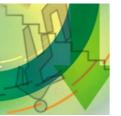
OMRON

Inverters

Product Range Guide



Omron's recently extended SYSDRIVE inverter range has been designed with reliability, ease of use, performance and functionality in mind, providing cost effective >solutions to all variable speed and torque requirements. The 3G3PV is a basic general purpose inverter, designed for variable torque applications. Specifically for Heating,

Ventilating, Airconditioning, Pumps and Fans. The 3G3RV inverter is an advanced general purpose inverter, designed for variable and constant torque applications, requiring a high starting torque and high precision speed control.

Professional AC Frequency Inverters to suit your application



 Conveyors
 Transfer systems Agitators Separators Simple mixers
 Electric shutters

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TRY STARE C.Sur



Product Range Guide









As one of the world's most prominent industrial automation suppliers, Omron stands out as a leading investor in R&D, and continues to supply the global automation market with some of the most innovative products currently available. The present Omron product range contains well over 100,000 product lines, from miniature switches and relays, to complete factory automation systems. And of course, all Omron products feature advanced design, giving you the performance you need today, as well as continued compatibility and peace of mind for the future.

 Heating Ventilating
 Air conditioning Industrial fans Elevators Industrial pumps Cranes Hoisting Extruders General conveyors · General machinery 3G3 Elevators Craine hoist drives Palletizing Cooling Spindel drives Winding machines A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER General conveyors General machinery This new series of Product Range Guides showcases the Omron range in separate, easy-to-use brochures. With no less than sixteen product guides, the series allows a quick and informative overview, by product group, of the Handling
 Conveyor belts complete Omron industrial range. Simple winders
 Mixers Drilling machines Filling machines Elevators

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INVERTERS

0.1 to 4 kW inverter

377

CALL THE LEF



The OMRON range of high performance motion control products are designed to offer high quality, flexible and reliable products to market. The range spans simple micro drives to high performance flux vector inverters to servo and positioning modules in one unit. These are linked with a whole host of control methodology and operator interfaces to suit any requirement.

Inverter overview

The modern industrial environment places the most stringent demands on production at all levels. All of the drive products are manufactured to the highest standards ensuring the ultimate product for you the customer. There is a Sysdrive inverter to suit all requirements, from the 3G3JV microdrive through to the 3G3RV aimed primarily at the variable torque market, to the 3G3FV flux vector inverter, produced to perform with DC drive performance without the drawbacks.

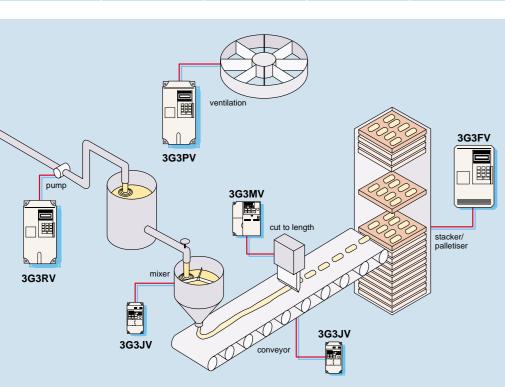
Typical applications	Fan/pump	Conveyor	Mixers	Hoists	Tension control
3G3JV	Up to 4 kW				
3G3PV	Up to 160 kW				
3G3MV	Up to 7.5 kW				
3G3RV	Up to 160 kW				
3G3FV	Up to 300 kW				

Inverter series Typical applications

Speed control

Torque control

Position control



Sysdrive Selector



A new CD based tool to provide extensive information relating to selection, installation and use of Variable Speed Drives. Also contained are CAD files, application stories and Frequently Asked Questions.

Sysdrive Configurator



The configurator tool provides a simple to use Windows upload/ download package to all Omron Sysdrive inverters. Files can be easily saved and downloaded to decrease commissioning time and remove chances of errors in setup occurring.

High cost effectiveness

• For wide range of applications

Benefits of using Omron inverter drives

 Flexible User friendly Adaptable worldwide

High quality

- Energy saving
- Application Specific Software

Features	 V/F control. Simple configuration. Compact size. In-built operator. On-board potentiometer. Overtorque detection. Skip frequencies. Motor thermal protection. S Curve function. Easy maintenance. 	
Capacity (kW)	0.1 to 4 kW	
Supply voltage (VAC)	200 to 230 VAC, 1 phase/3 ph 380 to 460 VAC, 3 phase	
Supply frequency (Hz)	50/60 Hz	
Allowable voltage fluctuation (%)	-15% to +10%	
Frequency control range (Hz)	0.1 to 400 Hz	
Output frequency resolution (Hz)	0.01 Hz	
Voltage frequency curve	Configurable V/F	
Carrier frequency (Hz)	2.5 to 10 kHz	
Communication	Modbus (option)	
Analogue output (0-10 VDC)	Yes	
Preset speeds	8	
Frequency setting signal	0 to 10 VDC 4 to 20 mA 0 to 20 mA	
Acceleration/Deceleration time	0.1 to 999 sec.	
Approved standards and markings	CE, UL, cUL	

simpl	e drives	ad	high f	
	3G3PV - V/f control	3G3MV - sensorless vector	3G3RV - sensorless vector	3G3FV - clo
	0.4 to 160 kW inverter	0.1 to 7.5 kW inverter	0.4 to 160 kW inverter	0.4 to
	 V/F control. Pl control. Standard LED, Optional LCD operator. 7 configurable digital inputs. 3 configurable digital outputs. Low audible noise. Powerful application oriented functionality. High slip braking. Easy maintenance. Energy saving function. Speed search function. Connectable DC reactor and 12-pulse transformer. 	 Open loop vector operation. PID control. In-built operator/copy unit. Compact size. 7 configurable digital inputs. 3 configurable digital outputs. On-board potentiometer. Skip frequencies. S Curve function. Energy saving function. Compact size. 	 Sensorless Current Vector Control or V/f with or without encoder. PID control. Standard LED, Optional LCD operator. 7 configurable digital inputs. 3 configurable digital outputs. Static and dynamic autotuning. Powerful application oriented functionality. High slip braking. Easy maintenance. Energy saving function. Speed search function. Connectable DC reactor and 12-pulse transformer. 	 Simple v/f/open loop/closed PID control. Clear LCD display, multilingu Fieldbus options: DeviceNet, Modbus built-in as standard Powerful application oriente Auto tuning system. Zero servo function. Holding torque. Energy saving function.
	0.4 to 160 kW	0.1 to 7.5 kW	0.4 to 160 kW	0.4 to 300 kW
	200 to 240 VAC, 3 phase 380 to 480 VAC, 3 phase	200 to 230 VAC, 1 phase/3 phase 380 to 460 VAC, 3 phase	200 to 240 VAC, 3 phase 380 to 480 VAC, 3 phase	200 to 240 VAC, 3 phase 380 to 460 VAC, 3 phase
	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
	-15% to +10%	-15% to +10%	-15% to +10%	-15% to +10%
	0.1 to 120 Hz	0.1 to 400 Hz	0.1 to 400 Hz	0.1 to 400 Hz
	0.001 Hz	0.01 Hz	0.001 Hz	0.01 Hz
	14 fixed V/F patterns, 1 configurable	Configurable V/F	15 fixed V/F patterns, 1 configurable	15 fixed V/f patterns , 1 configu
	2 to 15 kHz	2.5 to 10 kHz (up to 15 kHz optimal)	2 to 15 kHz	0.4 to 15 kHz
	Modbus (standard) DeviceNet (option)	Modbus (standard) DeviceNet (option)	Modbus (standard) DeviceNet (option)	Modbus (standard) DeviceNet (option)
	2 available, optional 4 to 20 mA	Yes	2, from -10 to 10VDC or 4 to 20 mA	Yes
	16	16	16	8
	0 to 10 VDC 4 to 20 mA	0 to 10 VDC 4 to 20 mA, 0 to 20 mA Pulse train input	-10 to 10 VDC 4 to 20 mA Pulse train input	0 to ±10 VDC 0 to 10 VDC 4 to 20 mA
	0.0 to 6,000 sec.	0.1 to 6,000 sec.	0.0 to 6,000 sec.	0.1 to 6,000 sec.
	CE, UL, cUL	CE, UL, cUL	CE, UL, cUL	CE, UL, cUL

h function drives

4 to 300 kW inverter



sed loop flux vector.

ingual. Net, Profibus DP, InterbusS.

ented functionality.

ordering method
3G3 RV A 4 370
Series JV PV MV RV FV
Installation A = IP20 (up to 15 kW) B = IP00 (above 15 kW)
Input voltage B = 200 - 230 VAC, 1 Phase 2 = 200 - 230 VAC, 3 Phase 4 = 380 - 460 VAC, 3 Phase
kW rating 001 = 0.1 002 = 0.2 004 = 0.4 007 = 0.7 015 = 1.5 022 = 2.2 030 = 3.0 037 = 3.7 040 = 4.0 JV model
055 = 5.5 075 = 7.5 MV model
110 = 11 150 = 15 185 = 18.5 220 = 22 300 = 30 370 = 37
450 = 45 550 = 55 750 = 75 900 = 90 RV and PV only 11k = 110
13k = 130 RV and PV only 16k = 160
18k = 185
22k = 220 30k = 300 FV model

JV & MV Model

- N = No potentiometer
- B = Blank cover
- Z = No heatsink

PV & RV Model

E = European model with CE, UL and cUL -

FV Model

CUE = European model with CE, UL and cUL