

3G3MX2

Inverter selection guide

- Single phase 200vac to 2.2kW, and three phase 400vac to 15kW
- Sensorless vector control
- Safety embedded
- Operator built
- Modbus in-built as standard
- Drive programming environment
- Simple positioning
- Fieldbus option cards available
- Dual rating



Type designation

3 G 3 M X 2 - A B 0 0 2 - E □

MX2 series

- A: IP20
- D: IP54 (includes class 2 EMC filter)

- Voltage:
- B: Single-phase 200 VAC
 - 2: Three-phase 200 VAC
 - 4: Single-phase 400 VAC

C: IP54 ready for customization

C: Europe standard

- Max. applicable motor output
- 002: 0,2 kW
 - 150: 15,0 kW



Inverter specification table ^{yes}

Voltage	Motor kW [HD/ ND]	Output current A [HD/ ND]	Drive model	W [mm]	H [mm]	D [mm]	List price	Filter model	List price	Total list price
200	0.1/0.2	1.0/1.2	3G3MX2AB001E	68	128	109		AXFIM1010RE		
200	0.2/0.4	1.6/1.9	3G3MX2AB002E					AXFIM1010RE		
200	0.4/0.55	3.0/3.5	3G3MX2AB004E			AXFIM1010RE				
200	0.75/1.1	5.0/6.0	3G3MX2AB007E	108	123	123	AXFIM1014RE			
200	1.5/2.2	8.0/9.6	3G3MX2AB015E				AXFIM1024RE			
200	2.2/3.0	11.0/12.0	3G3MX2AB022E				AXFIM1024RE			
400	0.4/0.75	1.8/2.1	3G3MX2A4004E	108	128	144	AXFIM3005RE			
400	0.75/1.5	3.4/4.1	3G3MX2A4007E				AXFIM3005RE			
400	1.5/2.2	4.8/5.4	3G3MX2A4015E				AXFIM3010RE			
400	2.2/3.0	5.5/6.9	3G3MX2A4022E	140	260	171	AXFIM3010RE			
400	3.0/4.0	7.2/8.8	3G3MX2A4030E				AXFIM3010RE			
400	4.0/5.5	9.2/11.1	3G3MX2A4040E				AXFIM3014RE			
400	5.5/7.5	14.8/17.5	3G3MX2A4055E	180	296	175	AXFIM3030RE			
400	7.5/11	18.0/23.0	3G3MX2A4075E				AXFIM3030RE			
400	11.0/15.0	24.0/31.0	3G3MX2A4110E				AXFIM3050RE			
400	15.0/18.5	31.0/38.0	3G3MX2A4150E				AXFIM3050RE			

Inverter rating:

CT or Heavy Duty (HD) = 150% overload, suitable for all applications excluding fan and pump applications

VT or Normal Duty (ND) = 120% overload, suitable for fan and pump applications

Three phase 200vac models available

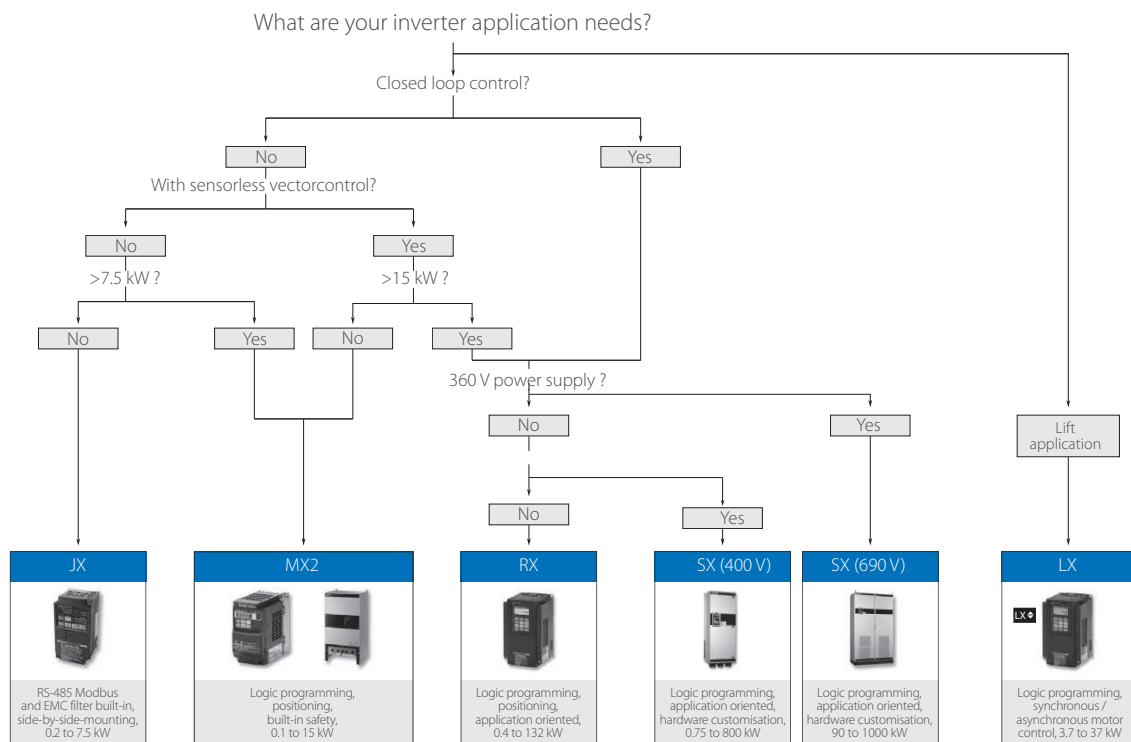
IP54 models available

Options		
Part number	Description	List price
CX DRIVE	PC programming software for all Omron inverter and servo series	
AXCUSBM002E	Programming cable [USB]	
AXOP05E	LCD remote mounting operator	
3G3AXCAJOP300EE	Remote operator connecting cable	
3G3AXOP01	LED remote mounting operator	
4XKITMINI	Mounting kit for LED operator	
3G3AXMX2EIO15E	MX2 additional IO card	
3G3AXMX2ECT	MX2 EtherCAT option card	
3G3AXMX2EIPA	MX2 Ethernet IP option card	
3G3AXMX2DRTE	MX2 DeviceNet option card	
3G3AXMX2PRTE	MX2 Profibus option card	

Prices updated:

Inverter simple product selection chart

Use the following chart to select the correct inverter series.



Explanatory notes

V/F control – a simple method of controlling a motor. A voltage and frequency output is applied to the motor in a theoretically linear manner. The V/F profile can be tuned to suit different applications. This form of control is suitable for a wide range of simple speed control applications, in particular fans and pumps, but is not suitable for applications requiring low speed or high torque applications, or controlling vertical loads.

Sensorless or open loop vector control – in this mode the inverter will actively control the current delivered to the motor, resulting in improved control of the motor in terms of speed regulation and low speed torque. No encoder device is required on the motor, and a simple autotune routine must be followed to ensure certain key motor data is understood by the inverter.