

MX2 IP54 INVERTER

Flexibility and robust design for standalone solutions



» Robust metal housing

» Freedom for user customization

» Built-in logic programming

realizing

MX2 IP54

Robust and flexible inverter...

The MX2 IP54 inverter is designed in a robust housing for distributed installation. A built-in class 1 EMC filter, the easy wiring access and the front-mounted USB connector make installation and commissioning simple. The freedom for users to customize the hardware by adding accessories provides hardware flexibility whilst the built-in logic programming is ideal when designing decentralized projects. Finally, by using the standard MX2 series functionality and communication option boards, the MX2 IP54 is the perfect choice for your standalone inverter solutions.

- Modbus RS485 built-in
- Option boards for EtherCAT, DeviceNet, PROFIBUS, CompoNet, ML-II and EtherNet/IP

Industrial communication networks

Front-mounted USB connector

- Easy access for set-up and commissioning
- Mini-B type connector same as standard MX2 series



6 access holes for application wiring.
Ideal for power supply, motor power, I/O and communication cables.



Note: The cable glands are not delivered with the MX2 IP54 housing.

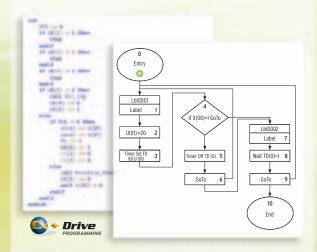


... born to drive machines

The MX2 is specifically designed to drive machines. It has been developed to harmonise advanced motor and machine control. Thanks to its advanced design and algorithms the MX2 provides smooth motor control down to zero speed, plus precise operation for fast cyclic operations and torque control capability in open loop. The MX2 also gives you comprehensive functionality for machine control such as positioning, speed synchronisation and logic programming. The MX2 is fully integrated within the Omron Sysmac automation platform.

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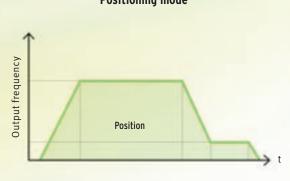


Built-in logic programming

- Drive Programming functionality for decentralized machine control
- Flow chart and text editor programming languages
- 5 tasks running in parallel
- Up to 1000 lines per program



Positioning mode



Positioning functionality

- Simple positioning without the need of an external controller
- Selection of up to 8 pre-set positions plus homing function
- Switching between speed and position control modes



Product overview

MX2 IP54 features

- Power range from 0.1 to 15 kW
- Built-in Class 1 EMC filter
- Ready to add hardware accessories
- 200% starting torque

- Torque control in open loop
- Double rating VT 120%/1 min and CT 150%/ 1 min
- IM and PM motor control
- Built-in logic programming

Reference list

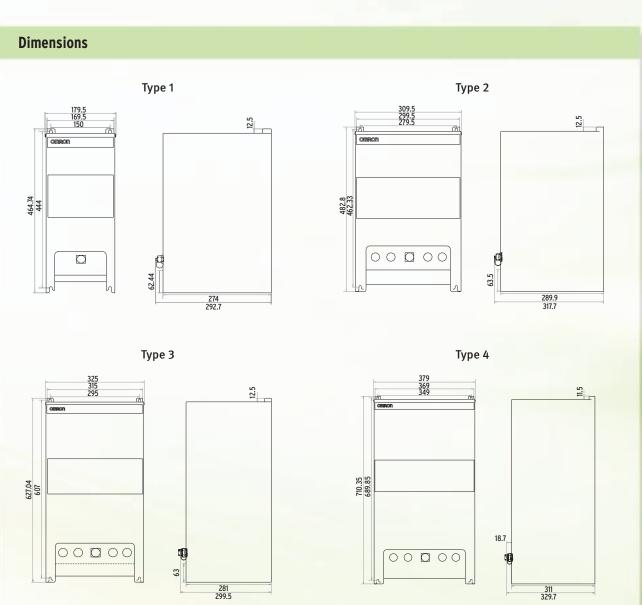
Specifications					Model		
Voltage class	Constant torque		Variable torque		Model		Hausa funa
	Max motor kW	Rated current A	Max motor kW	Rated current A	Narrow housing type	Ready for user customization	House type
Single-phase 200 V	0.1	1.0	0.2	1.2	3G3MX2-DB001-E	3G3MX2-DB001-EC	Type 1 (ending with -E) Type 2 (ending with -EC)
	0.2	1.6	0.4	1.9	3G3MX2-DB002-E	3G3MX2-DB002-EC	
	0.4	3.0	0.55	3.5	3G3MX2-DB004-E	3G3MX2-DB004-EC	
	0.75	5.0	1.1	6.0		3G3MX2-DB007-EC	
	1.5	8.0	2.2	9.6		3G3MX2-DB015-EC	
	2.2	11.0	3.0	12.0		3G3MX2-DB022-EC	
Three-phase 200 V	0.1	1.0	0.2	1.2	3G3MX2-D2001-E	3G3MX2-D2001-EC	
	0.2	1.6	0.4	1.9	3G3MX2-D2002-E	3G3MX2-D2002-EC	
	0.4	3.0	0.55	3.5	3G3MX2-D2004-E	3G3MX2-D2004-EC	
	0.75	5.0	1.1	6.0	3G3MX2-D2007-E	3G3MX2-D2007-EC	
	1.5	8.0	2.2	9.6		3G3MX2-D2015-EC	
	2.2	11.0	3.0	12.0		3G3MX2-D2022-EC	
	3.7	17.5	5.5	19.6		3G3MX2-D2037-EC	
	5.5	25.0	7.5	30.0		3G3MX2-D2055-EC	Type 3
	7.5	33.0	11	40.0		3G3MX2-D2075-EC	
	11	47.0	15	56.0		3G3MX2-D2110-EC	Type 4
	15	60.0	18.5	69.0		3G3MX2-D2150-EC	
Three-phase 400 V	0.4	1.8	0.75	2.1		3G3MX2-D4004-EC	Туре 2
	0.75	3.4	1.5	4.1		3G3MX2-D4007-EC	
	1.5	4.8	2.2	5.4		3G3MX2-D4015-EC	
	2.2	5.5	3.0	6.9		3G3MX2-D4022-EC	
	3.0	7.2	4.0	8.8		3G3MX2-D4030-EC	
	4.0	9.2	5.5	11.1		3G3MX2-D4040-EC	
	5.5	14.8	7.5	17.5		3G3MX2-D4055-EC	Type 3
	7.5	18.0	11	23.0		3G3MX2-D4075-EC	
	11	24.0	15	31.0		3G3MX2-D4110-EC	Type 4
	15	31.0	18.5	38.0		3G3MX2-D4150-EC	

Note: The models ready for user customization are delivered with the front panel holes and with the DIN rail inside housing.

Communication option boards and accessories

Description	Model	
Profibus option board	3G3AX-MX2-PRT	
DeviceNet option board	3G3AX-MX2-DRT	
EtherCAT option board	3G3AX-MX2-ECT	
CompoNet option board	3G3AX-MX2-CRT	
MECHATROLINK-II option board	3G3AX-MX2-MRT	
EtherNet/IP option board	3G3AX-MX2-EIP	
PC configuration cable (mini USB to USB connector cable)	AX-CUSBM002-E	





Software						
Description	Model					
Configuration and monitoring software tool	CX-Drive					
Software including CX-Drive	CX-One					
Software tool for Energy Saving calculation	€Saver					



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Automation Systems

- Programmable logic controllers (PLC) Human machine interfaces (HMI) Remote I/O
- Industrial PC's Software

Motion & Drives

 \bullet Motion controllers $\,\bullet$ Servo systems $\,\bullet$ Inverters $\,\bullet$ Robots

Control Components

- Temperature controllers Power supplies Timers Counters Programmable relays
- Digital panel indicators Electromechanical relays Monitoring products Solid-state relays
- Limit switches Pushbutton switches Low voltage switch gear

Sensing & Safety

- Photoelectric sensors Inductive sensors Capacitive & pressure sensors
- Cable connectors Displacement & width-measuring sensors Vision systems
- Safety networks Safety sensors Safety units/relay units Safety door/guard lock switches