of condensation water from the evaporator.
	Air-water exchanger.	Easy to implement. Large quantity of heat removed irrespective of the ambient temperature. IP of the installation maintained. Regulated temperature. No filter to be maintained.	Need for a water circuit. Consumption if supplied with town water.

$$(1) \text{ Flow rate (m}^3/\text{h)} = \emptyset = \frac{P_{syst}}{(T_{idmax} - T_{emax})} \times 3.1 \text{ (m}^3/\text{h)}$$

$$(2) \text{ Flow rate (W/K)} = \emptyset = \frac{P_{syst}}{(T_{idmax} - T_{emax})} \text{ (W/K)}$$

#### 2 - Heating

If the calculated temperature is less than the temperature wanted, the inside of the enclosure must be heated. The solution is to use heating resistors.

They can maintain the temperature above the dew point and thus prevent any risk of condensation.

To maintain a uniform temperature inside the enclosure and thus prevent hot spots, Schneider Electric proposes a heating resistor equipped with a fan.

#### 3 - Homogenize

Objective: Prevent hot spots.

Solution: stirring fan.

# Technical guides and spare parts

# Technical guides and spare parts

## Contents

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# Enclosures & thermal management systems certifications

Range	Assemblies alone					Equipped assembly system
	Empty assemblies for low-voltage switchgear	Standards for industrial equipment and UL classification	Marine environment classification or approval for protection and resistance to vibrations	Enclosures installed in a potentially explosive atmosphere	Outdoor Heavy Duty enclosures	Low-voltage switchgear and controlgear assemblies
	Standard/Directive					
	IEC 62208	UL508A and CAN CSA C22-2 no. 14	Rules of certifying bodies	European directive no. 2014/34/UE EN60079-0 / EN60079-7 EN60079-3 / EN60529	IEC 61439-5 ISO 12944-6 IEC 61969-3	IEC61439-1&2
<b>Spacial</b>						
SBM	●	●	● ●			
S3D	● ● (6)	●	● ● ●			
CRN	● (6)	●	●			
CRNG	● (6)	●	●			
S3DEX		●		●		
S3HF		●				
S3HD	● (6)	●			●	
S3CM		●				
SM	● ● (6)	●	●			
SF	● ● (6)	●	● ●			●
SFHD	● ● (6)	●			●	●
SFP/PH	● (6)					●
SFM						●
S3X	●	●	●			
SMX	●	●	● (3)			
SFX	● (3)	●	● (3)			
<b>Thalassa</b>						
TBS/TBP	●	● (1)				
PLS	●	●				
PLM	● ● (6)	●	●			
PLA	● ● (6)	●	●			
PLAT	● ● (6)					
PLAZ	● ● (6)					
PLAZT	● ● (6)					
PLD	●					
PHD	● (6)	●			● (2)	
<b>ClimaSys (4)</b>						
CV		●				
CU		●				
CE		●				
CR		● (5)				
CC		●				

(1) Only TBP. / (2) ISO 12944-6 only applies to the Spacial enclosures. / (3) Only for 1 door versions. / (4) EAC compliant.

(5) The insulated & aluminium resistance heaters of 12-24 V DC & 270-420 V AC are not certified. / (6) Compliance with Dekra.

For other certifications & declarations of conformity, please consult us.

Official certification body									
Bureau Veritas	LCIE (Bureau Veritas)	Bureau Veritas Marine Division	TÜV Rheinland Group	Underwriters Laboratories	Laboratorio Oficial J.M. Madariaga	DNV-GL	Lloyd's Register	Dekra	Asefa
PB500048	PB500049	PB500048	PB500050	PB500051	PB500052	DB301220	PB500055	DE301180	DE300966
									
●	●	●	●	●	●	●	●	●	●

# International enclosure standards

## Standards IEC 61439

Both the point of arrival of energy and a device for distribution to the site applications, the LV switchboard is the intelligence of the system, central to the electrical installation.

It plays an essential role in the availability of electric power, while meeting the needs of personal and property safety.

Its definition, design and installation are based on precise rules; there is no place for improvisation. The IEC 61439 standard aims to better define "low-voltage switchgear and controlgear assemblies", ensuring that the specified performances are reached.

It specifies in particular:

- the responsibilities of each player, distinguishing those of the original equipment manufacturer; the organization that performed the original design and associated verification of an assembly in accordance with the standard, and of the assembly manufacturer - the organization taking responsibility for the finished assembly
- the design and verification rules, constituting a benchmark for product certification

All the component parts of the electrical switchboard are concerned by the IEC 61439 standard. Equipment produced in accordance with the requirements of this switchboard standard ensures the safety and reliability of the installation.

### The main 10 functions of standard IEC 61439

For each of the following 10 functions, the standard IEC 61439 requires design verifications from the system manufacturer - mainly through type-tests defined in IEC 62208 - and routine verifications on each panel from the Panel Builder to achieve 3 basic goals: safety, continuity of service and compliance with end-user requirements.



#### Safety

##### ■ Voltage stresses withstand capability

To withstand long term voltages, and transient and temporary overvoltages according to the insulation coordination principles and requirements.

##### ■ Current-carrying capability

To protect against burns and to withstand temperature rise:

- when any circuit is continuously loaded, alone, to the specified current
- when the assembly is loaded to the specified current according to the specified load pattern (between circuits and/or as a function of the time).

##### ■ Short-circuit withstand capability

To withstand the stresses resulting from the prospective short-circuit current and from the associated data (High forces between conductors, temp. rise in a very short time, air ionization, overpressure).

##### ■ Protection against electric shock

- Hazardous-live-parts not to be accessible (basic protection).
- Accessible conductive parts not to become hazardous-live (fault protection).

##### ■ Protection against risk of fire or explosion

- Resistance to internal glowing elements.

*Note: Protection of persons, and optional protection of the assembly, against arcing due to internal fault can be specified through a "special test" according to IEC 61641.*



#### Continuity of service

##### ■ Maintenance and modification capability

Capability to preserve continuity of supply without impairing safety during assembly maintenance or modification.

- Electrical condition of the assembly or various circuits.
- Speed of exchange of the functional units.
- Test facilities...

##### ■ Electro-Magnetic compatibility

To properly function (immunity) and not to generate EM disturbances (emission) in specified environmental conditions:

- Industrial networks or locations (Environment A).
- Domestic, commercial, and light industrial locations (Environment B).



#### Compliance with end-user requirements

##### ■ Capability to operate the electrical installation

To properly function, according to:

- the electrical diagram of the overall system and related information (voltages, coordination...),
- the specified operating facilities (e.g. free or restricted access to Man Machine Interfaces, isolation of the outgoing circuits...).

##### ■ Capability to be installed on site

- To withstand handling, transport, storage... and installation constraints.
- Capability to be erected and connected (type of enclosure, type, material and cross sectional areas of external conductors).

##### ■ Protection of the assembly against mechanical and atmospheric environmental conditions

- Presence of water or solid foreign bodies (IP according to IEC 60529).
- External mechanical impacts (optional IK according to IEC 62262).
- Indoor or outdoor installation (humidity, UV).

# International enclosure standards

## Standards IEC 62208\*

PB50006-57



**Empty enclosures for low-voltage switchgear and controlgear assemblies. General rules.**

### Application

For empty enclosures before adding the user's switchgear, in the condition as supplied by the manufacturer.

### Field of application

Demands for testing the enclosures to be used as part of the switchgear assemblies for voltages of less than 1000 V alternating current and 1500 V direct current in accordance with IEC 61439.

### Information supplied by the manufacturer

- Commercial trademark of the manufacturer: Schneider Electric.
- Mechanical characteristics, materials, conditions for use.
- Conditions for use:
  - Ambient air temperature for outdoor installations: -25 to +40°C.
  - Atmospheric conditions for outdoor installations: the humidity can temporarily reach 100% at a temperature of 25°C.
  - Transport and storage conditions: from -25 to +55°C; for limited periods not exceeding 24 h: up to +70°C.

\* European standard EN 62208 is identical to IEC 62208. European countries publish this standard according to the body in each country (for example BS EN 62208 in the UK).

PB500057-57



## Standard tests of standard IEC 62208

- Static loads: test 1.25 x maximum admissible load during 1 hour.
- Lifting: applicable to enclosures with lifting accessories.
- Axial loads of metal inserts: 500 N for 10 seconds for M8 inserts.
- IK code: test according to standard IEC 62262 with pendulum impact tester. After testing, the enclosure keeps its IP rating.
- IP rating: test according to standard IEC 60529. Degree of protection against access to dangerous parts and the penetration of solid bodies and against the penetration of water.
- Thermal stability at a temperature of 70 °C: 7 days.
- Resistance to heat: ball test at 70 °C (1).
- Resistance to abnormal heat and to fire: glow wire test according to IEC 60695-2-10 and IEC 60695-2-11 (1).
- Dielectric strength: 5000 V (1).
- Protection circuit continuity (2): resistance not to exceed 0.1 ohm.
- Weather resistance: duration 500 h (cycle: rain 5 minutes + UV lamp 25 minutes).
- Corrosion resistance:
  - For indoor enclosures:
    - 6 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
    - 2 cycles of 24 hours of the salt mist test at 35 °C.
  - For outdoor enclosures:
    - 2 identical 12 day periods. Each one with:
      - 5 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
      - 7 cycles of 24 hours of the salt mist test at 35 °C.

Our empty enclosures are marked CE according to the Low-Voltage Directive (LVD). It is the responsibility of the final equipment manufacturer to respect regulations in force.

- (1) Information required for enclosures made from insulating material.  
 (2) For metal enclosures.



### Selection according to the IP protection degrees

The degrees of protection, explained on the next page, is an important element when selecting the enclosures.

The following table shows the protection degrees of the enclosures.

Name	Range	IP40	IP41	IP42	IP43	IP44	IP54	IP55	IP65	IP66
Metal industrial boxes	Spacial SBM							● (4)		● (4)
Metal derivation boxes	Spacial SDB							●		
Steel wall-mounting enclosures	Spacial S3D							● (1)		●
Steel modular distribution wall-mounting enclosures	Spacial S3DM									●
Terminal wall-mounting enclosures	Spacial S3DB									●
Steel wall-mounting enclosures	Spacial S3HF							●		
Steel wall-mounting enclosures	Spacial CRN									●
	Spacial CRNG							● (1)		●
EMC steel floor-standing enclosures	Spacial SFHF							●		
HMI control enclosures	Spacial S3CM						●			
ATEX steel wall-mounting enclosures	Spacial S3DEX									●
Steel outdoor wall-mounting enclosures	Spacial S3HD									●
Stainless-steel wall-mounting enclosures	Spacial S3X							● (1)		●
Seismic and nuclear enclosures	Spacial S3D6G / Spacial S3D6GK3								●	
Terminal enclosures with FL21 cut-out	Spacial S3DBFL								● (7)	
Steel floor-standing enclosures	Spacial SM							●		
Steel suitable enclosures	Spacial SF							●		
Steel outdoor floor-standing enclosures	Spacial SFHD							●		
Stainless-steel floor-standing enclosures	Spacial SMX							●		
Stainless-steel suitable enclosures	Spacial SFX							● (1)		●
Functional steel floor-standing enclosures	Spacial SFP							●		
Steel control desks	Spacial SD							●		
Stainless-steel control desks	Spacial SDX							●		
Thermoplastic industrial boxes	Thalassa TBS-TBP							● (5)		● (6)
Polyester modular boxes	Thalassa PLS								●	
Polyester wall-mounting enclosures	Thalassa PLM									●
Polyester outdoor wall-mounting enclosures	Thalassa PHD								●	
Polyester floor-standing enclosures	Thalassa PLA (2)					●		●	●	
	Thalassa PLD				●		● (3)			
Polyester outdoor floor-standing enclosures	Thalassa PHD							●		

(1) Double door.

(2) Different IP depending on the version. See introduction in Thalassa section: PLA: IP65, PLAT / PLAZT: IP44, PLAZ / PLAT / PLAZT with grille: IP54.

(3) With gasket.

(4) Different IP depending on the version: Spacial SBM flat box: IP66 - Spacial SBMC FL21 entry box: IP55.

(5) Button boxes.

(6) Universal boxes.

(7) With membrane mounted.

## The universal offer

> **3** Material solutions

Steel

Stainless-steel

Plastic & Polyester

### Selection according to the environment

The location of the enclosures and the physical, chemical and climatic conditions to which they are exposed will determine the model to be used.

- Steel enclosures are particularly well suited to indoor use in industrial environments.
- Stainless-steel enclosures are particularly well suited to corrosive environments or areas where specific hygiene demands are applicable.
- Polyester enclosures are particularly well suited to severe corrosive atmospheres, indoors or outdoors.

Enclosures made from insulating materials guarantee total insulation, reducing electric hazards for persons.

The main characteristics of the plastic materials of our enclosures and their chemical strength are given on page 583.

Further help for making the selection is given by the NEMA or UL classification of the enclosure, see page 580.

# Degrees of protection provided by enclosures

■ The degrees of protection provided by the enclosures are defined by standards IEC 60529 (IP) and IEC 62262 (IK).

■ Degrees of protection are indicated by the letters IP followed by two characteristic numerals. The numerals show the degree of protection offered by the enclosure against access to dangerous parts, the penetration of solid bodies (1st numeral), and against the penetration of liquids (2nd numeral).




























■ The protection against external mechanical impact is indicated by the letters IK followed by a characteristic group numeral.

**Note:** Many EN European standards are harmonised with international IEC standards.

This is the case with enclosure protection standards:

- EN 60529 = IEC 60529.

- EN 62262 = IEC 62262.

	IP		IK
First numeral Protection against solid bodies	Second numeral Protection against liquids	Mechanical protection	
<b>0</b> No protection 	<b>0</b> No protection 	<b>0</b> No protection 	
<b>1</b> Protected against solid bodies larger than 50 mm (e.g.: incidental contact with the hand) 	<b>1</b> Protected against vertically falling water droplets (condensation) 	<b>1</b> Impact energy: 0.150 Joules 7.5 cm 	
<b>2</b> Protected against solid bodies larger than 12 mm (e.g.: finger contact) 	<b>2</b> Protected against water droplets deflected at up to 15° from vertical 	<b>2</b> Impact energy: 0.200 Joules 10 cm 	
<b>3</b> Protected against solid bodies larger than 2.5 mm (tools, wires) 	<b>3</b> Protected against rainwater at up to 60° from vertical 	<b>3</b> Impact energy: 0.350 Joules 17.5 cm 	
<b>4</b> Protected against solid bodies larger than 1 mm (fine tools, small wires) 	<b>4</b> Protection against water spray from all directions 	<b>4</b> Impact energy: 0.500 Joules 25 cm 	
<b>5</b> Protected against dust (no harmful deposits) 	<b>5</b> Protection against low-pressure water jets from all directions 	<b>5</b> Impact energy: 0.700 Joules 35 cm 	
<b>6</b> Totally dust tight 	<b>6</b> Protection against powerful water jets from all directions 	<b>6</b> Impact energy: 1.00 Joules 20 cm 	
	<b>7</b> Protection against the effects of immersion 	<b>7</b> Impact energy: 2.00 Joules 40 cm 	
	<b>8</b> Protection against prolonged effects of immersion under pressure 	<b>8</b> Impact energy: 5.00 Joules 29.5 cm 	
		<b>9</b> Impact energy: 10.00 Joules 20 cm 	
		<b>10</b> Impact energy: 20.00 Joules 40 cm 	

# Classification of electrical equipment enclosures according to NEMA and UL

NEMA and UL are standardisation bodies, commonly recognised in North America, which have issued classifications of enclosures according to the protection offered in various environments.

These classifications are similar.

The 1<sup>st</sup> table below summarises this classification, which does not include potentially explosive areas. The detailed recommendations of this classification are given on the next page.

The 2<sup>nd</sup> table indicates the classification of our enclosures.

These classifications appear in our UL certifications (see Certification technical annex on page 580).

Certification according to the UL classification guarantees the corresponding NEMA classification by equivalence.

Environment and protection	Classification												
	1	2	3	3R	3S	4	4X	5	6	6P	12	13	
Indoor use	●	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor use			●	●	●	●	●		●				
Incidental contact with the equipment	●	●	●	●	●	●	●	●	●	●	●	●	●
Dirt	●	●	●	●	●	●	●	●	●	●	●	●	●
Drips and gentle splashes of non-corrosive liquids		●	●	●	●	●	●	●	●	●	●	●	●
Rain, frost* and snow			●	●	●	●	●		●	●			
Frost**					●								
Dust, fibres and particles in suspension			●		●	●	●		●	●	●	●	●
Built-up dust, fibres and particles in suspension			●		●	●	●	●	●	●	●	●	●
Clouds of dust			●		●	●	●		●	●	●	●	●
Splashes and jets of water						●	●		●	●			
Gentle splashes and leaks of oil or non-corrosive coolants											●	●	●
Drips, splashing and spraying of oil or non-corrosive coolants												●	●
Corrosive agents							●			●			
Occasional temporary immersion									●	●			
Occasional prolonged immersion										●			

\* The operation of the external mechanisms is not required when the enclosure is covered with frost.

\*\* The operation of the external mechanisms is required when the enclosure is covered with frost.

Enclosures		Type of protection (1)														
Name	Range	1	2	3	3R	3S	3X	3RX	3SX	4	4X	5	6	6P	12	13
Metal industrial boxes	SBM									●	●				● (3)	
HMI control enclosures	S3CM	●	●		●										●	●
Steel wall-mounting enclosures	S3D (1)	●	● (2)	● (2)	● (2)					● (2)	● (2)	●			●	●
	S3HF	●	●	●	●										●	●
Steel outdoor wall-mounting enclosures	S3HD	●	●	●	●					●	●	●			●	●
Steel wall-mounting enclosures	CRN	●	●	●	●					●	●				●	●
	CRNG	●	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)			●	●
Stainless-steel wall-mounting enclosures	S3X	●	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)			●	● (2)
Steel floor-standing enclosures	SM	●	● (2)	● (2)	●					● (2)	● (2)	● (2)			●	●
Polyester outdoor wall-mounting enclosures	PHD	●	●	●	●					● (2)	● (2)	●			●	●
Steel suitable enclosures	SF	●			●										●	●
Steel outdoor floor-standing enclosures	SFHD	●			●										●	●
Stainless-steel floor-standing enclosures	SMX	●	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)			●	●
Stainless-steel floor-standing enclosures	SFX	● (2)	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)			● (2)	● (2)
Thermoplastic boxes	TBP	●		●		●				●	●					
Polyester modular boxes	PLS	●	●	●	●	●				●	●				●	●
Polyester wall-mounting enclosures	PLM	●	●	●	●	●				●	●	●			●	●
Polyester floor-standing enclosures	PLA	●	●	● (2)	● (2)	● (2)	● (2)	● (2)	● (2)			● (2)			●	●

(1) Also S3DM, S3DEX, S57 and S3DC.

(2) 1 door.

(3) Types 12 only for SBMC.

Components		Type of protection (5)												
Name	Range	1	2	3	3R	3S	4	4X	5	6	6P	12	13	
Ventilation system	CV											●		
Thermal regulation system	CC	●												

(5) In some ranges the classification depends on the model and version. The detailed protection types are indicated in the UL certifications.

# Classification of electrical equipment enclosures according to NEMA and UL

The enclosures must protect the equipment against environmental conditions and protect the personnel against the risk of incidental contact with the equipment. The following classifications (Type) are required according to the required uses and prescriptions:

Type	Use	Prescription
1	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt.
2	Indoor use	It provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, drips and gentle splashes of non-corrosive liquids.
3	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown and resists the formation of ice on the outside.
3R	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and resists the formation of ice on the outside.
3S	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and windblown dust. The external mechanism must continue to work even when layers of ice are formed.
3X	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); that provides an additional level of protection against corrosion and that will be undamaged by the external formation of ice on the enclosure.
3RX	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); that will be undamaged by the external formation of ice on the enclosure that provides an additional level of protection against corrosion.
3SX	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); that provides an additional level of protection against corrosion; and for which the external mechanism(s) remain operable when ice laden.
4	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes and hose-directed water and resists the formation of frost on the outside.
4x	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes, hose-directed water and resists corrosion and the formation of ice on the outside.
5	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, settling airborne dust, lint, fibres, flyings, drips and gentle splashes of non-corrosive liquids.
6	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed water, the entry of water during occasional temporary submersion to a limited depth and resists the formation of ice on the outside.
6P	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed water, the entry of water during prolonged submersion to a limited depth and resists corrosion and the formation of ice on the outside.
12	Indoor use (without knockouts)	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, fluff, fibres, particles in suspension, drips and gentle splashes of non-corrosive liquids as well as gentle splashes or leaks of oil and non-corrosive coolants.
13	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, lint, fibres flyings and the spraying, splashing, and seepage leaks of water, oil or non-corrosive coolants.

**Note:** The above recommendations aim to explain the NEMA and UL classifications, but are not the official texts of NEMA or UL.

The exact definitions provided by the Organisations are those of standards NEMA 250 and UL 50E.

PB500063-55



PB500064-55



# Polyester base coating properties

PB600068-96



## Product type

Thermosetting polyester resins based powder coating modified by epoxy resins and designed for decoration and to prevent corrosion.

The performance of this coating is superior to conventional epoxy powders in terms of: colour stability, temperature resistance and weather resistance.

Grey RAL 7035; appearance: structured.

## Mechanical properties

Test conditions: steel samples with a thickness of 10/10° mm.

Degreasing using biodegradable surface-active agents.

Film thickness: 60 microns.

Bonding (scratching and adhesive tape)	ISO 2409	≥ to Class 1
Ericksen stamping	ISO 1520	≥ 7 mm
Direct impact resistance	ISO 6272	> 1 kg/70 cm
Indirect impact resistance	ISO 6272	> 1 kg/20 cm
Bending around conical mandrel	ISO 6860 - ASTM D 522-88	Maximum cracking of 70 mm, without the paint coming loose

## Chemical properties

Tests conducted at ambient temperature on phosphated samples covered with a 70 to 100 micron film:

■ Film intact.

■ Film attacked (blistering, yellowing, loss of gloss).

Number of months			2	4	6	8	10	12
<b>Acid</b>	Acetic	20 %	[Blue bar]					
	Sulphuric	30 %	[Blue bar]					
	Nitric	30 %	[Blue bar until 2 months, then Red bar]					
	Phosphoric	30 %	[Blue bar]					
	Hydrochloric	30 %	[Blue bar until 4 months, then Red bar]					
	Lactic	10 %	[Blue bar]					
	Citric	10 %	[Blue bar until 4 months, then Red bar]					
<b>Base</b>	Soda	10 %	[Blue bar until 1 month, then Red bar]					
	Ammonia	10 %	[Blue bar until 1 month, then Red bar]					
<b>Water</b>	Distilled water		[Blue bar until 8 months, then Red bar]					
	Sea water		[Blue bar]					
	Tap water		[Blue bar]					
	Diluted chloride bleach		[Blue bar until 2 months, then Red bar]					
<b>Solvents</b>	Petrol		[Blue bar until 4 months, then Red bar]					
	Higher alcohols		[Blue bar until 8 months, then Red bar]					
	Aliphatics		[Blue bar until 2 months, then Red bar]					
	Aromatics		[Blue bar until 4 months, then Red bar]					
	Ketones-esters		[Red bar]					
	Tri-perchlorethylene		[Red bar]					

## Physical properties

Temperature resistance: -40°C and 100 hours at +150°C (colour: white).

Gloss retention: good.

## Resistance to corrosion

Compliance with standard IEC 62208 for outdoor installations: 288 h of humid heat and 336 h of salt mist.

# Polyester base coating properties

## Nuclear decontamination

Applicable to colours RAL 7035 and AFNOR A550.  
Standard NFT 30901. Class 1 SC = 5% of decontamination for contamination by fission products. Please consult us for further details.

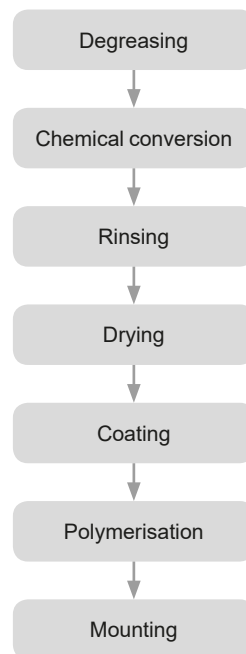
## Accelerated aging

Standard IEC 62208: 500 h UV according to ISO 4892-2 (method A) (adherence of the coating with minimum retention of 50% on the grid according to ISO 2409).

## Fire behaviour

Class M1 (self-extinguishing material).  
Class M0 (for coating on a metal base).

## Manufacturing process



# Properties of the plastic materials

## Mechanical, electrical, physical and fire-resistance properties

Plastic materials generally used to manufacture our products:

- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester reinforced with fibreglass.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Specifications	Standards	Units	ABS	Polycarbonate	PVC	Bayblend®	Polyester	SBS
<b>Mechanical properties</b>								
Tensile strength	ISO 257	MPa	44	> 65	45	35	85	5
Tensile strain	ISO 527	%	12	> 110	120 to 150	40	0	600
Impact resistance	ISO 179	kJ/m <sup>2</sup>	125	No breakage	25	No breakage	60	No breakage
Notching resistance	ISO 179	kJ/m <sup>2</sup>	19	25	20	25	50	-
<b>Electrical properties</b>								
Stress point	IEC 60112	-	-	250-300	> 600	> 550	> 600	-
Surface strength	IEC 60093	ohm	1015	> 1015	> 1013	> 1014	≥1012	> 1013
Dielectric strength	IEC 60243	kV/mm	16.5	> 30	30	24	18-20	20
Specific resistivity	IEC 60093	ohm <sup>3</sup> cm	1015	> 1016	≥ 1015	1016	≥ 1012	> 1016
<b>Physical properties</b>								
Softening temperature (Vicat B)	ISO 306	°C	95	145-150	79-80	115	(1)	80
Temperature resistance	-	°C	-40...+90	-50...+125	-20...+65	-35...+90	-50...+150	-40...+120
Water absorption	ISO 62	%	0.2 - 0.45	0.15	< 0.1	0.2	0.2	-
Density	ISO 1183	kg/dm <sup>3</sup>	1.04	1.21	1.4	1.12	1.85	0.3 in 24 h
<b>Fire resistance</b>								
Oxygen index	ISO 4589	%	19	26	45-50	22	24.4	18
Glow wire resistance, 2 mm	IEC 60695-2-10	°C	650	960	960	750	960	750° (1.5 mm)
Glow wire resistance, 3 mm	IEC 60695-2-10	°C	650	960	960	750	960	NA

(1) No softening of the polyester.

Specifications	Standards	Units	Altuglas	Polypropylene	Polystyrene	Polyamide 6	Polyamide 12
<b>Mechanical properties</b>							
Tensile strength	ISO 257	MPa	30	35	24	40	30
Tensile strain	ISO 527	%	5	400	36	200	300
Impact resistance	ISO 179	kJ/m <sup>2</sup>	20	20	63	No breakage	No breakage
Notching resistance	ISO 179	kJ/m <sup>2</sup>	3	5	50	31.2	15
<b>Electrical properties</b>							
Stress point	IEC 60112	-	-	-	KB175	KB175	KB180
Surface strength	IEC 60093	ohm	≥ 1014	-	> 1013	1012	5 x 1010
Dielectric strength	IEC 60243	kV/mm	13-15	20	≤ 40	23	55
Specific resistivity	IEC 60093	ohm <sup>3</sup> cm	> 1015	> 1016	> 1015	1011	3 x 1011
<b>Physical properties</b>							
Softening temperature (Vicat B)	ISO 306	°C	120-122	75 (vicat A)	79	230	140
Temperature resistance	-	°C	-20...+80	-10...+80	-15...+60	-20...+100	-50...+125
Water absorption	ISO 62	%	< 0.5	0.1 in 24 h	0.1 in 24 h	1.6	1.5
Density	ISO 1183	kg/dm <sup>3</sup>	1.18	0.91	1.06	1.14	1.03
<b>Fire resistance</b>							
Oxygen index	ISO 4589	%	18.5	18	18	24	22
Glow wire resistance, 2 mm	IEC 60695-2-10	°C	-	650	650	750	650
Glow wire resistance, 3 mm	IEC 60695-2-10	°C	960	650	650	850	650

# Properties of the plastic materials

## Resistance to chemical agents

The table shows:

- The concentration of the chemical agent in %; sat = saturation.
- The resistance of the material:
  - +: Resistant.
  - O: Limited resistance.
  - : Not resistant.

Plastic materials generally used to manufacture our products:

- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Resistance to	ABS	Polycarbonate	PVC	Bayblend®	Polyester	Altuglas	Polypropylene	Poly-styrene	Polyamide 6	Polyamide 12	SBS
Acetone	-	-	-	-	-	O	100 +	-	100 +	+	+
Hydrochloric acid	15 +	10 +	30 +	20 +	30 +	sat +	10 +	O	10 -	10 +	10 +
Citric acid		10 +	sat +	10 +	100 +	sat +	sat +	+	10 O	+	10 +
Lactic acid	80 +	10 +	90 +	10 -	100 +	20 +	90 +	O	50 O 90 -	+	sat +
Nitric acid	30 +	10 + 100 -	50 +	10 +	20 + +	10 + 100 -	25/ 50	O	2 O 10 -	-	50 +
Phosphoric acid	85 +	100 +	sat +	+	100 +	10 + 95 -	sat +	O	2 O 10 -	50 +	+
Sulphuric acid	50 +	50 + 100 -	96 +	30 +	70 +	30 +	96 +	O	3 -	10 +	96 +
Alcohol	O	96 +	96 +	-	50 O	50 O	96 +	+	96 O	96 +	+
Pure aniline	O	-	100 -	-	O	-	100 +		100 O	100 O	
Benzene	+	100 -	-	+	-	O	100 O		100 +	+	-
Liquid bromine		100 -	-	-			100 -			100 -	-
Liquid chlorine		-	100 -	-	sat +	-	100 -		100 O	-	50 +
Sea water	+	100 +	100 +	+	100 +	100 +	-	100 +		100 +	sat +
Petrol	+	100 +	100 O	-	100 +	100 O	-	-	100 +	+	-
Ether	-	100 O	100 -	-	100 O	+			100 +	100 +	-
Hexane	O	+	O	O	-		100 +		100 +	100 +	-
Oil and greases	+	100 +	100 +	O	100 +	100 O	100 +	-	+	100 +	-
Aromatic hydrocarbon	O	-	-	-	-	+	-	-	-	+	-
Fuel oil	O	100 O	100 +	-	100 +	100 -	100 +		100 +	100 +	-
Naphthalene			100 O	-	100 +	100 -	100 +		100 +	100 +	
Nitrobenzene	-	-	100 -	-	-	-	100 O		-	O	-
Phenol	-	-	sat O	-	20 O	-	sat +		-	-	10 O
Mineral salts		+	+	+	+	+	+			+	+
Iodine solution		O	-	+		-			+		
Toluene	-	-	100 -	-	+	O	100 O	-	100 +	100 +	-
Trichloroethylene	-	-	100 -	-	-	-	100 O	-	100 -	100 O	-
Urea		sat +	sat +	+			sat +		10 +	sat +	sat O

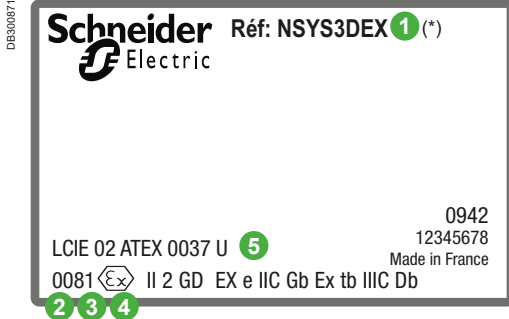
For other chemical agents, please contact us.

All this information is taken from the best sources and provided for information purposes only, with no commitment on our behalf.



# Description of the marking label affixed to ATEX certified wall-mounting enclosures

## Spacial S3DEX



- 1 Product range\*
- 2 **0163:** identification No. of the notified body for application of the ATEX directive.  
**⊕:** distinctive Community mark indicating that the product is authorized in explosive atmospheres.  
**II:** industry Group (II = surface industry).  
**2:** equipment category (2 = occasional presence, Zone 1 or 21).  
**GD:** type of atmosphere (G= Gas and vapour or mist, D= Dust).
- 3 **Ex:** symbol indicating that the equipment corresponds to one or more protection methods standardized by Cénélec.  
**e:** protection method used: e = enhanced safety (EN 60079-7).  
**IIC:** gas group (hydrogen/acetylene).  
**Gb:** protection method for non-electric equipment (check on power supply source).  
**G = gas.**
- 4 **Ex:** symbol indicating that the equipment corresponds to one or more protection methods standardized by Cénélec.  
**t:** protection method used: t = protection by enclosure (EN 60079-31).  
**IIIC:** dust group (conductive dust).  
**Db:** protection method for non-electric equipment (check on power supply source).  
**D = dust.**
- 5 Name of the certification body + No. of the CE type certificate.
- 6 **IP66:** degree of intrusion protection..

\* with the dimensions



Download our ATEX certificates from our site.

# Selection table

## Steel industrial boxes and steel wall-mounting enclosures

### Steel industrial boxes

PB503351-20



SBM	
Description	References
<b>Accessories</b>	
Bag of acces. SBM boxes 4 screws	NSYSBMABS4
Bag of acces. SBM boxes 6 screws	NSYSBMABS6

### Steel wall-mounting enclosures

PB500199-30



S3D			
Description	References	Description	References
<b>Doors</b>			
Plain door 300 x 200	NSYDS3D32	Glazed door 500 x 500	NSYDS3D55T
Plain door 300 x 250	NSYDS3D325	Glazed door 500 x 600	NSYDS3D56T
Plain door 300 x 300	NSYDS3D33	Glazed door 600 x 400	NSYDS3D64T
Plain door 300 x 400	NSYDS3D34	Glazed door 600 x 500	NSYDS3D65T
Plain door 400 x 300	NSYDS3D43	Glazed door 600 x 600	NSYDS3D66T
Plain door 400 x 400	NSYDS3D44	Glazed door 600 x 800	NSYDS3D68T
Plain door 400 x 600	NSYDS3D46	Glazed door 700 x 500	NSYDS3D75T
Plain door 500 x 300	NSYDS3D53	Glazed door 700 x 600	NSYDS3D76T
Plain door 500 x 400	NSYDS3D54	Glazed door 800 x 600	NSYDS3D86T
Plain door 500 x 500	NSYDS3D55	Glazed door 800 x 800	NSYDS3D88T
Plain door 600 x 400	NSYDS3D64	Glazed door 1000 x 600	NSYDS3D106T
Plain door 600 x 500	NSYDS3D65	Glazed door 1000 x 800	NSYDS3D108T
Plain door 600 x 600	NSYDS3D66	Glazed door 1000 x 1000	NSYDS3D1010T
Plain door 600 x 800	NSYDS3D68	Glazed door 1200 x 600	NSYDS3D126T
Plain door 700 x 500	NSYDS3D75	Glazed door 1200 x 800	NSYDS3D128T
Plain door 800 x 600	NSYDS3D86	Glazed door 1200 x 1000	NSYDS3D1210T
Plain door 800 x 800	NSYDS3D88	Glazed door 1000 x 500 right	NSYDS3D105TR
Plain door 800 x 1000	NSYDS3D810	Glazed door 1000 x 500 left	NSYDS3D105TL
Plain door 800 x 500 right	NSYDS3D85R	Glazed door 1200 x 500 right	NSYDS3D125TR
Plain door 800 x 500 left	NSYDS3D85L	Glazed door 1200 x 500 left	NSYDS3D125TL
Plain door 800 x 600 right	NSYDS3D86R	<b>Door accessories</b>	
Plain door 800 x 600 left	NSYDS3D86L	Gasket double door encl.	NSYGDD
Plain door 1000 x 600	NSYDS3D106	Set of 5 taps and latches	NSYS3DTL
Plain door 1000 x 800	NSYDS3D108	Hinge 120°	NSYAEDH120S3D
Plain door 1000 x 1000	NSYDS3D1010	Hinge 180°	NSYAEDH180S3D
Plain door 1200 x 1000	NSYDS3D1210	<b>Earthing accessories</b>	
Plain door 1000 x 500 right	NSYDS3D105R	Set of 500 earthing labels	NSYSWMEL
Plain door 1000 x 500 left	NSYDS3D105L	<b>Fixing hardware</b>	
Plain door 1000 x 600 right	NSYDS3D106R	100 screws cable gland plate	NSYS3DCGSB
Plain door 1000 x 600 left	NSYDS3D106L	Standard screw bag cable gland plate	NSYS3DCGPSTDSB
Plain door 1200 x 600	NSYDS3D126	<b>Locking accessories</b>	
Plain door 1200 x 800	NSYDS3D128	Set of 10 linkage guides	NSYS3DLG
Plain door 1200 x 500 right	NSYDS3D125R	Standard key DB3	NSYAEDLS3DKDB3
Plain door 1200 x 500 left	NSYDS3D125L	Lock + standard key DB3 neutral	NSYAEDLS3DRLN
Plain door 1200 x 600 right	NSYDS3D126R	3 point lock linkage H 600 mm	NSYBTAS3D60
Plain door 1200 x 600 left	NSYDS3D126L	3 point lock linkage H 700 mm	NSYBTAS3D70
Plain door 1400 x 500 right	NSYDS3D145R	3 point lock linkage H 800 mm	NSYBTAS3D80
Plain door 1400 x 500 left	NSYDS3D145L	3 point lock linkage H 1000 mm	NSYBTAS3D100
Glazed door 300 x 250	NSYDS3D325T	3 point lock linkage H 1200 mm	NSYBTAS3D120
Glazed door 300 x 300	NSYDS3D33T	3 point lock linkage H 1400 mm	NSYBTAS3D140
Glazed door 300 x 400	NSYDS3D34T	Lock with key type 3131A	NSYAEDL3131AS3D
Glazed door 300 x 600	NSYDS3D36T	3 point lock linkage (H = 650 mm)	NSYBTAS3D65
Glazed door 400 x 300	NSYDS3D43T	3 point lock linkage (H = 900 mm)	NSYBTAS3D90
Glazed door 400 x 400	NSYDS3D44T	<b>Panels</b>	
Glazed door 400 x 600	NSYDS3D46T	50 caps for holes of hinges WM	NSYSWMCH
Glazed door 500 x 300	NSYDS3D53T	Set of 50 back plugs WM	NSYSWMBP
Glazed door 500 x 400	NSYDS3D54T		



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# Selection table

## Steel wall-mounting enclosures

### Steel wall-mounting enclosures



PES00097-29

S3DM			
Description	References	Description	References
<b>Doors</b>		<b>Locking accessories</b>	
Glazed door 400 x 300	NSYDS3D43T	Set of 10 linkage guides	NSYS3DLG
Glazed door 500 x 400	NSYDS3D54T	Standard key DB3	NSYAEDLS3DKDB3
Glazed door 600 x 400	NSYDS3D64T	3 point lock linkage H 600 mm	NSYBTAS3D60
Glazed door 600 x 600	NSYDS3D66T	3 point lock linkage H 700 mm	NSYBTAS3D70
Glazed door 700 x 500	NSYDS3D75T	3 point lock linkage H 800 mm	NSYBTAS3D80
Glazed door 800 x 600	NSYDS3D86T	3 point lock linkage H 1000 mm	NSYBTAS3D100
Glazed door 1000 x 600	NSYDS3D106T	<b>Panels</b>	
Glazed door 1000 x 800	NSYDS3D108T	50 caps for holes of hinges WM	NSYSWMCH
<b>Earthing accessories</b>		Set of 50 back plugs WM	NSYSWMBP
Set of 500 earthing labels	NSYSWMEL		
<b>Fixing hardware</b>			
100 screws cable gland plate	NSYS3DCGSB		
Standard screw bag cable gland plate	NSYS3DCGPSTDSB		

S3DC			
Description	References	Description	References
<b>Doors</b>		<b>Earthing accessories</b>	
Plain door 300 x 200	NSYDS3DC32	Set of 500 earthing labels	NSYSWMEL
Plain door 300 x 300	NSYDS3DC33	<b>Locking accessories</b>	
Plain door 400 x 300	NSYDS3DC43	Set of 10 linkage guides	NSYS3DLG
Plain door 400 x 400	NSYDS3DC44	Standard lock enclosures	NSYAEDLS3DC
Plain door 500 x 400	NSYDS3DC54	3 point lock linkage H 600 mm	NSYBTAS3D60
Plain door 500 x 500	NSYDS3DC55	3 point lock linkage H 700 mm	NSYBTAS3D70
Plain door 600 x 400	NSYDS3DC64	3 point lock linkage H 800 mm	NSYBTAS3D80
Plain door 600 x 600	NSYDS3DC66	3 point lock linkage H 1000 mm	NSYBTAS3D100
Plain door 700 x 500	NSYDS3DC75	3 point lock linkage H 1200 mm	NSYBTAS3D120
Plain door 800 x 600	NSYDS3DC86	<b>Panels</b>	
Plain door 800 x 800	NSYDS3DC88	50 caps for holes of hinges WM	NSYSWMCH
Plain door 1000 x 600	NSYDS3DC106	Set of 50 back plugs WM	NSYSWMBP
Plain door 1000 x 800	NSYDS3DC108		
Plain door 1000 x 1000	NSYDS3DC1010		
Plain door 1200 x 800	NSYDS3DC128		
Plain door 1200 x 1000	NSYDS3DC1210		

S3DCD			
Description	References	Description	References
<b>Doors</b>		<b>Locking accessories</b>	
Plain door 500 x 500	NSYDS3DCD55	Standard lock enclosures	NSYAEDLS3DC
Plain door 600 x 600	NSYDS3DCD66	3 point lock linkage H 700 mm	NSYBTAS3D70
Plain door 700 x 500	NSYDS3DCD75	3 point lock linkage H 800 mm	NSYBTAS3D80
Plain door 800 x 600	NSYDS3DCD86	3 point lock linkage H 1000 mm	NSYBTAS3D100
Plain door 1000 x 600	NSYDS3DCD106	3 point lock linkage H 1200 mm	NSYBTAS3D120
Plain door 1000 x 800	NSYDS3DCD108	<b>Panels</b>	
Plain door 1000 x 1000	NSYDS3DCD1010	50 caps for holes of hinges WM	NSYSWMCH
Plain door 1200 x 1000	NSYDS3DCD1210	Set of 50 back plugs WM	NSYSWMBP

S3DB			
Description	References	Description	References
<b>Doors</b>		<b>Earthing accessories</b>	
Plain door 250 x 300	NSYDS3DB2530	Set of 500 earthing labels	NSYSWMEL
Plain door 250 x 400	NSYDS3DB2540	<b>Locking accessories</b>	
Plain door 250 x 500	NSYDS3DB2550	Standard key DB3	NSYAEDLS3DKDB3
Plain door 300 x 300	NSYDS3DB33	<b>Panels</b>	
Plain door 300 x 400	NSYDS3DB34	50 caps for holes of hinges WM	NSYSWMCH
Plain door 300 x 500	NSYDS3DB35	Set of 50 back plugs WM	NSYSWMBP
Plain door 300 x 600	NSYDS3DB36		
Plain door 400 x 300	NSYDS3DB43		
Plain door 400 x 800	NSYDS3DB48		
Plain door 500 x 400	NSYDS3DB54		
Plain door 600 x 400	NSYDS3DB64		

# Selection table

## Steel wall-mounting enclosures

### Steel wall-mounting enclosures

PB50038B-31



CRN			
Description	References	Description	References
<b>Doors</b>			
Glazed door H 300 x W 250	NSYDCRN3025T	Plain door H 500 x W 400	NSYDCRN54
Glazed door H 300 x W 300	NSYDCRN33T	Plain door H 500 x W 500	NSYDCRN55
Glazed door H 300 x W 400	NSYDCRN34T	Plain door H 600 x W 400	NSYDCRN64
Glazed door H 400 x W 300	NSYDCRN43T	Plain door H 600 x W 500	NSYDCRN65
Glazed door H 400 x W 400	NSYDCRN44T	Plain door H 600 x W 600	NSYDCRN66
Glazed door H 400 x W 600	NSYDCRN46T	Plain door H 600 x W 800	NSYDCRN68
Glazed door H 500 x W 400	NSYDCRN54T	Plain door H 700 x W 500	NSYDCRN75
Glazed door H 500 x W 500	NSYDCRN55T	Plain door H 800 x W 600	NSYDCRN86
Glazed door H 600 x W 400	NSYDCRN64T	Plain door H 800 x W 800	NSYDCRN88
Glazed door H 600 x W 500	NSYDCRN65T	Plain door H 1000 x W 600	NSYDCRN106
Glazed door H 600 x W 600	NSYDCRN66T	Plain door H 1000 x W 800	NSYDCRN108
Glazed door H 600 x W 800	NSYDCRN68T	<b>Door accessories</b>	
Glazed door H 700 x W 500	NSYDCRN75T	Standard Spacial hinge	NSYBICRN
Glazed door H 800 x W 600	NSYDCRN86T	<b>Earthing accessories</b>	
Glazed door H 800 x W 800	NSYDCRN88T	Set of 500 earthing labels	NSYSWMEL
Glazed door H 1000 x W 600	NSYDCRN106T	<b>Locking accessories</b>	
Glazed door H 1000 x W 800	NSYDCRN108T	TCRE1 Lock	NSYTCRE1
Plain door H 200 x W 200	NSYDCRN22	TCRE12 Lock	NSYTCRE12
Plain door H 200 x W 300	NSYDCRN23	<b>Panels</b>	
Plain door H 250 x W 200	NSYDCRN2520	Set of 50 back plugs WM	NSYSWMBP
Plain door H 300 x W 250	NSYDCRN3025	<b>Fixing hardware</b>	
Plain door H 300 x W 300	NSYDCRN33	Screw bag for CRN cable gland-plate	NSYCRNCGPSTDSB
Plain door H 300 x W 400	NSYDCRN34	<b>Sealing</b>	
Plain door H 300 x W 450	NSYDCRN3045	Adhesive sealing gasket 18 x 10 2M	NSYADG2M
Plain door H 400 x W 300	NSYDCRN43	Adhesive sealing gasket 18 x 10 3M	NSYADG3M
Plain door H 400 x W 400	NSYDCRN44	Adhesive sealing gasket 18 x 10 5M	NSYADG5M
Plain door H 400 x W 600	NSYDCRN46	Adhesive sealing gasket 18 x 10 20M	NSYADG20M

PB500373-30



CRNG			
Description	References	Description	References
<b>Doors</b>			
Plain door H 800 x W 600	NSYDCRNG86	Glazed door H 1000 x W 800	NSYDCRNG108T
Plain door left H 800 x W 500	NSYDCRNG85L	Glazed door H 1000 x W 1000	NSYDCRNG1010T
Plain door right H 800 x W 500	NSYDCRNG85R	Glazed door H 1200 x W 600	NSYDCRNG126T
Plain door left H 800 x W 600	NSYDCRNG86L	Glazed door H 1200 x W 600	NSYDCRNG126T
Plain door right H 800 x W 600	NSYDCRNG86R	Glazed door H 1200 x W 800	NSYDCRNG128T
Plain door H 1000 x W 600	NSYDCRNG106	Glazed door H 1200 x W 800	NSYDCRNG128T
Plain door H 1000 x W 800	NSYDCRNG108	<b>Door accessories</b>	
Plain door left H 1000 x W 500	NSYDCRNG105L	Hinge 120°	NSYAEDH120S3D
Plain door right H 1000 x W 500	NSYDCRNG105R	Hinge 180°	NSYAEDH180S3D
Plain door right H 1000 x W 600	NSYDCRNG106R	<b>Locking accessories</b>	
Plain door left H 1000 x W 600	NSYDCRNG106L	3 point lock linkage for Spacial CRNG (H = 800mm)	NSYBTACRNG80
Plain door right H 1000 x W 600	NSYDCRNG106R	3 point lock linkage for Spacial CRNG (H = 1000mm)	NSYBTACRNG100
Plain door left H 1000 x W 600	NSYDCRNG106L	3 point lock linkage for Spacial CRNG (H = 1200mm)	NSYBTACRNG120
Plain door H 1200 x W 600	NSYDCRNG126	3 point lock linkage for Spacial CRNG (H = 1400mm)	NSYBTACRNG140
Plain door H 1200 x W 600	NSYDCRNG126	<b>Earthing accessories</b>	
Plain door H 1200 x W 800	NSYDCRNG128	Set of 500 earthing labels	NSYSWMEL
Plain door right H 1200 x W 500	NSYDCRNG125R	<b>Fixing hardware</b>	
Plain door left H 1200 x W 500	NSYDCRNG125L	100 screws cable gland plate	NSYS3DCGSB
Plain door right H 1200 x W 500	NSYDCRNG125R	Standard screw bag cable gland plate	NSYS3DCGPSTDSB
Plain door H 1200 x W 600	NSYDCRNG126R	<b>Panels</b>	
Plain door left H 1200 x W 600	NSYDCRNG126L	50 caps for holes of hinges WM	NSYSWMCH
Plain door H 1200 x W 600	NSYDCRNG126R	Set of 50 back plugs WM	NSYSWMBP
Plain door left H 1200 x W 600	NSYDCRNG126L	<b>Others accessories</b>	
Plain door right H 1400 x W 500	NSYDCRNG145R	Screw bag for CRN cable gland-plate	NSYCRNCGPSTDSB
Plain door left H 1400 x W 500	NSYDCRNG145L		
Glazed door H 800 x W 600	NSYDCRNG86T		
Glazed door H 1000 x W 600	NSYDCRNG106T		

# Selection table

## Steel floor-standing enclosures

### Steel floor-standing enclosures



PB509800-17

PB502412-23



PB503544-30

Double door stoppers  
(2 pieces)

SF		SF	
Description	References	Description	References
<b>Doors</b>		<b>Fixing hardware for side panel</b>	
Spacial SFP plain door H 2000 x W 700 mm	NSYSFD207	Captive screws for panels external fixing	NSYCSSF
Spacial SFP transparent door H 2000 x W 700 mm	NSYSFD207T	<b>Plinth accessories</b>	
<b>Door accessories</b>		H 100 mm Plastic covers for plinth corners	NSYPC100
Set of 4 Hinges & fixing elements	NSYDHSF	H 200 mm Plastic covers for plinth corners	NSYPC200
Double door stoppers (2 pieces)	NSYDSSF2D	<b>Installation accessories</b>	
<b>Door locking accessories</b>		Set of 2 quick cross-rails 120 x 400 mm	NSYSQCR12040
Locking system for enclosures 1 single door version 1200H (right side door for double door version)	NSYLCK12SF	Set of 2 quick cross-rails 120 x 500 mm	NSYSQCR12050
Locking system for enclosures 1 single door version 1400H	NSYLCK14SF	Set of 2 quick cross-rails 120 x 600 mm	NSYSQCR12060
Locking system for enclosures 1 single door version 1600H (right side door for double door version)	NSYLCK16SF	Set of 2 quick cross-rails 120 x 800 mm	NSYSQCR12080
Locking system for enclosures 1 single door version 1800H (right side door for double door version)	NSYLCK18SF	<b>Panels</b>	
Locking system for enclosures 1 single door version 2000H (right side door for double door version)	NSYLCK20SF	Spacial SFP back panel H 2000 x W 700 mm	NSYBP207
Locking system for enclosures 1 single door version 2200H (right side door for double door version)	NSYLCK22SF	<b>Framework</b>	
Door locking system toothed washer	NSYLCKWSF	8 gaskets framework uprights Spacial SF	NSYSFVG
Handle neutral trim	NSYSFHTRIM		
Handle SF	NSYSFHS1		



PB50272-30

New roof



PB502415-27

Old roof



PB503543-10

Fix roof off-center bracket

SF			SF		
Description	References		Description	References	
Roof	New roof (expanded)	Old roof (integrated)	Roof	New roof (expanded)	Old roof (integrated)
Roof W 300 x D 500 mm	NSYRSF35L	NSYRSF35	Roof W 1000 x D 400 mm	NSYRSF104L	NSYRSF104
Roof W 300 x D 600 mm	NSYRSF36L	NSYRSF36	Roof W 1000 x D 500 mm	NSYRSF105L	NSYRSF105
Roof W 300 x D 800 mm	NSYRSF38L	NSYRSF38	Roof W 1000 x D 600 mm	NSYRSF106L	NSYRSF106
Roof W 400 x D 400 mm	NSYRSF44L	NSYRSF44	Roof W 1000 x D 800 mm	NSYRSF108L	NSYRSF108
Roof W 400 x D 500 mm	NSYRSF45L	NSYRSF45	Roof W 1200 x D 400 mm	NSYRSF124L	NSYRSF124
Roof W 600 x D 400 mm	NSYRSF64L	NSYRSF64	Roof W 1200 x D 500 mm	NSYRSF125L	NSYRSF125
Roof W 600 x D 500 mm	NSYRSF65L	NSYRSF65	Roof W 1200 x D 600 mm	NSYRSF126L	NSYRSF126
Roof W 600 x D 600 mm	NSYRSF66L	NSYRSF66	Roof W 1200 x D 800 mm	NSYRSF128L	NSYRSF128
Roof W 700 x D 500 mm	NSYRSF75L	NSYRSF75	Roof W 1600 x D 400 mm	NSYRSF164L	NSYRSF164
Roof W 700 x D 600 mm	NSYRSF76L	NSYRSF76	Roof W 1600 x D 500 mm	NSYRSF165L	NSYRSF165
Roof W 700 x D 800 mm	NSYRSF78L	NSYRSF78	Roof W 1600 x D 600 mm	NSYRSF166L	NSYRSF166
Roof W 800 x D 400 mm	NSYRSF84L	NSYRSF84	<b>"New roof" accessory</b>		
Roof W 800 x D 500 mm	NSYRSF85L	NSYRSF85	Fix roof off-center bracket	NSYRSFBLR	
Roof W 800 x D 600 mm	NSYRSF86L	NSYRSF86			
Roof W 800 x D 800 mm	NSYRSF88L	NSYRSF88			

# Selection table

## Steel floor-standing enclosures

### Steel floor-standing enclosures

PB502401-26



SM			
Description	References	Description	References
<b>Cable gland plates</b>		<b>Locking accessories</b>	
1 entry W 1000 x D 400 mm	NSYSMEC1041	Locking system for enclosures 1 single door version 1200H (right side door for double door version)	NSYLCK12SF
1 entry W 1000 x D 300 mm	NSYSMEC1031	Locking system for enclosures 1 single door version 1600H (right side door for double door version)	NSYLCK16SF
1 entry W 1000 x D 500 mm	NSYSMEC1051	Locking system for enclosures 1 single door version 1800H (right side door for double door version)	NSYLCK18SF
1 entry W 600 x D 300 mm	NSYSMEC631	Locking system for enclosures 1 single door version 2000H (right side door for double door version)	NSYLCK20SF
1 entry W 600 x D 400 mm	NSYSMEC641	Locking system for enclosures 1 single door version 2200H (right side door for double door version)	NSYLCK22SF
1 entry W 600 x D 500 mm	NSYSMEC651	Locking system for enclosures 1 single door version 1400H	NSYLCK14SF
1 entry W 600 x D 600 mm	NSYSMEC661	Door locking system toothed washer	NSYLCKWSF
1 entry W 800 x D 300 mm	NSYSMEC831	Handle neutral trim	NSYSFHNTRIM
1 entry W 800 x D 400 mm	NSYSMEC841	<b>Plinth accessories</b>	
1 entry W 800 x D 500 mm	NSYSMEC851	H 100 mm Plastic covers for plinth corners	NSYPC100
1 entry W 800 x D 600 mm	NSYSMEC861	H 200 mm Plastic covers for plinth corners	NSYPC200
<b>Doors</b>			
Double plain door H 1200 x W 1000 mm	NSYSMD12102D		
Double plain door H 1200 x W 1200 mm	NSYSMD12122D		
Double plain door H 1400 x W 1000 mm	NSYSMD14102D		
Double plain door H 1400 x W 1200 mm	NSYSMD14122D		
Double plain door H 1600 x W 1000 mm	NSYSMD16102D		
Double plain door H 1600 x W 1200 mm	NSYSMD16122D		
Double plain door H 1800 x W 1600 mm	NSYSMD18162D		
<b>Door accessories</b>			
Set of 4 hinges & fixing elements	NSYDHSF		
Spacial SM hinges & 2D door stop	NSYDHSM2D		
Double door stoppers (2 pieces)	NSYTDSSF2D		

OLN and S6000			
Description	References	Description	References
<b>Doors</b>		<b>Panels</b>	
Plain door H 1800 x W 600 mm	OLPU186	Roof trim neutral 600 mm	NSYTRIM6S6
Plain door H 1800 x W 800 mm	OLPU188	Roof trim neutral 800 mm	NSYTRIM8S6
Plain door H 2000 x W 600 mm	OLPU206	Roof trim neutral 1000 mm	NSYTRIM10S6
Plain door H 2000 x W 800 mm	OLPU208	Side panel H 1800 x W 500	2PLOL185
Plain door H 2000 x W 1000 mm	OLPU2010	Side panel H 1800 x W 600	2PLOL186
Transparent door H 1800 x W 800 mm	OLPU188KT	Side panel H 2000 x W 500	2PLOL205
Transparent door H 2000 x W 800 mm	OLPU208KT	Side panel H 2000 x W 600	2PLOL206
<b>Door accessories</b>		Side panel H 2000 x W 800	2PLOL208
Standard door hinges and pins, 4 units	NSYDHS6		
Standard gasket for gland plate, 2000 mm	NSYGKTS6		
<b>Locking accessories</b>			
Standard handle in RAL 7011 without insert	NSYSDH		
Flat escutcheon DB 5 mm insert	NSYEMPOLN		

CMO and S18500			
Description	References	Description	References
<b>Doors</b>		<b>Locking accessories</b>	
Plain door H 1800 x W 600 mm	OLPU186	Standard handle in RAL 7011	NSYSDH
Plain door H 1800 x W 800 mm	OLPU188	Flat escutcheon DB 5 mm insert	NSYEMPOLN
Plain door H 2000 x W 600 mm	OLPU206	<b>Panels</b>	
Plain door H 2000 x W 800 mm	OLPU208	Roof trim neutral 600 mm	NSYTRIM6S18
Plain door H 2000 x W 1000 mm	OLPU2010	Roof trim neutral 800 mm	NSYTRIM8S18
Transparent door H 1800 x W 800 mm	OLPU188KT	Roof trim neutral 1000 mm	NSYTRIM10S18
Transparent door H 2000 x W 800 mm	OLPU208KT		
<b>Door accessories</b>			
Standard door hinges and pins, 4 units	NSYDHS18		
Standard gasket for gland plate, 2000 mm	NSYGKTS6		

# Selection table

## Stainless-steel enclosures

### Stainless-steel enclosures



PB500075-40

S3X (wall-mounting)			
Description	References	Description	References
<b>Doors</b>			
Left door 304L 1000 x 1000 mm	NSYDS3X1010L	Plain door 316L 400 x 600 mm	NSYDS3X46H
Left door 316L 1000 x 1000 mm	NSYDS3X1010LH	Plain door 304L 500 x 400 mm	NSYDS3X54
Right door 304L 1000 x 1000 mm	NSYDS3X1010R	Plain door 316L 500 x 400 mm	NSYDS3X54H
Right door 316L 1000 x 1000 mm	NSYDS3X1010RH	Plain door 304L 600 x 400 mm	NSYDS3X64
Plain door 304L 1000 x 800 mm	NSYDS3X108	Plain door 316L 600 x 400 mm	NSYDS3X64H
Plain door 316L 1000 x 800 mm	NSYDS3X108H	Plain door 304L 600 x 600 mm	NSYDS3X66
Left door 304L 1200 x 1000 mm	NSYDS3X1210L	Plain door 316L 600 x 600 mm	NSYDS3X66H
Left door 316L 1200 x 1000 mm	NSYDS3X1210LH	Plain door 304L 700 x 500 mm	NSYDS3X75
Right door 304L 1200 x 1000 mm	NSYDS3X1210R	Plain door 316L 700 x 500 mm	NSYDS3X75H
Right door 316L 1200 x 1000 mm	NSYDS3X1210RH	Plain door 304L 800 x 600 mm	NSYDS3X86
Plain door 304L 1200 x 800 mm	NSYDS3X128	Plain door 316L 800 x 600 mm	NSYDS3X86H
Plain door 316L 1200 x 800 mm	NSYDS3X128H	Plain door 304L 800 x 800 mm	NSYDS3X88
Plain door 304L 300 x 200 mm	NSYDS3X32	Plain door 316L 800 x 800 mm	NSYDS3X88H
Plain door 304L 300 x 250 mm	NSYDS3X325	Transp. door 304L 1000 x 800 mm	NSYDS3X108T
Plain door 316L 300 x 250 mm	NSYDS3X325H	Transp. door 304L 400 x 300 mm	NSYDS3X43T
Plain door 316L 300 x 200 mm	NSYDS3X32H	Transp. door 304L 500 x 400 mm	NSYDS3X54T
Plain door 304L 300 x 300 mm	NSYDS3X33	Transp. door 304L 600 x 400 mm	NSYDS3X64T
Plain door 316L 300 x 300 mm	NSYDS3X33H	Transp. door 304L 700 x 500 mm	NSYDS3X75T
Plain door 304L 400 x 300 mm	NSYDS3X43	Transp. door 304L 800 x 600 mm	NSYDS3X86T
Plain door 316L 400 x 300 mm	NSYDS3X43H	<b>Door accessories</b>	
Plain door 304L 400 x 400 mm	NSYDS3X44	Set of 2 hinges	NSYHS3X
Plain door 316L 400 x 400 mm	NSYDS3X44H	<b>Locking accessories</b>	
Plain door 304L 400 x 600 mm	NSYDS3X46	Locking system 1000 mm	NSYLSS3X10
		Locking system 1200 mm	NSYLSS3X12



PB500138-45

SMX (floor-standing)			
Description	References	Description	References
<b>Cable gland plates</b>			
Cable gland plate SMX64/SFX65	NSYCEX2	Door 304L 1800 x 800 mm	NSYDSFX188
Cable gland p. SDX85/SMX85/SFX86	NSYCEX7	Door 316L 1800 x 800 mm	NSYDSFX188H
Cable gland plate SMX103	NSYCEX10	Left door 304L 1800 x 1600 mm	NSYDSFX1816L
Cable gland plate SMX104	NSYCEX11	Left door 316L 1800 x 1600 mm	NSYDSFX1816LH
Cable gland plate SMX104 316L	NSYCEX12	Right door 304L 1800 x 1600 mm	NSYDSFX1816R
Cable gland plate SMX124	NSYCEX14	Right door 316L 1800 x 1600 mm	NSYDSFX1816RH
Cable gland plate SMX124 316L	NSYCEX15	Left door 2000 x 1000 mm	NSYDSFX2010L
Cable gland plate SMX125 316L	NSYCEX17	Left door 316L 2000 x 1000 mm	NSYDSFX2010LH
Cable gland plate SMX84/SMX164	NSYCEX5	Right door 2000 x 1000 mm	NSYDSFX2010R
Cable gland plate SMX166	NSYCEX8	Right door 316L 2000 x 1000 mm	NSYDSFX2010RH
Cable gland plate SMX166 316L	NSYCEX9	Door 1800 x 800 mm	NSYDSFX206
Cable gland plate SMX84/SMX164 316L	NSYCEX6	Left door 2000 x 1200 mm	NSYDSFX2012L
Cable gland plate SDX125/SMX125	NSYCEX16	Left door 316L 2000 x 1200 mm	NSYDSFX2012LH
<b>Doors</b>			
Left door 304L 1400 x 1000 mm	NSYDSFX1410L	Right door 2000 x 1200 mm	NSYDSFX2012R
Right door 304L 1400 x 1000 mm	NSYDSFX1410R	Right door 316L 2000 x 1200 mm	NSYDSFX2012RH
Door 304L 1600 x 800 mm	NSYDSFX168	Door 2000 x 800 mm	NSYDSFX208
Door 304L 1800 x 600 mm	NSYDSFX186	Left door 2000 x 1600 mm	NSYDSFX2016L
Left door 1800 x 1200 mm	NSYDSFX1812L	Left door 316L 2000 x 1600 mm	NSYDSFX2016LH
Left door 316L 1800 x 1200 mm	NSYDSFX1812LH	Right door 2000 x 1600 mm SMX	NSYDSFX2016R
Right door 1800 x 1200 mm	NSYDSFX1812R	Right door 316L 2000 x 1600 mm	NSYDSFX2016RH
Right door 316L 1800 x 1200 mm	NSYDSFX1812RH	<b>Locking accessories</b>	
		Locking system H = 1400 mm	NSYLSSF14
		Locking system H = 1600 mm	NSYLSSF16
		Locking system H = 1800 mm	NSYLSSF18
		Locking system H = 2000 mm	NSYLSSF20
		<b>Door accessories</b>	
		Double door stoppers (2 pieces)	NSYTDSSF2D

# Selection table

## Stainless-steel enclosures and insulating materials

### Stainless-steel enclosures



PB501254-36

SFX (floor-standing)			
Description	References	Description	References
<b>Cable gland plates</b>			
Cable gland plate SFX64	NSYCEX1	Door 1800 x 800 mm	NSYDSFX206
Cable gland plate SMX64/SFX65	NSYCEX2	Left door 2000 x 1200 mm	NSYDSFX2012L
Cable gland p. SDX85/SMX85/SFX86	NSYCEX7	Right door 2000 x 1200 mm	NSYDSFX2012R
Cable gland plate SFX84	NSYCEX4	Door 2000 x 800 mm	NSYDSFX208
Cable gland plate SDX105/SFX106	NSYCEX13	Left door 2000 x 1600 mm	NSYDSFX2016L
Cable gland plate SDX65/SFX126	NSYCEX3	Right door 2000 x 1600 mm	NSYDSFX2016R
Cable gland plate 800x400 mm SFX	NSYCEX84A	<b>Door accessories</b>	
<b>Doors</b>			
Door 304L 1800 x 600 mm	NSYDSFX186	Set of 3 hinges	NSYHSMX
Left door 1800 x 1200 mm	NSYDSFX1812L	Double door stoppers (2 pieces)	NSYTDSSF2D
Right door 1800 x 1200 mm	NSYDSFX1812R	<b>Locking accessories</b>	
Door 304L 1800 x 800 mm	NSYDSFX188	Locking system H = 1400 mm	NSYLSAFX14
Left door 2000 x 1000 mm	NSYDSFX2010L	Locking system H = 1600 mm	NSYLSAFX16
Right door 2000 x 1000 mm	NSYDSFX2010R	Locking system H = 1800 mm	NSYLSAFX18
		Locking system H = 2000 mm	NSYLSAFX20

### Insulating materials



PB5013478E-29

PLA (floor-standing)			
Description	References	Description	References
<b>Complete door</b>			
(door + lock + hinges)	For RAL7035	Door 1250 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA125HG
Door 500 x 500. Lock handle type. Door opening 120°	NSYDPLA55G	Door 1250 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA127HG
Door 500 x 750. Lock handle type. Door opening 120°	NSYDPLA57G	Door 1500 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA155HG
Door 750 x 500. Lock handle type. Door opening 120°	NSYDPLA75G	Door 1500 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA157HG
Door 750 x 750. Lock handle type. Door opening 120°	NSYDPLA77G	<b>Door accessories</b>	
Door 1000 x 500. Lock handle type. Door opening 120°	NSYDPLA105G	One hinge + axe for PLA (120° opening)	NSYAEDPLA004
Door 1000 x 750. Lock handle type. Door opening 120°	NSYDPLA107G	Kit of axes of door PLAZT (180° opening)	NSYAEDPLA005
Door 1250 x 500. Lock handle type. Door opening 120°	NSYDPLA125G	Rod guide inside the door PLA (set of 2)	NSYAEDPLA001
Door 1250 x 750. Lock handle type. Door opening 120°	NSYDPLA127G	Rod guide on 1 door PLA (set of 2)	NSYAEDPLA002G
Door 1500 x 500. Lock handle type. Door opening 120°	NSYDPLA155G	Rod guide on 2 doors PLA (set of 2)	NSYAEDPLA003G
Door 1500 x 750. Lock handle type. Door opening 120°	NSYDPLA157G	<b>Fixing hardware</b>	
Door 500 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA55HG	Acc. bag for 1 door H = 500-1000 mm	NSYASPLA001
Door 500 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA57HG	Acc. bag for 2 door H = 1250-1500 mm	NSYASPLA002
Door 750 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA75HG	Acc. bag for 2 door	NSYASPLA003
Door 750 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA77HG	<b>Locking accessories</b>	
Door 1000 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA105HG	Handle locking and rods H = 500 mm	NSYVPLA5MG
Door 1000 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA107HG	Handle locking and rods H = 750 mm	NSYVPLA7MG
		Handle locking and rods H = 1000 mm	NSYVPLA10MG
		Handle locking and rods H = 1250 mm	NSYVPLA12MG
		Handle locking and rods H = 1500 mm	NSYVPLA15MG
		<b>Plinths - front or back plate</b>	
		For PLA 500 mm width	NSYZZ5FP
		For PLA 700 mm width	NSYZZ7FP
		For PLA 1000 mm width	NSYZZ10FP
		For PLA 1200 mm width	NSYZZ12FP



# Selection table

## Insulating materials and HMI

### Insulating materials



P8501325SE-32

PLM (wall-mounting)			
Description	References	Description	References
<b>Complete door</b> (door + lock system)	<b>For RAL7035</b>	<b>Door accessories</b>	
Door with locking for PLM32	NSYDPLM32G	Door hinge for NSYPLM32	NSYAEDHPLM32
Door with locking for PLM3025	NSYDPLM3025G	Door hinge for NSYPLM3025	NSYAEDHPLM3025
Door with locking for PLM43	NSYDPLM43G	Door hinge for NSYPLM43 to 86	NSYAEDHPLM
Door with locking for PLM54	NSYDPLM54G	Door hinge for NSYPLM108	NSYAEDHPLM108
Door with locking for PLM64	NSYDPLM64G	Rod guides (4 pieces) for PLM108	NSYAEDPLM108
Door with locking for PLM75	NSYDPLM75G	<b>Fixing hardware</b>	
Door with locking for PLM86	NSYDPLM86G	Acc. bag NSYPLM32	NSYASPLM32
Door with locking for PLM108	NSYDPLM108G	Acc. bag NSYPLM43 to 86	NSYASPLM
Transp. door with locking for PLM32T	NSYDPLM32T	<b>Locking accessories</b>	
Glazed door with locking for PLM3025T	NSYDPLM3025TG	Locking and rods for NSYPLM108	NSYVPLM108
Glazed door with locking for PLM43T	NSYDPLM43TG		
Glazed door with locking for PLM54T	NSYDPLM54TG		
Glazed door with locking for PLM64T	NSYDPLM64TG		
Glazed door with locking for PLM75T	NSYDPLM75TG		
Glazed door with locking for PLM86T	NSYDPLM86TG		
Glazed door with locking for PLM108T	NSYDPLM108TG		

### Applicative and customised solutions: HMI



P8501202-36

SD			
Description	References	Description	References
<b>Cable gland plates</b>		Cover W 600 mm for modular console	NSYMCCSD6
1 entry W 600 mm	NSYCESD6R	Frontal door W 600 mm	NSYDSD6
1 entry W 800 mm	NSYCESD8R	Frontal door W 800 mm	NSYDSD8
1 entry W 1000 mm	NSYCESD10R	Frontal right door W 1000 mm	NSYDSD10R
1 entry W 1200 mm	NSYCESD12R	Frontal left door W 1000 mm	NSYDSD10L
1 entry W 600 x D 800 mm	NSYFCESD68	Frontal right door W 1200 mm	NSYDSD12R
1 entry W 800 x D 800 mm	NSYFCESD88	Frontal left door W 1200 mm	NSYDSD12L
1 entry W 1000 x D 800 mm	NSYFCESD108	Frontal door w/console W 800 mm	NSYDSD8F
1 entry W 1200 x D 800 mm	NSYFCESD128	Front. R door w/console W 1000 mm	NSYDSD10R
1 entry W 1600 x D 800 mm	NSYFCESD168	Front. L door w/console W 1000 mm	NSYDSD10L
1 entry W 800 x D 1000 mm	NSYFCESD810	Front. R door w/console W 1200 mm	NSYDSD12R
1 entry W 1000 x D 1000 mm	NSYFCESD1010	Front. L door w/console W 1200 mm	NSYDSD12L
1 entry W 1200 x D 1000 mm	NSYFCESD1210	Front. R door w/console W 1600 mm	NSYDSD16R
1 entry W 1600 x D 1000 mm	NSYFCESD1610	Front. L door w/console W 1600 mm	NSYDSD16L
<b>Doors</b>		<b>Door accessories</b>	
Desk lid W 600 mm	NSYDLSD6	Hinges compact control desk	NSYHSD
Desk lid W 800 mm	NSYDLSD8	Hinges control desk w/console	NSYHSDF
Desk lid W 1000 mm	NSYDLSD10	<b>Locking accessories</b>	
Desk lid W 1200 mm	NSYDLSD12	Standard handle in RAL 7011	NSYSDH
Desk lid for w/console W 800 mm	NSYDLSD8F	Flat escutcheon DB 5 mm insert	NSYEMPOLN
Desk lid for w/console W 1000 mm	NSYDLSD10F	Lock w/DB 3 mm for frontal doors	NSYFDLSD
Desk lid for w/console W 1200 mm	NSYDLSD12F	Lock w/DB 3 mm desk lids & covers	NSYDLLSDF
Desk lid for w/console W 1600 mm	NSYDLSD16F	Flat escutcheon with DB 5 mm	NSYDSDFLCKDB5
Folding console cover W 800 mm	NSYCCSDF8	<b>Panels</b>	
Folding console cover W 1000 mm	NSYCCSDF10	Rear panel W 600 mm	NSYBPSD6
Folding console cover W 1200 mm	NSYCCSDF12	Rear panel W 800 mm	NSYBPSD8
Folding console cover W 1600 mm	NSYCCSDF16	Rear panel W 1000 mm	NSYBPSD10
Cover W 400 mm for modular console	NSYMCCSD4	Rear panel W 1200 mm	NSYBPSD12

# Selection table

## HMI and EMC

### Applicative and customised solutions: HMI

PB501267-38



SDX			
Description	References	Description	References
<b>Cable gland plates</b>			
Cable gland pl. SDX85/SMX85/SFX86	NSYCEX7		
Cable gland plate SDX105/SFX106	NSYCEX13		
Cable gland plate SDX125/SMX125	NSYCEX16		
Cable gland plate SDX65/SFX126	NSYCEX3		
<b>Doors</b>			
Frontal door 600 mm	NSYSDSX6		
Frontal door 800 mm	NSYSDSX8		
Frontal right door 1000 mm	NSYSDSX10R		
Frontal right door 1200 mm	NSYSDSX12R		
Frontal left door 1000 mm	NSYSDSX10L		
Frontal left door 1200 mm	NSYSDSX12L		
Desk lid 1000 mm	NSYDLSDX10		
Desk lid 1200 mm	NSYDLSDX12		
Desk lid 600 mm	NSYDLSDX6		
Desk lid 800 mm	NSYDLSDX8		
		<b>Locking accessories</b>	
		Locking system	NSYLSSDX
		<b>Panels</b>	
		Rear panel 1000 mm	NSYBPSDX10
		Rear panel 1200 mm	NSYBPSDX12
		Rear panel 600 mm	NSYBPSDX6
		Rear panel 800 mm	NSYBPSDX8

PB500300-36



S3CM			
Description	References	Description	References
<b>Doors</b>			
Plain door H 200 x W 200	NSYDCRN22		
Plain door H 200 x W 300	NSYDCRN23		
Plain door H 250 x W 200	NSYDCRN2520		
Plain door H 300 x W 250	NSYDCRN3025		
Plain door H 300 x W 300	NSYDCRN33		
Plain door H 300 x W 400	NSYDCRN34		
Plain door H 300 x W 450	NSYDCRN3045		
Plain door H 400 x W 300	NSYDCRN43		
Plain door H 400 x W 400	NSYDCRN44		
Plain door H 400 x W 600	NSYDCRN46		
Plain door H 500 x W 500	NSYDCRN55		
Plain door H 600 x W 600	NSYDCRN66		
Plain door H 600 x W 800	NSYDCRN68		
Plain door H 800 x W 600	NSYDCRN86		
		<b>Door accessories</b>	
		Standard Spacial hinge	NSYBICRN
		<b>Earthing accessories</b>	
		Set of 500 earthing labels	NSYSWMEL
		<b>Panels</b>	
		Aluminium plate H 250 x W 600	NSYPACMT256
		Aluminium plate H 300 x W 300	NSYPAS3CM33
		Aluminium plate H 300 x W 400	NSYPAS3CM34
		Aluminium plate H 400 x W 400	NSYPAS3CM44
		Aluminium plate H 400 x W 600	NSYPAS3CM46
		Aluminium plate H 500 x W 500	NSYPAS3CM55
		Aluminium plate H 600 x W 600	NSYPAS3CM66
		Aluminium plate H 600 x W 800	NSYPAS3CM68
		Aluminium plate H 800 x W 600	NSYPAS3CM86

### Applicative and customised solutions: EMC

PB500205-42



S3HF			
Description	References	Description	References
<b>Doors</b>			
Plain door H 400 x W 300	NSYDS3HF43		
Plain door H 400 x W 600	NSYDS3HF46		
Plain door H 500 x W 400	NSYDS3HF54		
Plain door H 600 x W 400	NSYDS3HF64		
Plain door H 600 x W 600	NSYDS3HF66		
Plain door H 700 x W 500	NSYDS3HF75		
Plain door H 800 x W 600	NSYDS3HF86		
Plain door H 1000 x W 800	NSYDS3HF108		
Plain door H 1200 x W 800	NSYDS3HF128		
		<b>Earthing accessories</b>	
		Set of 500 earthing labels	NSYSWMEL
		<b>Locking accessories</b>	
		Standard Locking system	NSYAEDLS3HFDB3

# Selection table

## ATEX and Heavy duty

### Applicative and customised solutions: ATEX

PB500096



S3DEX			
Description	References	Description	References
<b>Doors</b>			
Plain door 300 x 200	NSYDS3D32	Set of 10 linkage guides	NSYS3DLG
Plain door 300 x 300	NSYDS3D33	Standard key DB3	NSYAEDLS3DKDB3
Plain door 400 x 300	NSYDS3D43	3 point lock linkage H 600 mm	NSYBTAS3D60
Plain door 400 x 400	NSYDS3D44	3 point lock linkage H 700 mm	NSYBTAS3D70
Plain door 500 x 400	NSYDS3D54	3 point lock linkage H 800 mm	NSYBTAS3D80
Plain door 600 x 400	NSYDS3D64	3 point lock linkage H 1000 mm	NSYBTAS3D100
Plain door 600 x 600	NSYDS3D66	<b>Panels</b>	
Plain door 700 x 500	NSYDS3D75	50 caps for holes of hinges WM	NSYSWMCH
Plain door 800 x 600	NSYDS3D86	Set of 50 back plugs WM	NSYSWMBP
Plain door 1000 x 800	NSYDS3D108	<b>Earthing accessories</b>	
Set of 500 earthing labels		NSYSWMEL	

### Outdoor Heavy Duty enclosures

PB502845-21



Thalassa PHD			
Description	References	Description	References
<b>Aluminium cable-gland plate</b>			
For enclosure W 750 x D 420	NSYPPC74HD	<b>Door accessories</b>	
For enclosure W 750 x D 620	NSYPPC76HD	Set of 4 complete hinges for PHD	NSYAEOPHD
For enclosure W 500 x D 420	NSYPPC54HD	<b>Locking accessories</b>	
For enclosure W 1250 x D 420	NSYPPC54HD + NSYPPC74HD	Complete lock system for PHD H 500	NSYVPHD5
For enclosure W 1250 x D 620	NSYPPC56HD + NSYPPC76HD	Complete lock system for PHD H 750	NSYVPHD7
Screws and nuts for PHD gland plate (10 units)	NSYPPCPHDSN	Complete lock system for PHD H 1000	NSYVPHD10
<b>Plain doors</b> (door + lock + hinges + door retainer)		Complete lock system for PHD H 1250	NSYVPHD12
	Unic door or right door	Complete lock system for PHD H 1500	NSYVPHD15
	Left door	Complete lock system for PHD H 2000	2 x NSYVPHD10
For enclosures H 538 x W 500	NSYDPHD55P	<b>Ventilated plinths - front or back plate</b>	
For enclosures H 788 x W 500	NSYDPHD75P	For PHD 1200 mm width	NSYZZ12VHDFP
For enclosures H 843 x W 750	NSYDPHD77P	For PHD 500 mm width	NSYZZ5VHDFP
For enclosures H 1093 x W 500	NSYDPHD105P	For PHD 700 mm width	NSYZZ7VHDFP
For enclosures H 1093 x W 750	NSYDPHD107P		
For enclosures H 1343 x W 500	NSYDPHD125P		
For enclosures H 1343 x W 750	NSYDPHD127P		
For enclosures H 1343 x W 1250	NSYDPHD127P	NSYDPHD125LP	
For enclosures H 1593 x W 750	NSYDPHD157P	-	
For enclosures H 1593 x W 1250	NSYDPHD157P	NSYDPHD155LP	
For enclosures H 2093 x W 750	2 x NSYDPHD107P	-	
<b>Ribbed doors</b> (door + lock + hinges + door retainer)		Unic door or right door	Left door
For enclosures H 538 x W 500	NSYDPHD55R	-	
For enclosures H 788 x W 500	NSYDPHD75R	-	
For enclosures H 843 x W 750	NSYDPHD77R	-	
For enclosures H 1093 x W 500	NSYDPHD105R	-	
For enclosures H 1093 x W 750	NSYDPHD107R	-	
For enclosures H 1343 x W 500	NSYDPHD125R	-	
For enclosures H 1343 x W 750	NSYDPHD127R	-	
For enclosures H 1343 x W 1250	NSYDPHD127R	NSYDPHD125LR	
For enclosures H 1593 x W 750	NSYDPHD157R	-	
For enclosures H 1593 x W 1250	NSYDPHD157R	NSYDPHD155LR	
For enclosures H 2093 x W 750	2 x NSYDPHD107R	-	

# Selection table

## Heavy duty

### Outdoor Heavy Duty enclosures

PB502683-17



Spacial S3HD			
Description	References	Description	References
<b>Heavy duty cable-gland plate</b>			
For enclosure H 343 x W 200 x D 180	NSYTLAUHD	<b>Hinge</b>	
For enclosure H 448 x W 300 x D 230	NSYTLCUHD	S3HD hinge	NSYAEDH120S3HD
For enclosure H 548 x W 400 x D 230	NSYTLDUHD	<b>Canopy</b>	
For enclosure H 653 x W 400 x D 280	NSYTLDUHD	Canopy for S3HD 200 (W) x 150 (P)	NSYTJ2015HD
For enclosure H 658 x W 600 x D 330	NSYTLGUHD	Canopy for S3HD 300 (W) x 200 (P)	NSYTJ3020HD
For enclosure H 753 x W 500 x D 280	NSYTLUHD	Canopy for S3HD 400 (W) x 200 (P)	NSYTJ4020HD
For enclosure H 858 x W 600 x D 330	NSYTLGUHD	Canopy for S3HD 400 (W) x 250 (P)	NSYTJ4025HD
For enclosure H 862 x W 800 x D 430	2 x NSYTLDUHD	Canopy for S3HD 600 (W) x 300 (P)	NSYTJ6030HD
For enclosure H 1062 x W 600 x D 430	NSYTLGUHD	Canopy for S3HD 500 (W) x 250 (P)	NSYTJ5025HD
For enclosure H 1062 x W 800 x D 430	2 x NSYTLDUHD	Canopy for S3HD 800 (W) x 400 (P)	NSYTJ8040HD
<b>Door</b>			
Door 300 x 200 S3HD, without handle	NSYDS3HD32	<b>Lock</b>	
Door 400 x 300 S3HD, without handle	NSYDS3HD43	Lock S3HD DB 3 mm (Escutcheon+cam+washer)	NSYAEDLS3HDRL
Door 500 x 400 S3HD, without handle	NSYDS3HD54		
Door 600 x 400 S3HD + linkage locking syst	NSYDS3HD64		
Door 600 x 600 S3HD + linkage locking syst	NSYDS3HD66		
Door 700 x 500 S3HD + linkage locking syst	NSYDS3HD75		
Door 800 x 600 S3HD + linkage locking syst	NSYDS3HD86		
Door 800 x 800 S3HD + linkage locking syst	NSYDS3HD88		
Door 1000 x 600 S3HD + linkage locking syst	NSYDS3HD106		
Door 1000 x 800 S3HD + linkage locking syst	NSYDS3HD108		

PB502683-17



Spacial SFHD			
Description	References	Description	References
<b>Heavy duty cable-gland plate</b>			
For enclosure H 1262 x W 600 x D 430	NSYSFECA64HD	<b>Back Panel</b>	
For enclosure H 1262 x W 800 x D 430	NSYSFECA64HD	Back panel SFHD 1200 x 600mm	NSYBPHD126
For enclosure H 1262 x W 1200 x D 430	2 x NSYSFECA64HD	Back panel SFHD 1200 x 800mm	NSYBPHD128
For enclosure H 1281 x W 600 x D 630	NSYSFECA66HD	Back panel SFHD 1200 x 1200mm	NSYBPHD12122D
For enclosure H 1281 x W 800 x D 630	NSYSFECA66HD	Back panel SFHD 1600 x 600mm	NSYBPHD166
For enclosure H 1281 x W 1200 x D 630	2 x NSYSFECA66HD	Back panel SFHD 1600 x 800mm	NSYBPHD168
For enclosure H 1662 x W 800 x D 430	NSYSFECA64HD	Back panel SFHD 1600 x 1200mm	NSYBPHD1612
For enclosure H 1662 x W 1200 x D 430	2 x NSYSFECA64HD	Back panel SFHD 2000 x 800mm	NSYBPHD208
For enclosure H 1681 x W 600 x D 630	NSYSFECA66HD	<b>Canopy</b>	
For enclosure H 1681 x W 800 x D 630	NSYSFECA66HD	Canopy SFHD 600 x 400mm	NSYSC64HD
For enclosure H 1681 x W 1200 x D 630	2 x NSYSFECA66HD	Canopy SFHD 600 x 600mm	NSYSC66HD
For enclosure H 2062 x W 800 x D 430	NSYSFECA64HD	Canopy SFHD 800 x 400mm	NSYSC84HD
<b>Door</b>			
Plain door SFHD 1200 x 600mm	NSYSFDHD126	Canopy SFHD 800 x 600mm	NSYSC86HD
Plain door SFHD 1200 x 800mm	NSYSFDHD128	Canopy SFHD 1200 x 400mm	NSYSC124HD
Plain door SFHD 1200 x 1200mm	NSYSFDHD12122D	Canopy SFHD 1200 x 600mm	NSYSC126HD
Plain door SFHD 1600 x 600mm	NSYSFDHD166	<b>Handle with 1242E cylindrical barrel</b>	
Plain door SFHD 1600 x 800mm	NSYSFDHD168	Handle SFHD 1242E	NSYSFHS1HD
Plain door double SFHD 1600 x 1200mm	NSYSFDHD16122D	<b>Captive screws</b>	
Plain door SFHD 2000 x 800mm	NSYSFDHD208	Captive screws for Spacial SFHD panels	NSYCSSFHD

# Selection table

## ClimaSys



### AIR-AIR EXCHANGERS

Reference	Exchanger Battery	Fan (Fan + Capacitor)	Frontal Cover RAL 7035	Thermostat	Mounting Kit (instruction + full seal + screws)
NSYCEA14E	NSYCUSP0030	NSYCUSP0042	NSYCUSP0076	-	NSYCUSP0111
NSYCEA22E	NSYCUSP0177	NSYCUSP0042	NSYCUSP0181	-	NSYCUSP0184
NSYCEA36	NSYCUSP0031	NSYCUSP0044	NSYCUSP0077	NSYCUSP0100	NSYCUSP0112
NSYCEA50	NSYCUSP0032	NSYCUSP0044	NSYCUSP0077	NSYCUSP0100	NSYCUSP0112
NSYCEA80	NSYCUSP0033	NSYCUSP0138	NSYCUSP0078	NSYCUSP0100	NSYCUSP0113

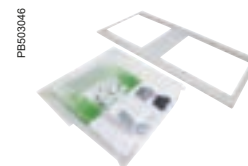
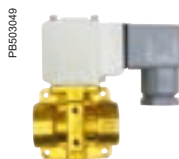


### AIR-WATER EXCHANGERS

Reference	Exchanger Battery	Fan (Fan + Capacitor)	Frontal Cover RAL 7035	Frontal Cover Stainless Steel
NSYCEW1K	NSYCUSP0034	NSYCUSP0043	NSYCUSP0079	-
NSYCEWX1K	NSYCUSP0034	NSYCUSP0043	-	NSYCUSP0094
NSYCEW1KUL	NSYCUSP0034	NSYCUSP0043	NSYCUSP0079	-
NSYCEWX1KUL	NSYCUSP0034	NSYCUSP0043	-	NSYCUSP0094
NSYCEW1K8	NSYCUSP0035	NSYCUSP0044	NSYCUSP0080	-
NSYCEWX1K8	NSYCUSP0035	NSYCUSP0044	-	NSYCUSP0095
NSYCEW1K8UL	NSYCUSP0035	NSYCUSP0044	NSYCUSP0080	-
NSYCEWX1K8UL	NSYCUSP0035	NSYCUSP0044	-	NSYCUSP0095
NSYCEW2K5	NSYCUSP0036	NSYCUSP0136	NSYCUSP0080	-
NSYCEWX2K5	NSYCUSP0036	NSYCUSP0136	-	NSYCUSP0095
NSYCEW2K5UL	NSYCUSP0036	NSYCUSP0136	NSYCUSP0080	-
NSYCEWX2K5UL	NSYCUSP0036	NSYCUSP0136	-	NSYCUSP0095
NSYCEW3K5	NSYCUSP0037	NSYCUSP0138	NSYCUSP0081	-
NSYCEWX3K5	NSYCUSP0037	NSYCUSP0138	-	NSYCUSP0096
NSYCEW3K5UL	NSYCUSP0037	NSYCUSP0138	NSYCUSP0081	-
NSYCEWX3K5UL	NSYCUSP0037	NSYCUSP0138	-	NSYCUSP0096
NSYCEW4K5	NSYCUSP0037	NSYCUSP0137	NSYCUSP0081	-
NSYCEWX4K5	NSYCUSP0037	NSYCUSP0137	-	NSYCUSP0096
NSYCEW4K5UL	NSYCUSP0037	NSYCUSP0137	NSYCUSP0081	-
NSYCEWX4K5UL	NSYCUSP0037	NSYCUSP0137	-	NSYCUSP0096
NSYCEW6K	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6K	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW6KUL	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6KUL	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW6K2P4	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6K2P4	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW10K	NSYCUSP0039	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX10K	NSYCUSP0039	NSYCUSP0137	-	NSYCUSP0098
NSYCEW10K2P4	NSYCUSP0039	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX10K2P4	NSYCUSP0039	NSYCUSP0137	-	NSYCUSP0098
NSYCEW15K	NSYCUSP0040	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX15K	NSYCUSP0040	NSYCUSP0137	-	NSYCUSP0098
NSYCEW15K2P4	NSYCUSP0040	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX15K2P4	NSYCUSP0040	NSYCUSP0137	-	NSYCUSP0098
NSYCEW2K5R	NSYCUSP0041	NSYCUSP0053	NSYCUSP0084	-

# Selection table

## ClimaSys



### AIR-WATER EXCHANGERS

Reference	Thermostat	Transformer	Solenoid Valve	Mounting Kit (instruction + full seal + screws)
NSYCEW1K	NSYCUSP0100	-	NSYCUSP0108	NSYCUSP0114
NSYCEWX1K	NSYCUSP0100	-	NSYCUSP0108	NSYCUSP0114
NSYCEW1KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0114
NSYCEWX1KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0114
NSYCEW1K8	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEWX1K8	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEW1K8UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEWX1K8UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEW2K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEWX2K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEW2K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEWX2K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEW3K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEWX3K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEW3K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEWX3K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEW4K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEWX4K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEW4K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEWX4K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEW6K	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0125
NSYCEWX6K	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0125
NSYCEW6KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0125
NSYCEWX6KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0125
NSYCEW6K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0109	NSYCUSP0125
NSYCEWX6K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0109	NSYCUSP0125
NSYCEW10K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEWX10K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEW10K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEWX10K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEW15K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEWX15K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEW15K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEWX15K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEW2K5R	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0117

# Selection table

## ClimaSys



### COOLING UNITS: SIDE MOUNTING MODELS

Reference	Evaporator Battery	Evaporator Fan (fan + capacitor)	Condenser Battery	Condenser Fan (fan + capacitor)	Compressor Kit
NSYCU300H	NSYCUSP0001	NSYCUSP0042	NSYCUSP0013	NSYCUSP0042	NSYCUSP0054
NSYCU400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCU400UL	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCUX400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCU600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCUX600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCU600UL	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCUX600UL	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCU800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCUX800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCU800UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCUX800UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCU1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1KUL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1KUL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2P4UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K2P4UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K2	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K2UL	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K2UL	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K22P4	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K22P4	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K6UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K6UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K62P4UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K62P4UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU2K	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0060
NSYCUX2K	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0060
NSYCU2KUL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0139
NSYCUX2KUL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0139
NSYCU2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0061
NSYCUX2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0061
NSYCU2K3P4UL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0062
NSYCUX2K3P4UL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0062
NSYCU3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCUX3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCU3K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCUX3K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCU4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCUX4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCU4K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCUX4K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCU6K3P4	-	-	-	-	-
NSYCU6K3P460	-	-	-	-	-
NSYCU8K3P4	-	-	-	-	-
NSYCU8K3P460	-	-	-	-	-
NSYCU10K3P4	-	-	-	-	-
NSYCU10K3P460	-	-	-	-	-
NSYCU15K3P4	-	-	-	-	-
NSYCU15K3P460	-	-	-	-	-

# Selection table

## ClimaSys

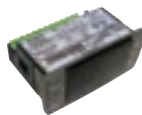
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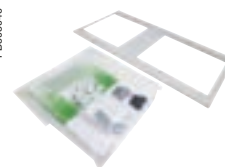
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PB503039



PB503046



### COOLING UNITS & SIDE MOUNTING MODELS

Reference	Frontal Cover RAL 7035	Frontal Cover Stainless Steel	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCU300H	NSYCUSP0066	-	NSYCUSP0099	-	NSYCUSP0118
NSYCU400	NSYCUSP0067	-	NSYCUSP0099	-	NSYCUSP0126
NSYCU400UL	NSYCUSP0067	-	NSYCUSP0144	-	NSYCUSP0126
NSYCUX400	-	NSYCUSP0085	NSYCUSP0099	-	NSYCUSP0126
NSYCU600	NSYCUSP0068	-	NSYCUSP0099	-	NSYCUSP0127
NSYCUX600	-	NSYCUSP0086	NSYCUSP0099	-	NSYCUSP0127
NSYCU600UL	NSYCUSP0068	-	NSYCUSP0144	-	NSYCUSP0127
NSYCUX600UL	-	NSYCUSP0086	NSYCUSP0144	-	NSYCUSP0127
NSYCU800	NSYCUSP0069	-	NSYCUSP0099	-	NSYCUSP0119
NSYCUX800	-	NSYCUSP0087	NSYCUSP0099	-	NSYCUSP0119
NSYCU800UL	NSYCUSP0069	-	NSYCUSP0144	-	NSYCUSP0119
NSYCUX800UL	-	NSYCUSP0087	NSYCUSP0144	-	NSYCUSP0119
NSYCU1K	NSYCUSP0069	-	NSYCUSP0099	-	NSYCUSP0119
NSYCUX1K	-	NSYCUSP0087	NSYCUSP0099	-	NSYCUSP0119
NSYCU1KUL	NSYCUSP0069	-	NSYCUSP0144	-	NSYCUSP0119
NSYCUX1KUL	-	NSYCUSP0087	NSYCUSP0144	-	NSYCUSP0119
NSYCU1K2P4	NSYCUSP0069	-	NSYCUSP0099	NSYCUSP0101	NSYCUSP0119
NSYCUX1K2P4	-	NSYCUSP0087	NSYCUSP0099	NSYCUSP0101	NSYCUSP0119
NSYCU1K2P4UL	NSYCUSP0069	-	NSYCUSP0144	NSYCUSP0173	NSYCUSP0119
NSYCUX1K2P4UL	-	NSYCUSP0087	NSYCUSP0144	NSYCUSP0173	NSYCUSP0119
NSYCU1K2	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX1K2	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU1K2UL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX1K2UL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU1K22P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0102	NSYCUSP0120
NSYCUX1K22P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0102	NSYCUSP0120
NSYCU1K6	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX1K6	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU1K6UL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX1K6UL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU1K62P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0103	NSYCUSP0120
NSYCUX1K62P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0103	NSYCUSP0120
NSYCU1K62P4UL	NSYCUSP0070	-	NSYCUSP0144	NSYCUSP0174	NSYCUSP0120
NSYCUX1K62P4UL	-	NSYCUSP0088	NSYCUSP0144	NSYCUSP0174	NSYCUSP0120
NSYCU2K	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX2K	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU2KUL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX2KUL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU2K3P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0104	NSYCUSP0120
NSYCUX2K3P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0104	NSYCUSP0120
NSYCU2K3P4UL	NSYCUSP0070	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0120
NSYCUX2K3P4UL	-	NSYCUSP0088	NSYCUSP0144	NSYCUSP0147	NSYCUSP0120
NSYCU3K3P4	NSYCUSP0071	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCUX3K3P4	-	NSYCUSP0089	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCU3K3P4UL	NSYCUSP0071	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCUX3K3P4UL	-	NSYCUSP0089	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCU4K3P4	NSYCUSP0071	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCUX4K3P4	-	NSYCUSP0089	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCU4K3P4UL	NSYCUSP0071	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCUX4K3P4UL	-	NSYCUSP0089	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCU6K3P4	-	-	NSYCUSP0099	-	-
NSYCU6K3P460	-	-	NSYCUSP0099	-	-
NSYCU8K3P4	-	-	NSYCUSP0099	-	-
NSYCU8K3P460	-	-	NSYCUSP0099	-	-
NSYCU10K3P4	-	-	NSYCUSP0099	-	-
NSYCU10K3P460	-	-	NSYCUSP0099	-	-
NSYCU15K3P4	-	-	NSYCUSP0099	-	-
NSYCU15K3P460	-	-	NSYCUSP0099	-	-



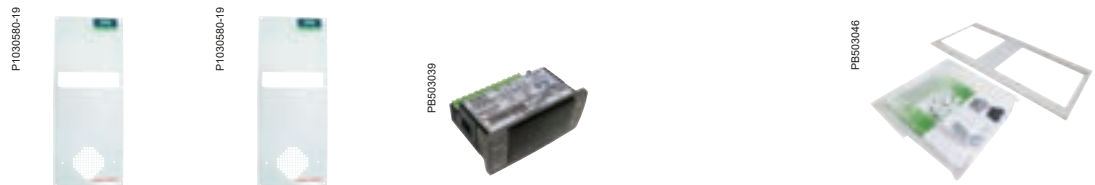
# Selection table

## ClimaSys



### COOLING UNITS: ROOF MOUNT

Reference	Evaporator battery	Evaporator fan (fan + capacitor)	Condenser battery	Condenser fan (fan + capacitor)	Compressor kit
NSYCU400R	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0064
NSYCUX400R	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0064
NSYCU400RUL	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0172
NSYCU800R	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCUX800R	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCU800RUL	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCU1K2R	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCUX1K2R	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCU1K2RUL	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCU1K5R	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCUX1K5R	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCU1K5RUL	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCU2K3P4R	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0061
NSYCUX2K3P4R	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0061
NSYCU2K3P4RUL	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0062
NSYCU2KR	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0060
NSYCUX2KR	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0060
NSYCU3K3P4R	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCUX3K3P4R	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCU3K3P4RUL	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCU4K3P4R	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063
NSYCUX4K3P4R	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063
NSYCU4K3P4RUL	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063



Reference	Frontal cover RAL 7035	Frontal cover stainless steel	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCU400R	NSYCUSP0072	-	NSYCUSP0099	-	NSYCUSP0121
NSYCUX400R	-	NSYCUSP0090	NSYCUSP0099	-	NSYCUSP0121
NSYCU400RUL	NSYCUSP0072	-	NSYCUSP0144	-	NSYCUSP0121
NSYCU800R	NSYCUSP0073	-	NSYCUSP0099	-	NSYCUSP0122
NSYCUX800R	-	NSYCUSP0091	NSYCUSP0099	-	NSYCUSP0122
NSYCU800RUL	NSYCUSP0073	-	NSYCUSP0144	-	NSYCUSP0122
NSYCU1K2R	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX1K2R	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU1K2RUL	NSYCUSP0074	-	NSYCUSP0144	-	NSYCUSP0129
NSYCU1K5R	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX1K5R	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU1K5RUL	NSYCUSP0074	-	NSYCUSP0144	-	NSYCUSP0129
NSYCU2K3P4R	NSYCUSP0074	-	NSYCUSP0099	NSYCUSP0104	NSYCUSP0129
NSYCUX2K3P4R	-	NSYCUSP0092	NSYCUSP0099	NSYCUSP0104	NSYCUSP0129
NSYCU2K3P4RUL	NSYCUSP0074	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0129
NSYCU2KR	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX2KR	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU3K3P4R	NSYCUSP0075	-	NSYCUSP0099	NSYCUSP0106	NSYCUSP0123
NSYCUX3K3P4R	-	NSYCUSP0093	NSYCUSP0099	NSYCUSP0106	NSYCUSP0123
NSYCU3K3P4RUL	NSYCUSP0075	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0123
NSYCU4K3P4R	NSYCUSP0075	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0123
NSYCUX4K3P4R	-	NSYCUSP0093	NSYCUSP0099	NSYCUSP0105	NSYCUSP0123
NSYCU4K3P4RUL	NSYCUSP0075	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0123

# Selection table

## ClimaSys



### COOLING UNITS HEAVY DUTY

Reference	Evaporator battery	Evaporator fan (fan + capacitor)	Condenser battery	Condenser fan (fan + capacitor)	Compressor kit
NSYCUHD400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0158	NSYCUSP0042	NSYCUSP0055
NSYCUHD600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0159	NSYCUSP0044	NSYCUSP0056
NSYCUHD800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0160	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0161	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0161	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0162	NSYCUSP0138	NSYCUSP0059
NSYCUHD1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0162	NSYCUSP0138	NSYCUSP0059
NSYCUHD2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0163	NSYCUSP0138	NSYCUSP0061
NSYCUHD3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0164	NSYCUSP0137	NSYCUSP0062
NSYCUHD4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0165	NSYCUSP0137	NSYCUSP0063



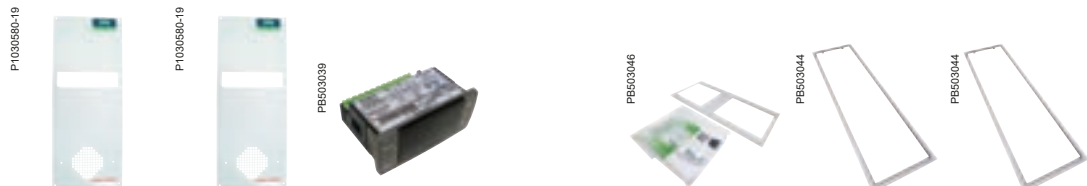
Reference	Frontal cover RAL 7035	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCUHD400	NSYCUSP0167	NSYCUSP0100	-	NSYCUSP0153
NSYCUHD600	NSYCUSP0168	NSYCUSP0100	-	NSYCUSP0154
NSYCUHD800	NSYCUSP0169	NSYCUSP0100	-	NSYCUSP0155
NSYCUHD1K	NSYCUSP0169	NSYCUSP0100	-	NSYCUSP0155
NSYCUHD1K2P4	NSYCUSP0169	NSYCUSP0100	NSYCUSP0101	NSYCUSP0155
NSYCUHD1K6	NSYCUSP0170	NSYCUSP0100	-	NSYCUSP0156
NSYCUHD1K62P4	NSYCUSP0170	NSYCUSP0100	NSYCUSP0103	NSYCUSP0156
NSYCUHD2K3P4	NSYCUSP0170	NSYCUSP0100	NSYCUSP0104	NSYCUSP0156
NSYCUHD3K3P4	NSYCUSP0171	NSYCUSP0100	NSYCUSP0105	NSYCUSP0157
NSYCUHD4K3P4	NSYCUSP0171	NSYCUSP0100	NSYCUSP0105	NSYCUSP0157

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## ClimaSys



COOLING UNITS SLIM					
Reference	Evaporator battery	Evaporator fan (fan + capacitor)	Condenser battery	Condenser fan (fan + capacitor)	Compressor kit
NSYCUS1K1UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUSX1K1UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUS1K12P4UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUSX1K12P4UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUS1K5UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUSX1K5UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUS1K52P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUSX1K52P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUS2KUL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0139
NSYCUSX2KUL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0139
NSYCUS2K3P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0062
NSYCUSX2K3P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0062
NSYCUS2K5UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0140
NSYCUSX2K5UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0140
NSYCUS2K53P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0062
NSYCUSX2K53P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0062
NSYCUS3K2UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0141
NSYCUSX3K2UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0141
NSYCUS3K23P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0063
NSYCUSX3K23P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0063



Reference	Frontal cover RAL 7035	Frontal cover stainless steel	Thermostat	Transformer	Mounting kit (instruction + full seal + screws)	Metal frame kit (frame + seal + screws)	Metal frame kit stainless steel (frame + seal + screws)
NSYCUS1K1UL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K1UL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K12P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0145	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K12P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0145	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K5UL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K5UL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K52P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0146	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K52P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0146	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2KUL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2KUL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K3P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2K3P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0147	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K5UL	NSYCUSP0143	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2K5UL	-	NSYCUSP0151	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K53P4UL	NSYCUSP0143	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2K53P4UL	-	NSYCUSP0151	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS3K2UL	NSYCUSP0143	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX3K2UL	-	NSYCUSP0151	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS3K23P4UL	NSYCUSP0143	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX3K23P4UL	-	NSYCUSP0151	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166

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