PRODUCT NEWS

Product Discontinuation Notice

Issue Date
March, 2023

Omron is announcing the discontinuation of the MX2-V1 (version 1) and introducing the MX2-V2 (version 2)

Due to scarcity of components that are affecting manufacturing Omron will be discontinuing the MX2-V1 and replacing it with the MX2-V2.

Omron has procured as many components as available and will fulfill open order commitments. For new orders factories will work to fulfill these orders if we have the components available.

Customers should move the MX2-V2 for new orders as it is the direct replacement for the MX2-V1. MX2-V1 lead times are still running at 180 days, the MX2-V2 is expected to be 120 days. MX2-V2 shipments are expected to come in quicker than MX2-V1 drives that are ordered now.

Product Discontinuation	Recommended Replacement
Inverter **3G3MX2- []-V1**	Inverter **3G3MX2- []-V2** Available to order soon, shipments starting in July 2023
CompoNet Communication Unit **3G3AX-MX2-CRT-E**	**No recommended replacement**
DeviceNet Communication Unit **3G3AX-MX2-DRT-E**	**No recommended replacement**

[Final order entry date]

The February 17th, 2023 (conditional on components availability).

[Date of The Last Shipping]

The end of September 2023.

[Scheduled date of maintenance close]

The end of March 2031.

[Caution on recommended replacement]

1. CompoNet Communication Unit and DeviceNet Communication Unit are not supported 3G3MX2-[]-V2.
2. The depth dimension increases by 10mm when the EtherCAT communication unit is connected.
3. Safety input terminals are newly added.
4. High-frequency mode is abolished, and output frequency range is extended to 0.01 to 590Hz.
5. 3G3MX2-[]-V2 can be operated with jog dial.
6. 3G3MX2-[]-V2 has increased the number of digits of data display from 4digits of 3G3MX2-[]-V1 to 5digits.
7. Several parameters are changed or added.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
3G3MX2-[]-V2	**	*	*	**	**	*	--

** : Compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement*1
3G3MX2-A2001-V1	3G3MX2-A2001-V2
3G3MX2-A2002-V1	3G3MX2-A2002-V2
3G3MX2-A2004-V1	3G3MX2-A2004-V2
3G3MX2-A2007-V1	3G3MX2-A2007-V2
3G3MX2-A2015-V1	3G3MX2-A2015-V2
3G3MX2-A2022-V1	3G3MX2-A2022-V2
3G3MX2-A2037-V1	3G3MX2-A2037-V2
3G3MX2-A2055-V1	3G3MX2-A2055-V2
3G3MX2-A2075-V1	3G3MX2-A2075-V2
3G3MX2-A2110-V1	3G3MX2-A2110-V2
3G3MX2-A2150-V1	3G3MX2-A2150-V2
3G3MX2-A4004-V1	3G3MX2-A4004-V2
3G3MX2-A4007-V1	3G3MX2-A4007-V2
3G3MX2-A4015-V1	3G3MX2-A4015-V2
3G3MX2-A4022-V1	3G3MX2-A4022-V2
3G3MX2-A4030-V1	3G3MX2-A4030-V2
3G3MX2-A4040-V1	3G3MX2-A4040-V2
3G3MX2-A4055-V1	3G3MX2-A4055-V2
3G3MX2-A4075-V1	3G3MX2-A4075-V2
3G3MX2-A4110-V1	3G3MX2-A4110-V2
3G3MX2-A4150-V1	3G3MX2-A4150-V2
3G3MX2-AB001-V1	3G3MX2-AB001-V2
3G3MX2-AB002-V1	3G3MX2-AB002-V2
3G3MX2-AB004-V1	3G3MX2-AB004-V2
3G3MX2-AB007-V1	3G3MX2-AB007-V2
3G3MX2-AB015-V1	3G3MX2-AB015-V2
3G3MX2-AB022-V1	3G3MX2-AB022-V2
3G3AX-MX2-CRT-E	No recommended replacement
3G3AX-MX2-DRT-E	No recommended replacement

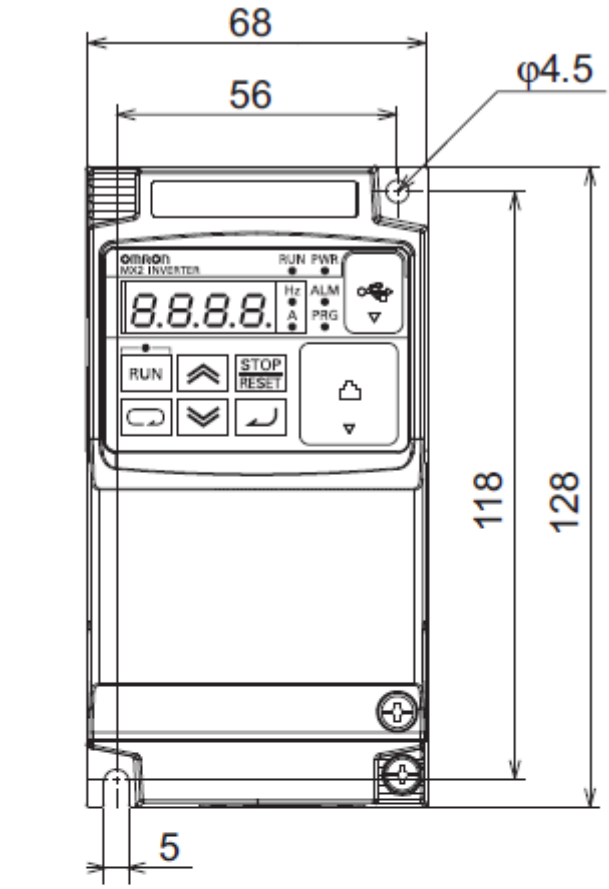
*1 3G3MX2-[]-V2 is coming soon.

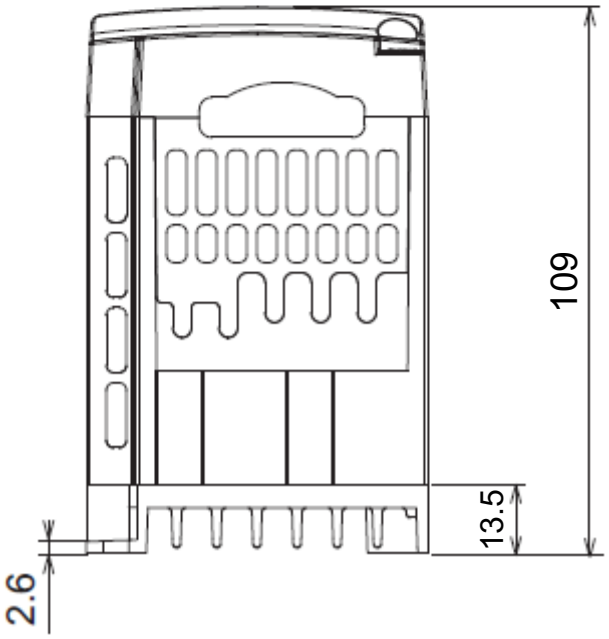
[Body color]

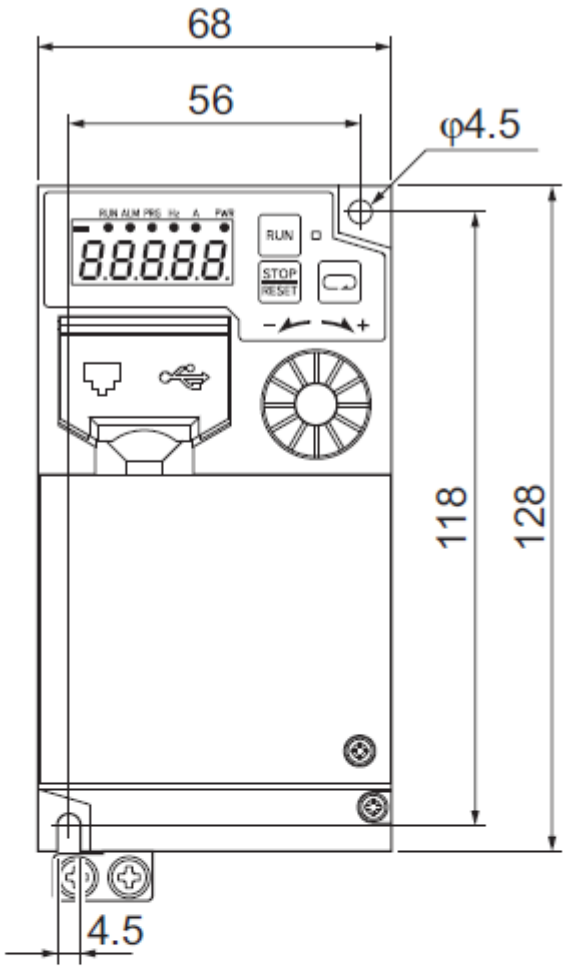
Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 Black	**3G3MX2-[]-V2** Black

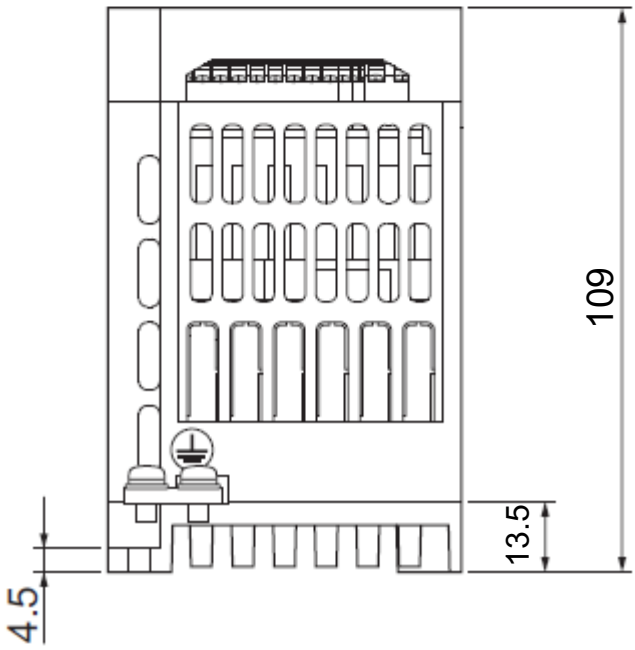
[Dimensions & Mounting dimensions]

Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 A2001/A2002/AB001/AB002	**3G3MX2-[]-V2** A2001/A2002/AB001/AB002

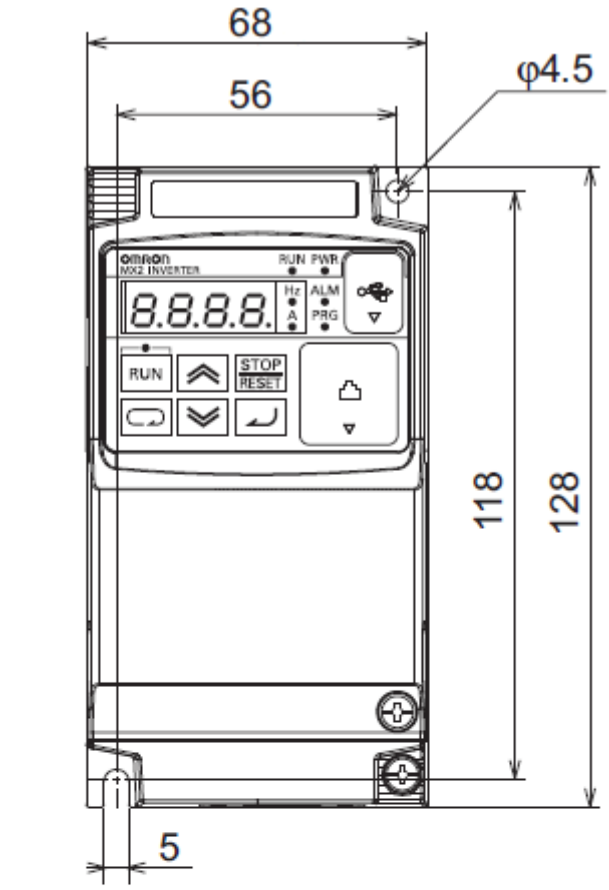


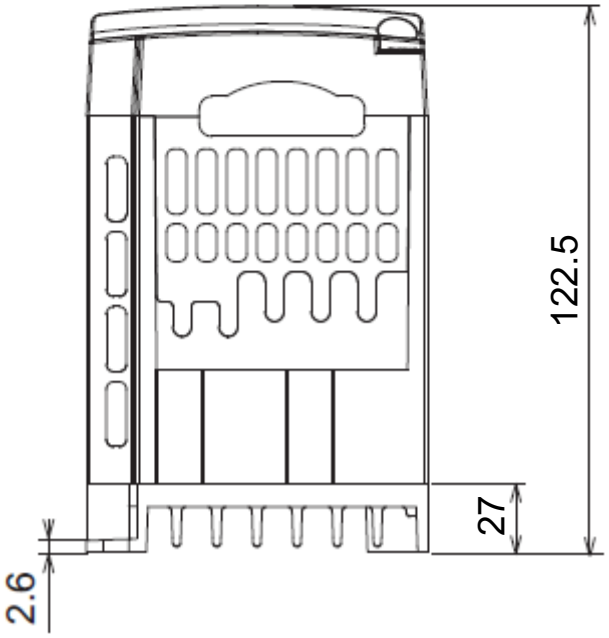


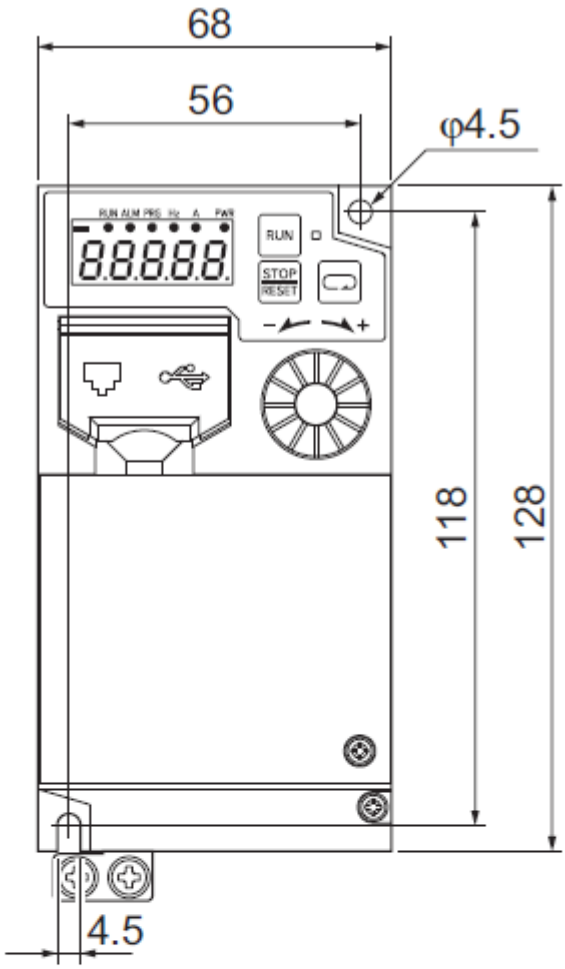


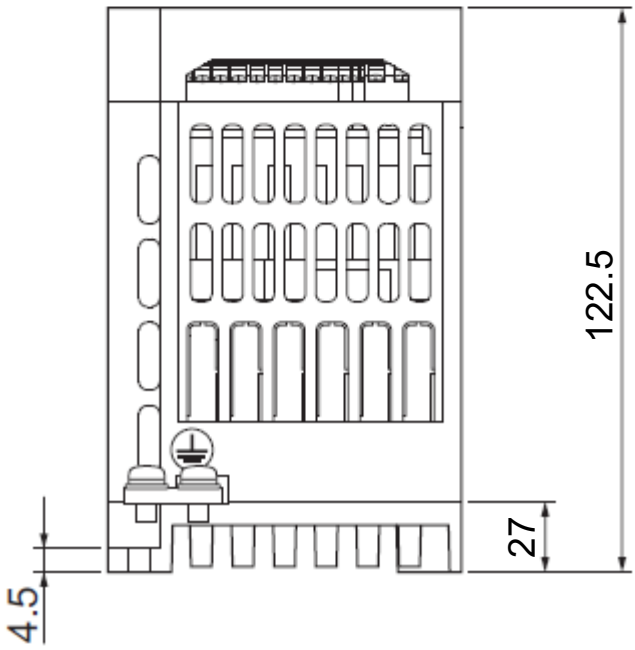


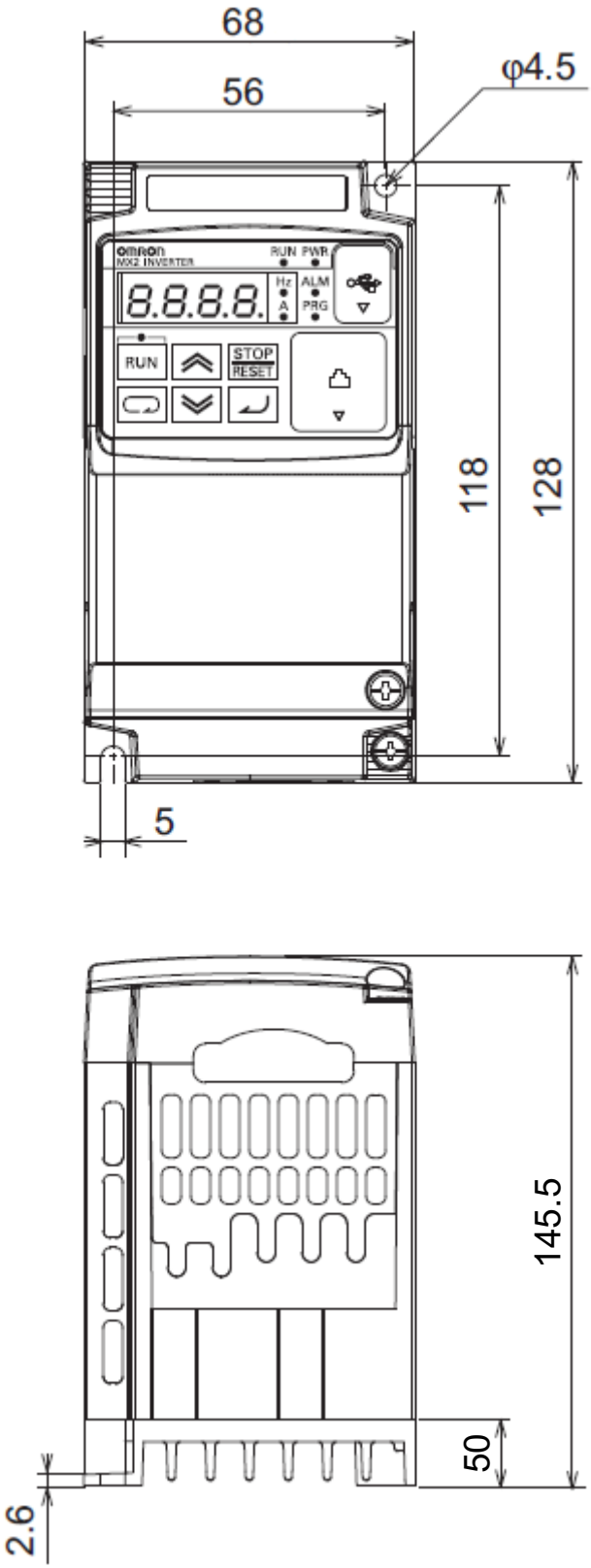
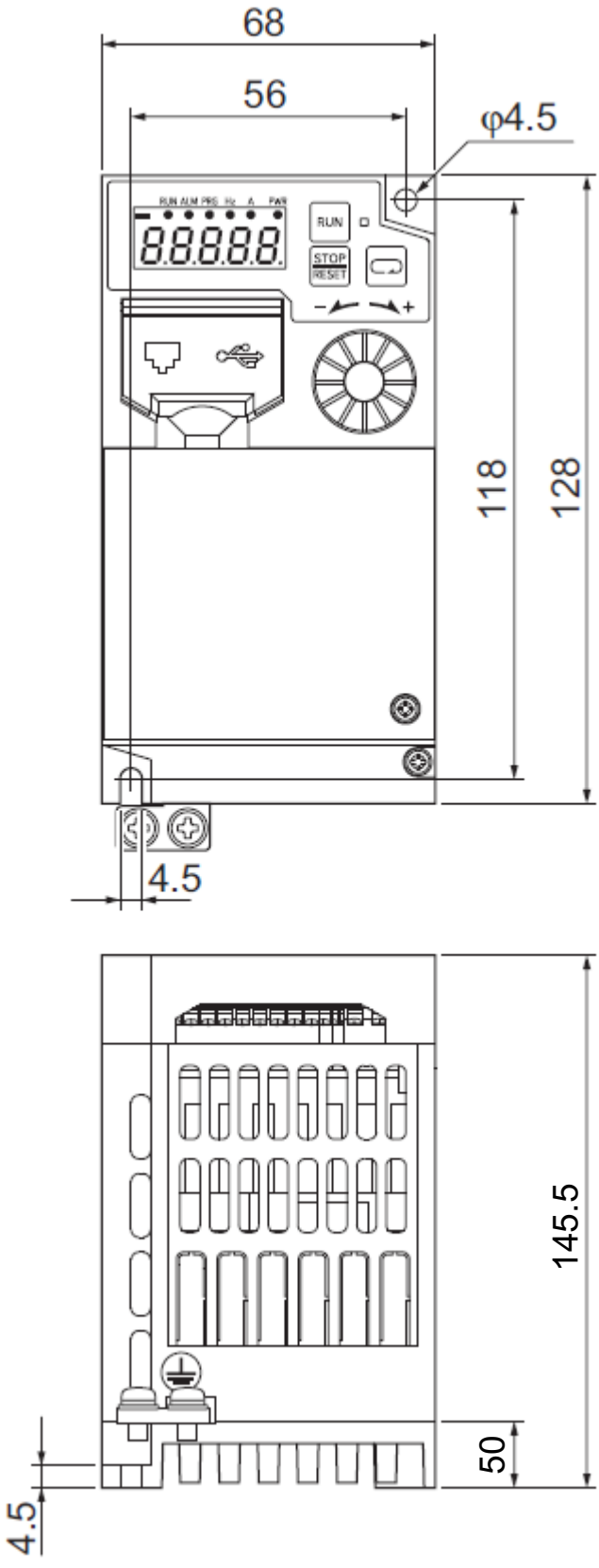
Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 A2004/AB004	**3G3MX2-[]-V2** A2004/AB004

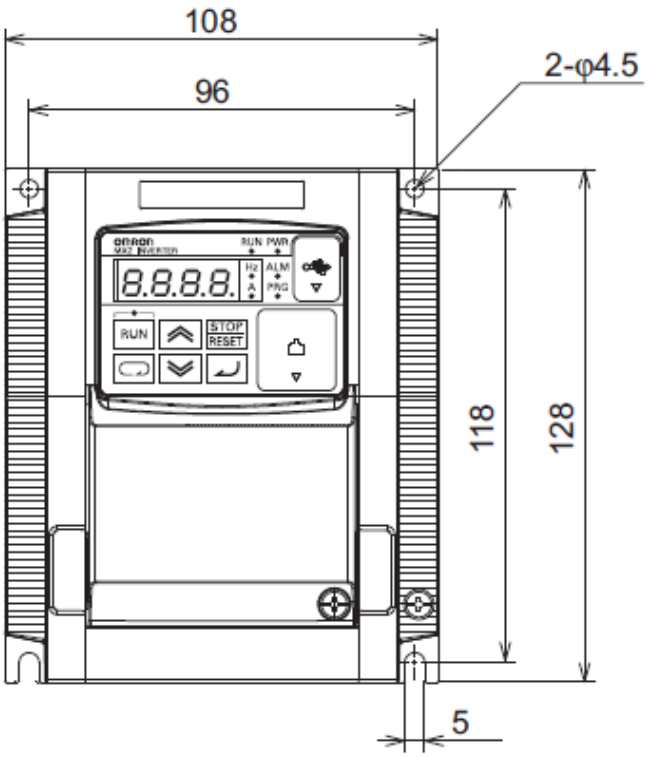
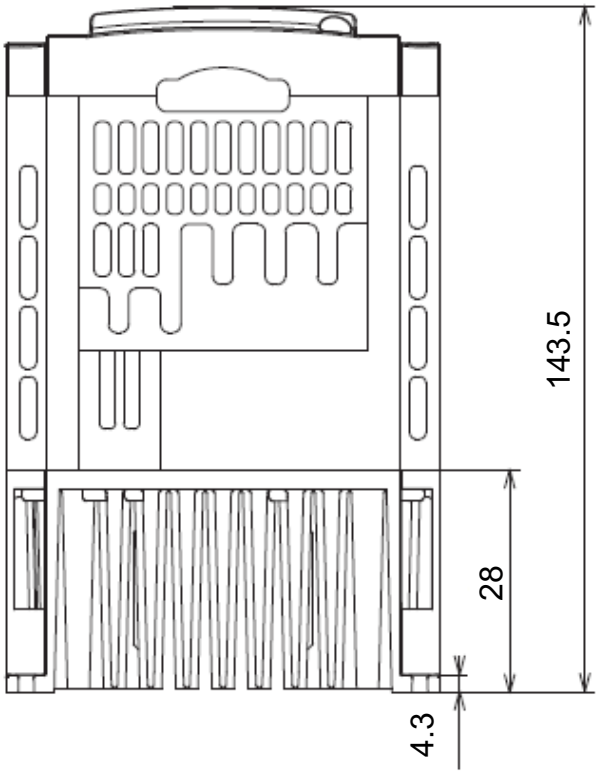
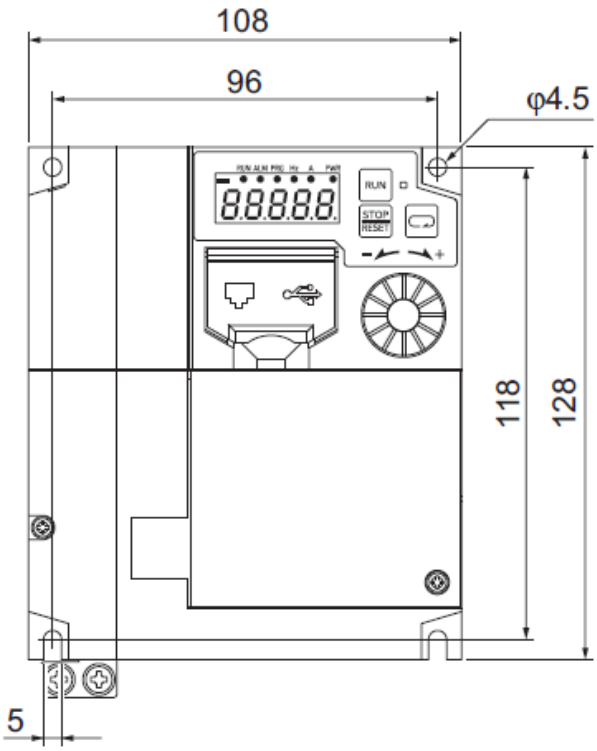
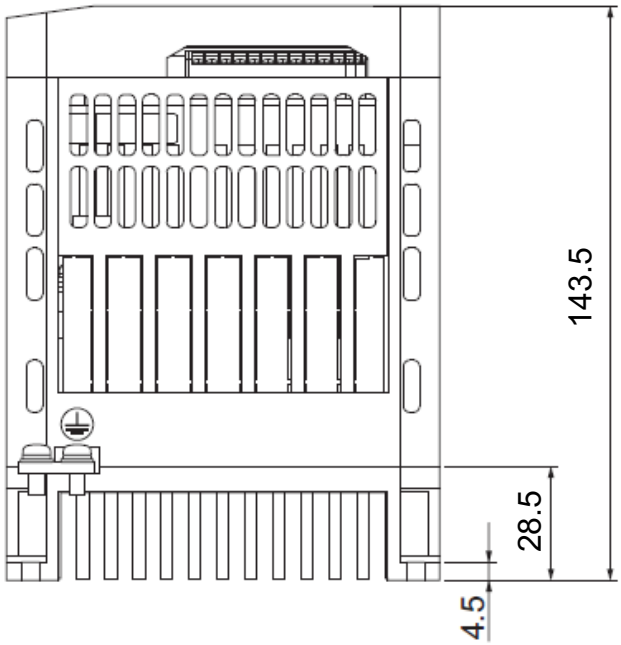




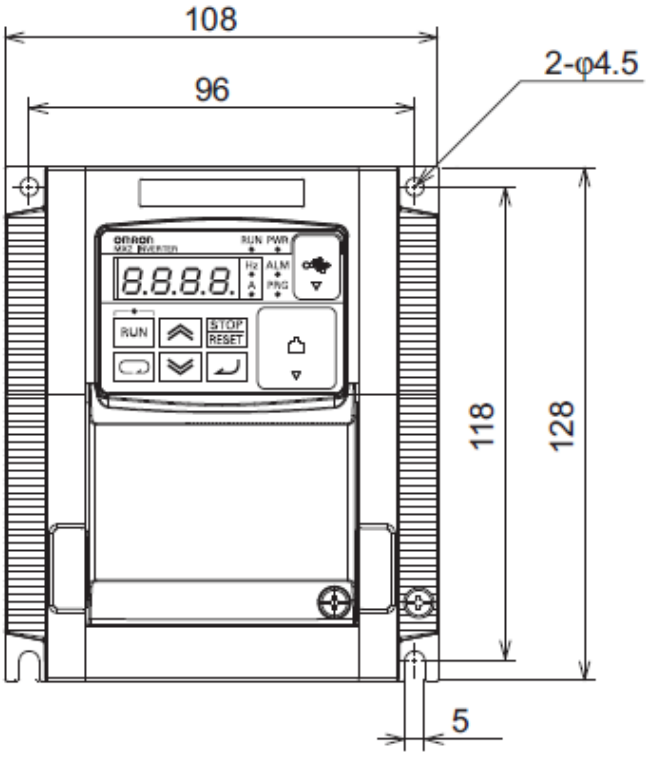


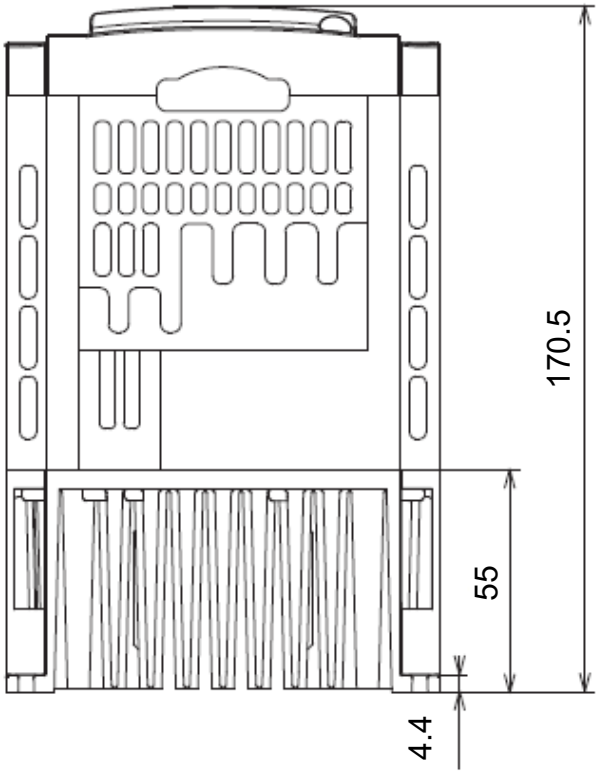


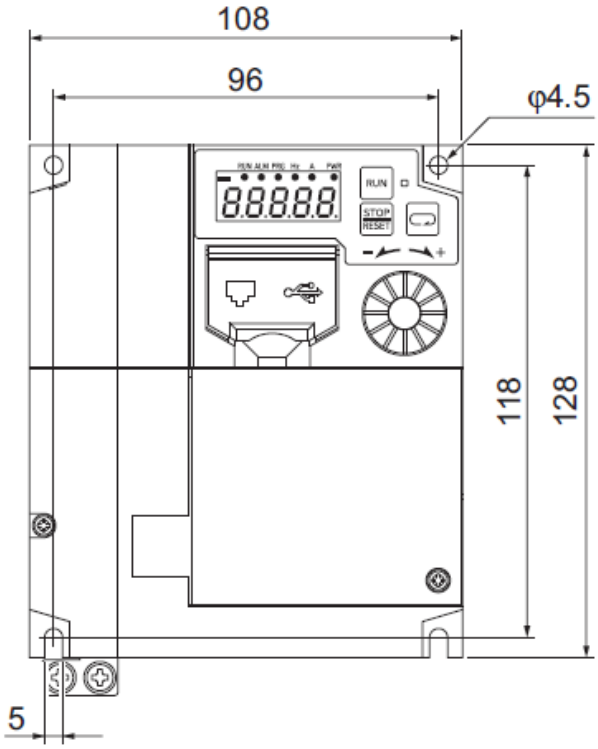
Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 A2007 	**3G3MX2-[]-V2** A2007 

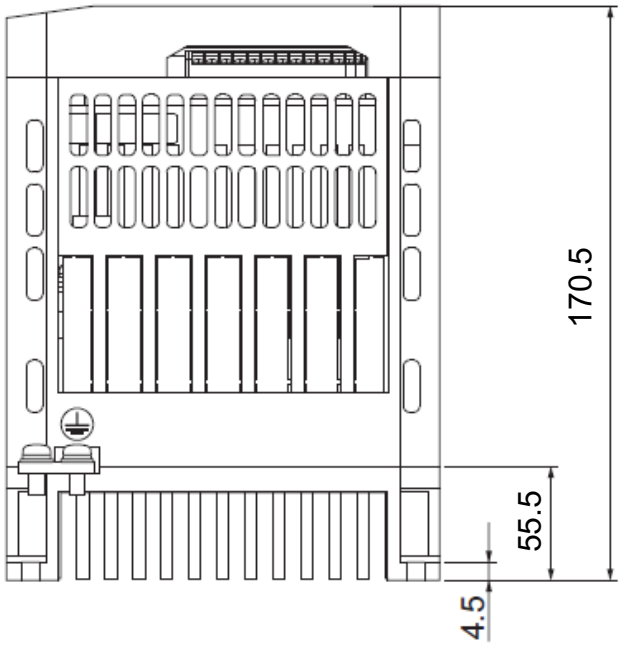
Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 A4004   	**3G3MX2-[]-V2** A4004  

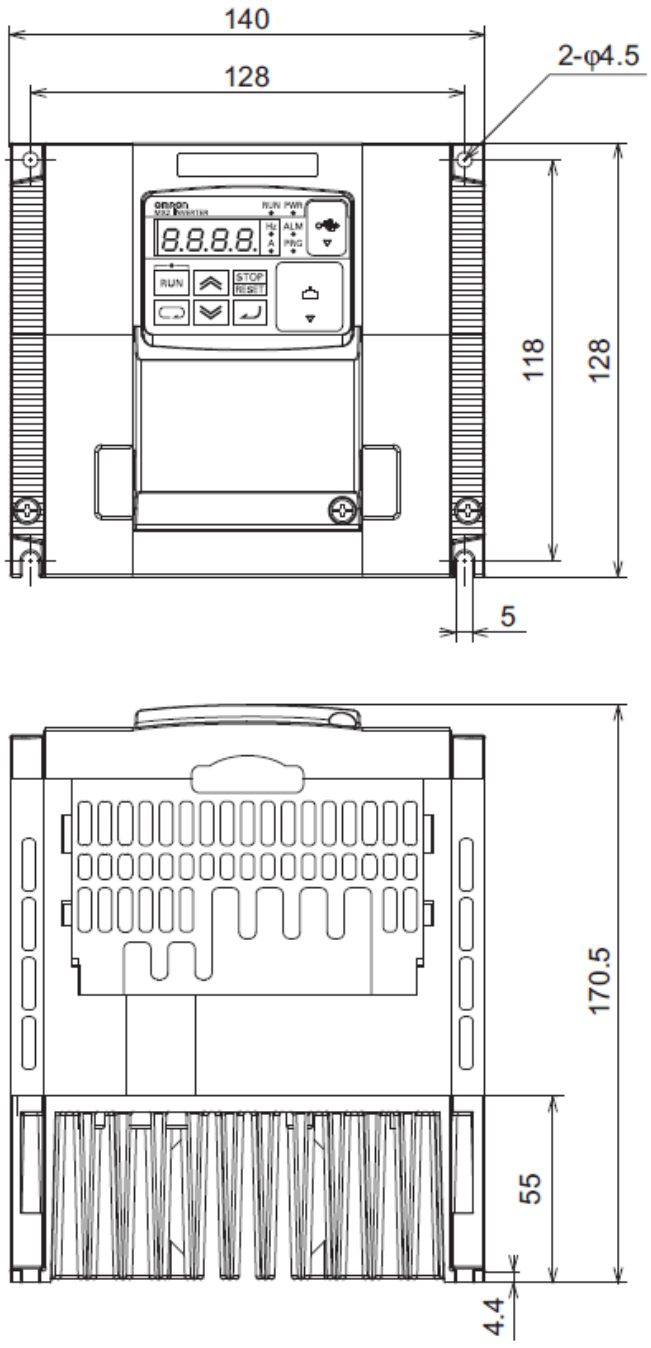
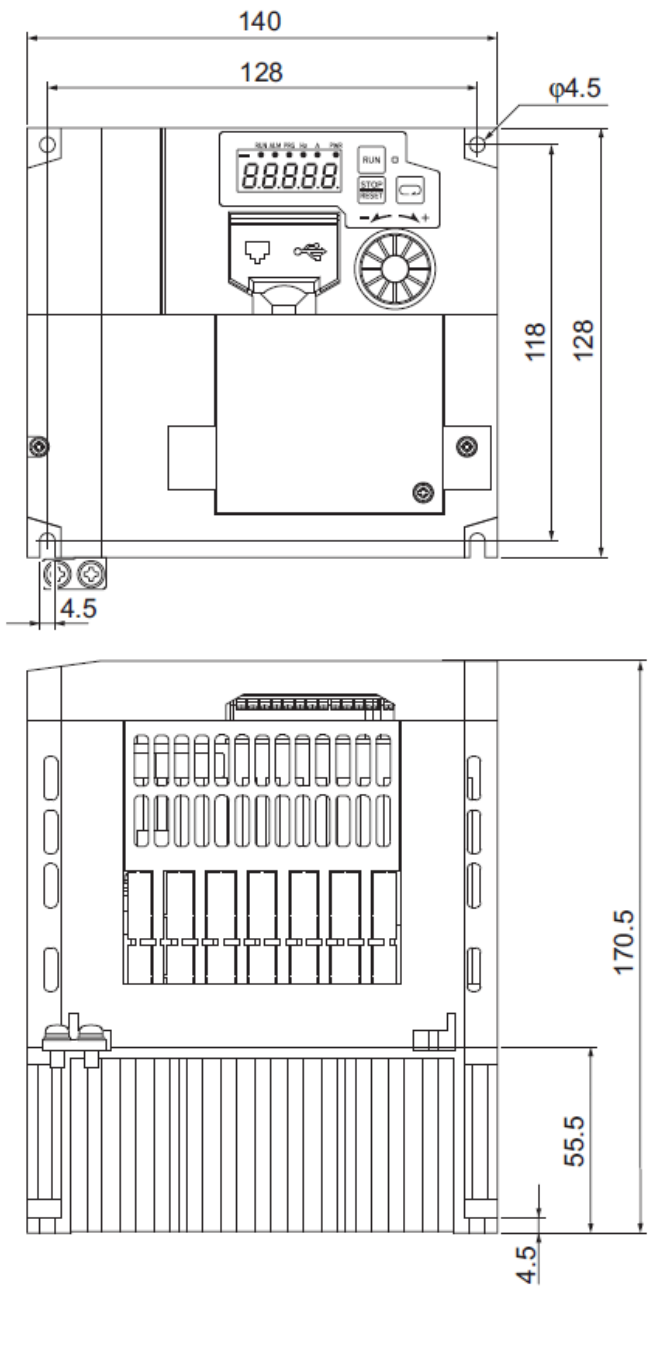
Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 A2015/A2022/A4007/A4015/A4022/A4030 AB007/AB015/AB022	**3G3MX2-[]-V2** A2015/A2022/A4007/A4015/A4022/A4030 AB007/AB015/AB022



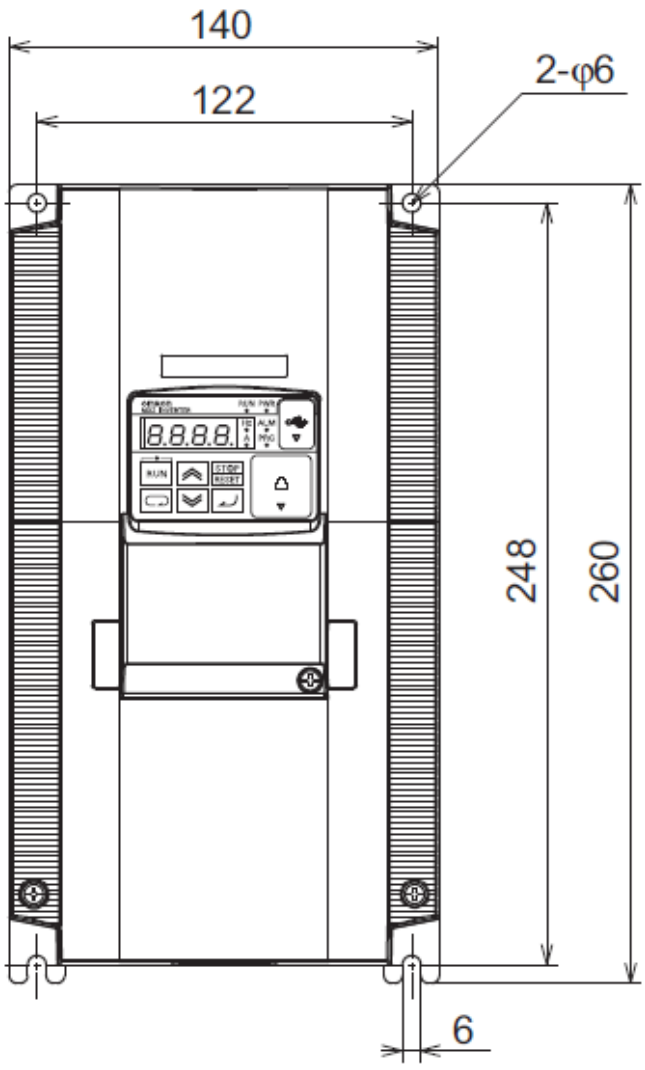


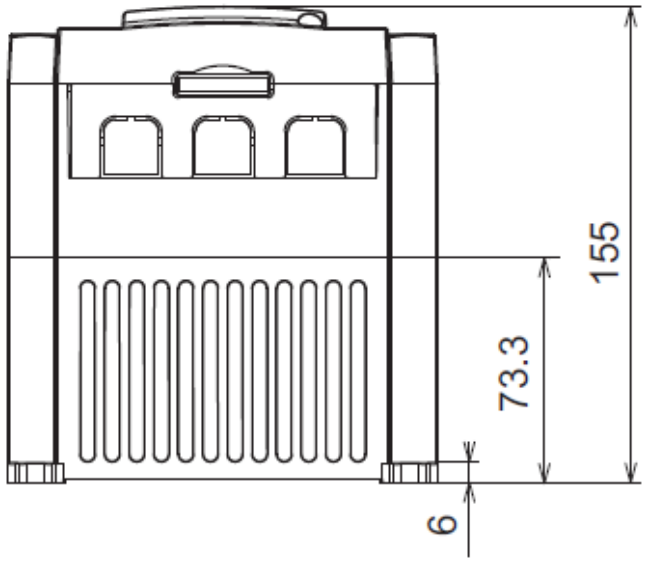


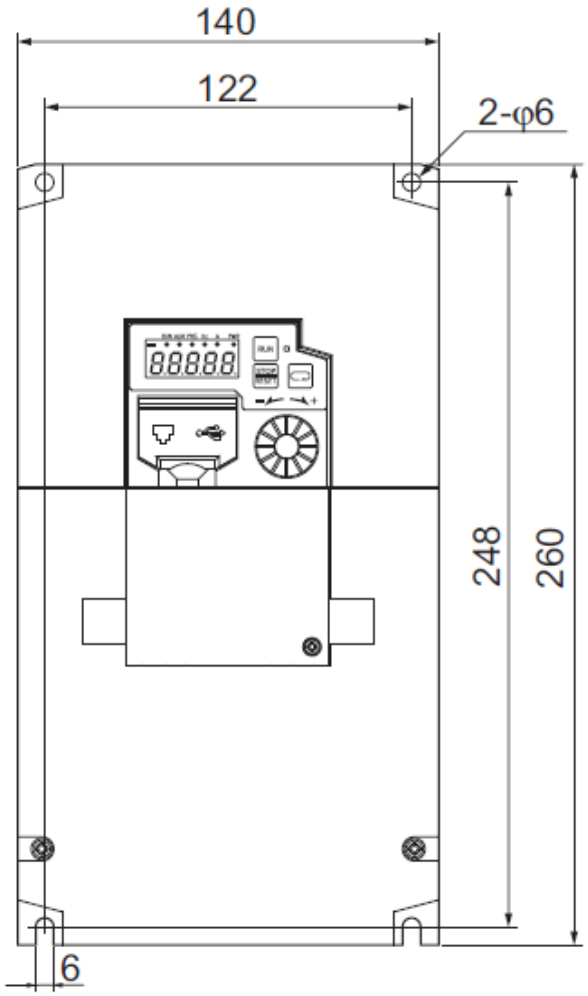


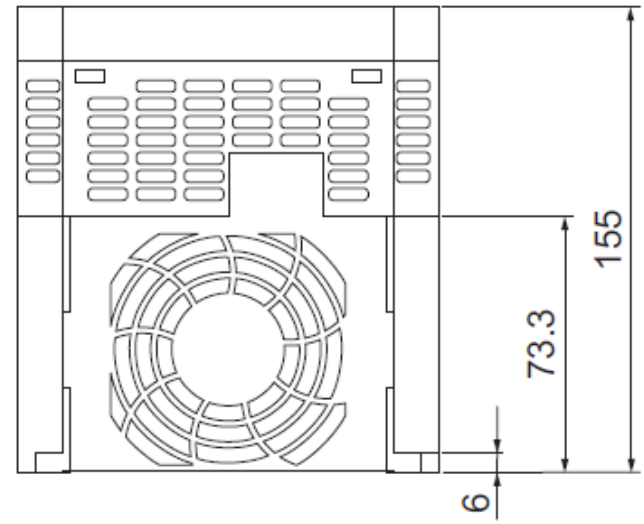
Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 A2037/A4040  	**3G3MX2-[]-V2** A2037/A4040 

Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 A2055/A2075/A4055/A4075	**3G3MX2-[]-V2** A2055/A2075/A4055/A4075

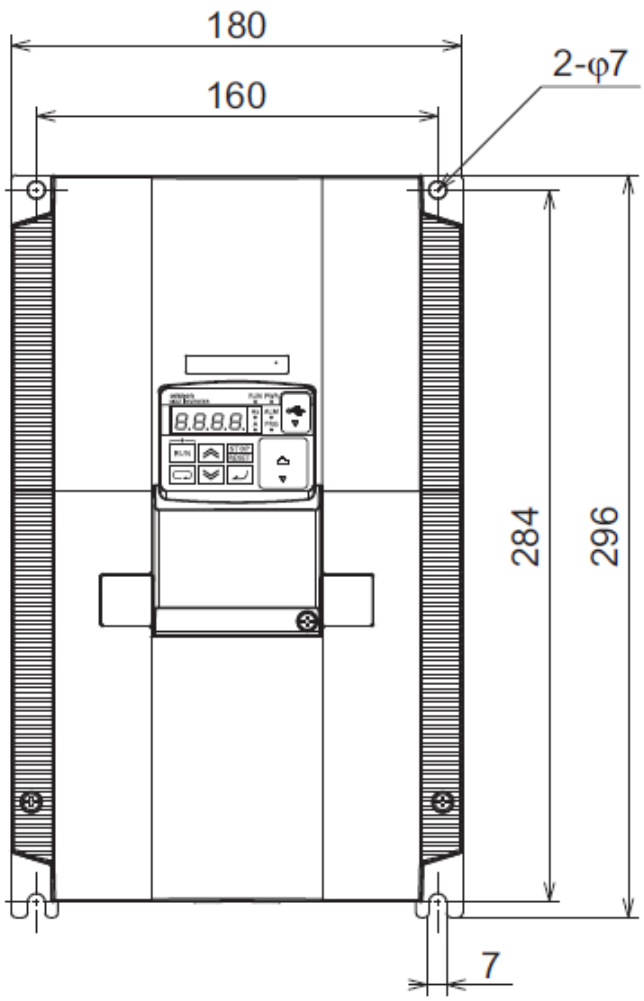


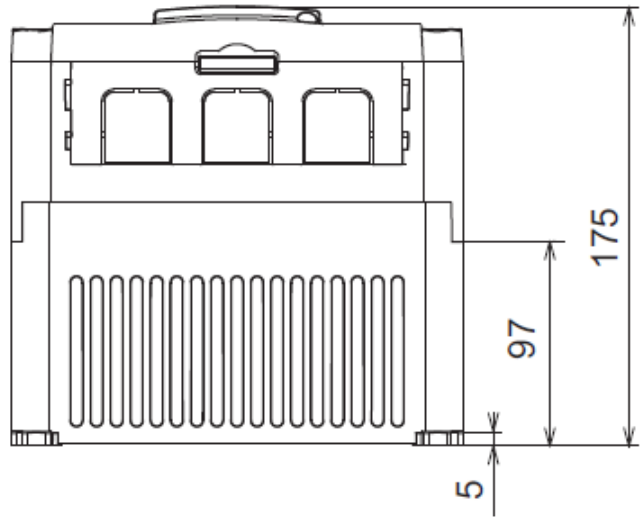


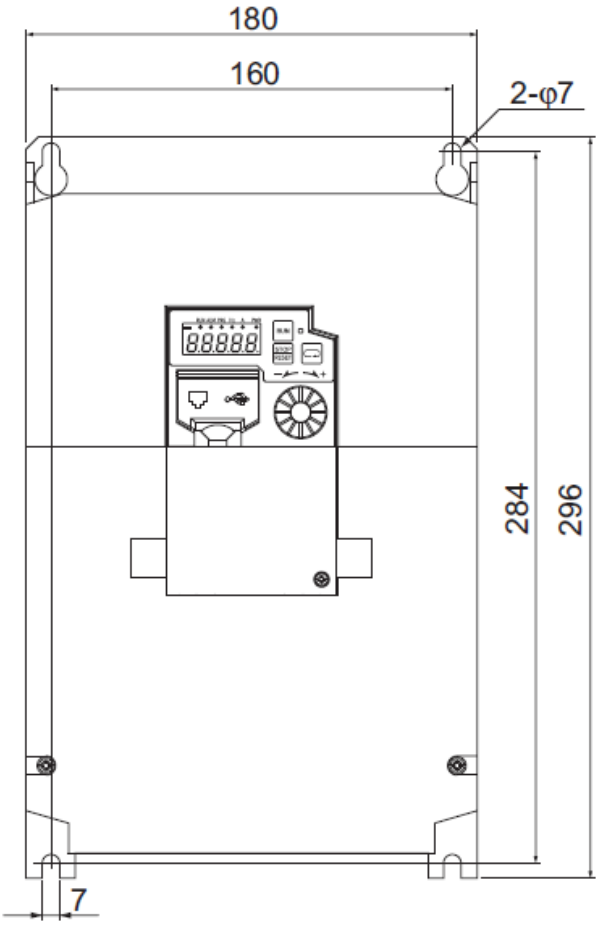


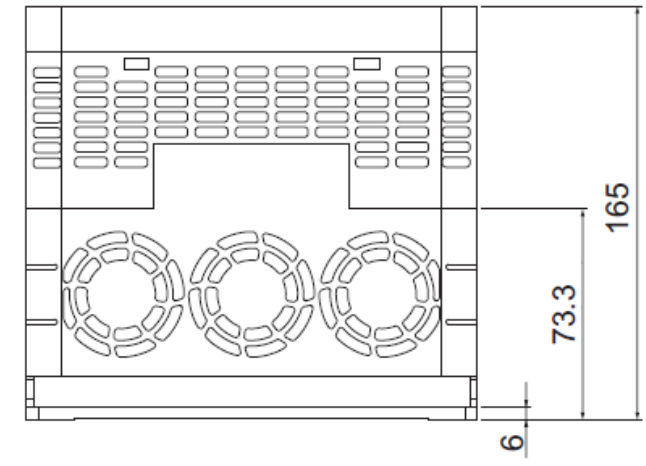


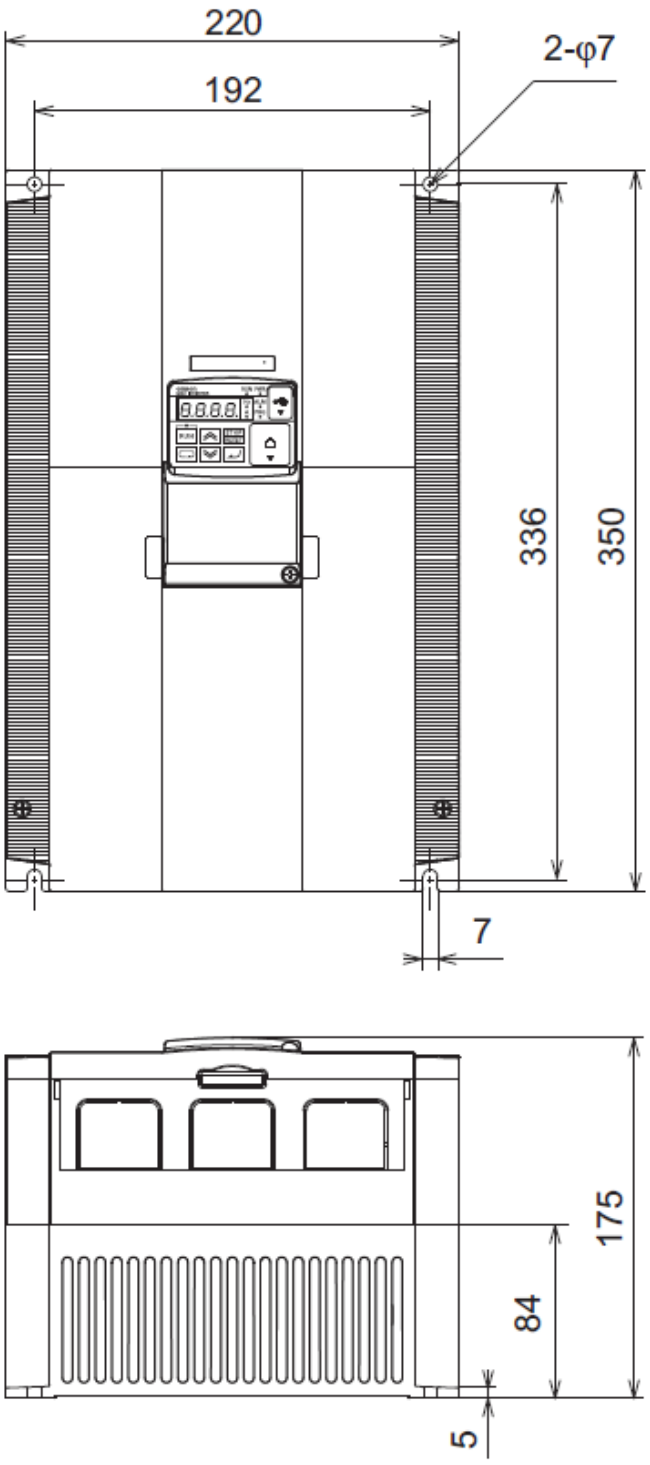
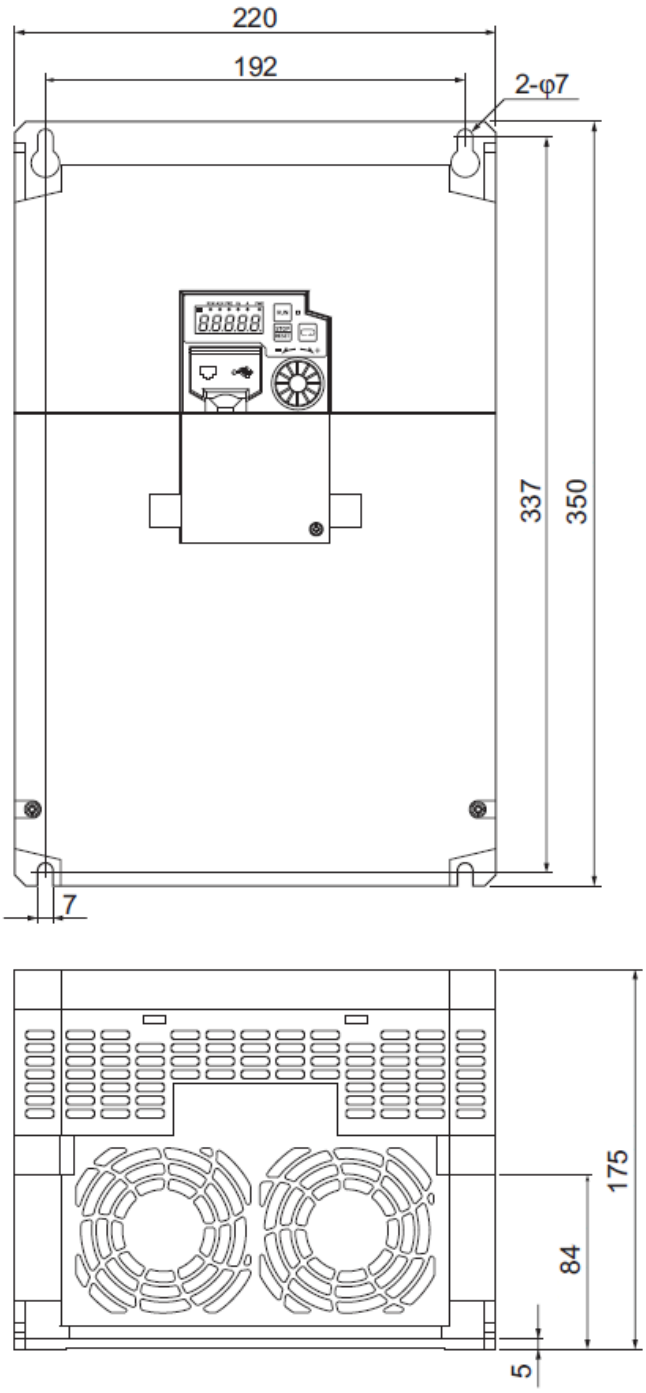
Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 A2110/A4110/A4150	**3G3MX2-[]-V2** A2110/A4110/A4150

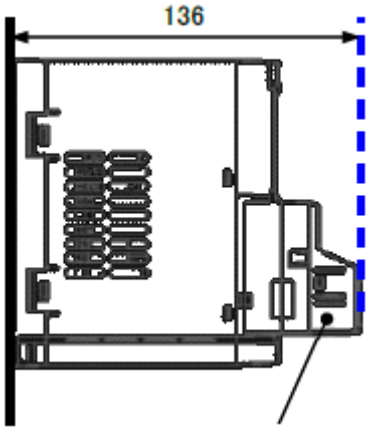
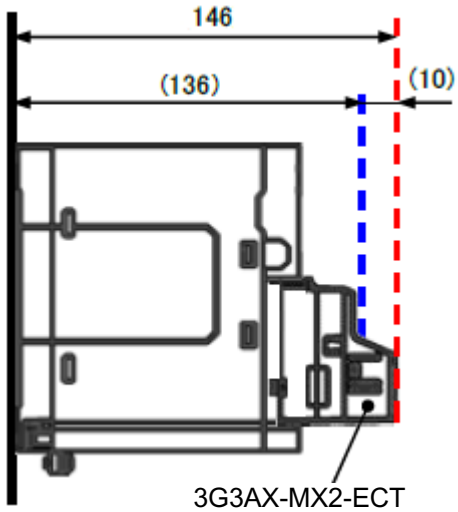




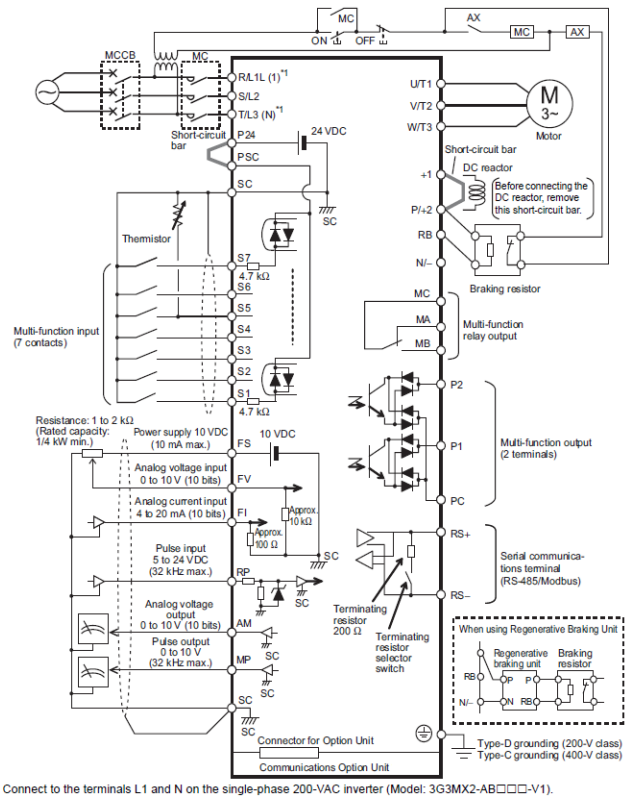
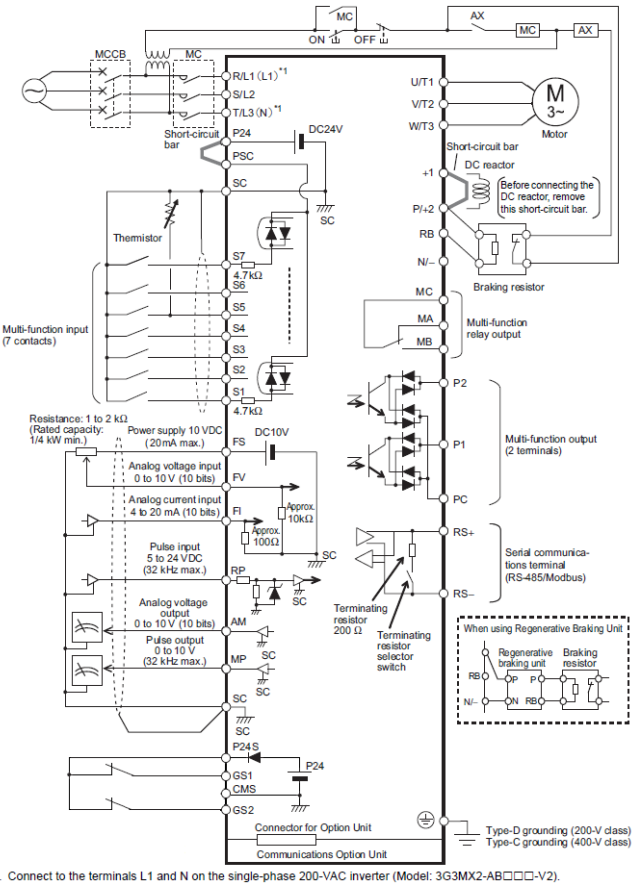




Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 A2150 	**3G3MX2-[]-V2** A2150 

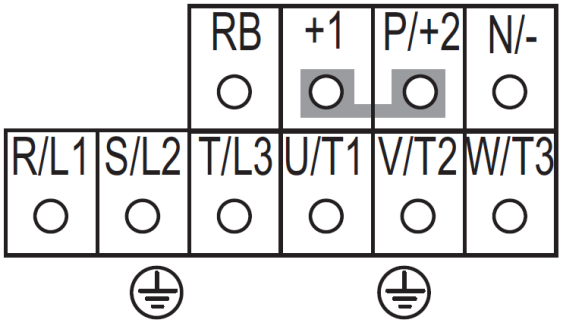
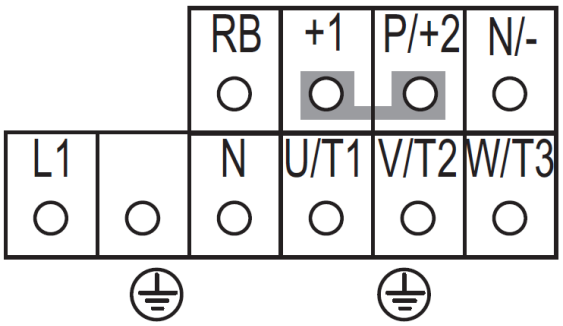
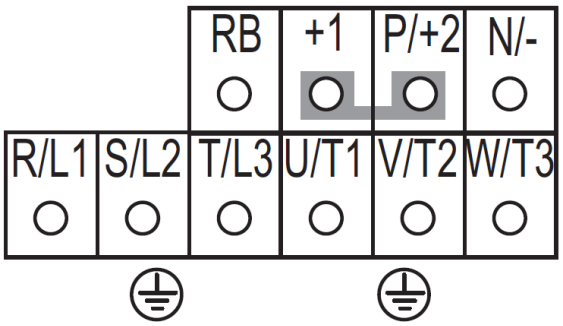
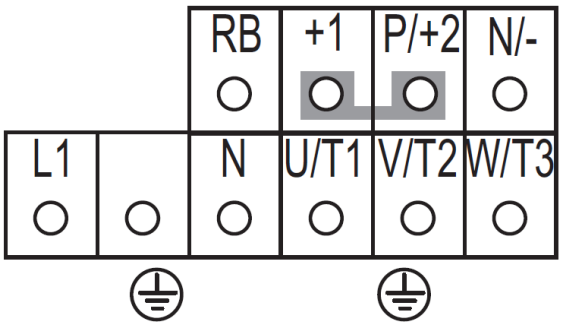
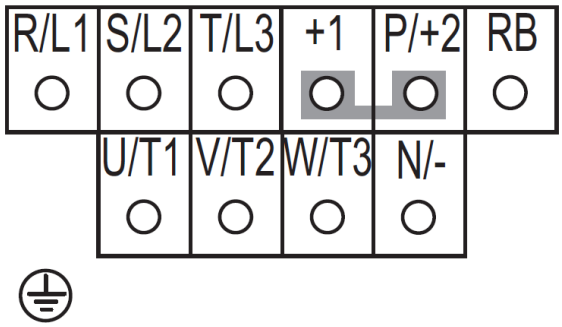
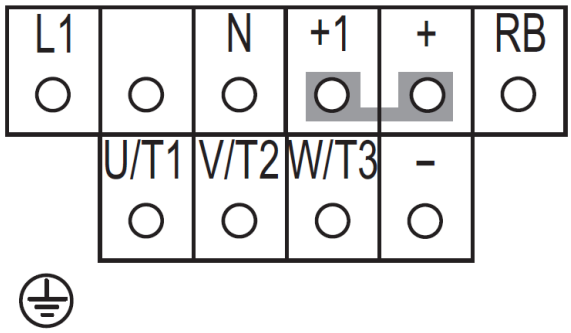
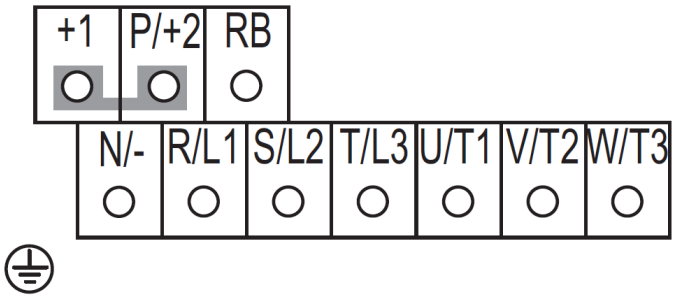
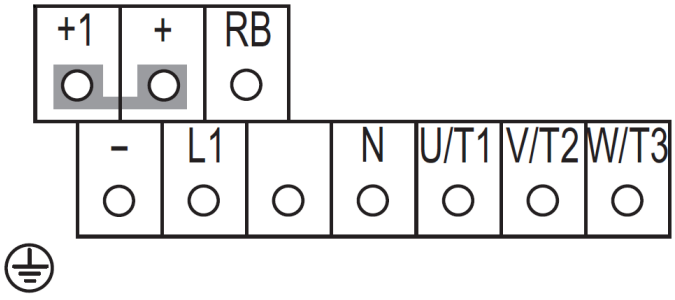
Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1  	**3G3MX2-[]-V2** The depth dimension increases by 10mm compared to 3G3MX2-[]-V1 when the EtherCAT communication unit is connected. 

[Wire connection]

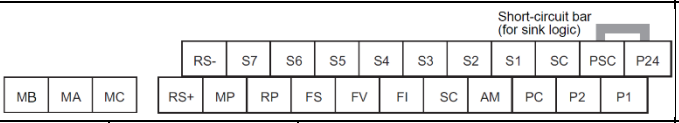
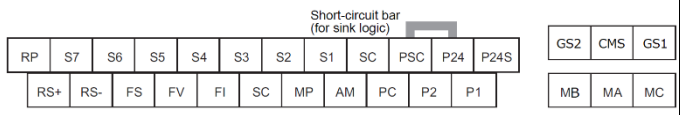
Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 Circuit Diagram  *1. Connect to the terminals L1 and N on the single-phase 200-VAC inverter (Model: 3G3MX2-AB□□□-V1).	**3G3MX2-[]-V2** Circuit Diagram  *1. Connect to the terminals L1 and N on the single-phase 200-VAC inverter (Model: 3G3MX2-AB□□□-V2).

Difference of Terminal Block

Main Circuit Terminal Block

Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
3G3MX2-[]-V1 A2001/A2002/A2004/A2007  AB001/AB002/AB004  A2015/A2022/A2037 A4004/A4007/A4015/A4022/A4030/A4040  AB007/AB015/AB022  	**3G3MX2-[]-V2** A2001/A2002/A2004/A2007  AB001/AB002/AB004  A2015/A2022/A2037 A4004/A4007/A4015/A4022/A4030/A4040  AB007/AB015/AB022 

Control Circuit Terminal Block

Product discontinuation Model 3G3MX2-[]-V1			Recommendable replacement Model 3G3MX2-[]-V2		
					
Terminal	**Terminal name**	**Remarks**	**Terminal**	**Terminal name**	**Remarks**
FS	Frequency reference power supply	Allowable current: **10mA** max.	FS	Frequency reference power supply	Allowable current: **20mA** max.
-	-	-	P24S	Safety input signal power supply	This is 24-VDC power supply for contact input signal of safety switch. This terminal is for source logic only.
S7 S6 S5 S4 S3 S2 S1	Multifunction input	Select seven functions from among **68 functions** and allocate them to terminals S1 to S7. These terminals support both the sink logic and the source logic.	S7 S6 S5 S4 S3 S2 S1	Multifunction input	Select seven functions from among **66 functions** and allocate them to terminals S1 to S7. These terminals support both the sink logic and the source logic.
S4 (GS1) S3 (GS2)	Safety input	Turn ON the safety function selector switch to enable this terminal. This automatically configures S3 and S4 as follows. S3: GS1 (Safety input 1) S4: GS2 (Safety input 2)	GS1 GS2	Safety input	Safety input terminals are separated from S4 and S3.
S7 (EB)	Pulse input - B	Input pulse: **1.8kHz** max. Internal resistance: 4.7kΩ ON voltage: 18V min. OFF voltage: 3V max. Allowable voltage: 27VDC max. Load current: 5mA (at 24V)	S7 (EB)	Pulse input - B	Input pulse: **32kHz** max. Internal resistance: 4.7kΩ ON voltage: 18V min. OFF voltage: 3V max. Allowable voltage: 27VDC max. Load current: 5mA (at 24V)

[Characteristics]

Characteristics are same

Item		Product discontinuation Model 3G3MX2-[]-V1					Recommendable replacement Model 3G3MX2-[]-V2				
			A2001	A2002	A2004	A2007		A2001	A2002	A2004	A2007
Applicable motor capacity [kW] (Standard 3-phase motors)		CT	0.1	0.2	0.4	0.75	CT	0.1	0.2	0.4	0.75
		VT	0.2	0.4	0.75	1.1	VT	0.2	0.4	0.75	1.1
Rated input voltage		3-phase: 200V -15% to 240V +10%, 50/60Hz ±5%					3-phase: 200V -15% to 240V +10%, 50/60Hz ±5%				
Rated input current [A]		CT	1.0	1.6	3.3	6.0	CT	1.0	1.6	3.3	6.0
		VT	1.2	1.9	3.9	7.2	VT	1.2	1.9	3.9	7.2
Rated output voltage		3-phase (3-wire): 200 to 240V (depending on receiving voltage)					3-phase (3-wire): 200 to 240V (depending on receiving voltage)				
Rated output current [A]		CT	1.0	1.6	3.0	5.0	CT	1.0	1.6	3.0	5.0
		VT	1.2	1.9	3.5	6.0	VT	1.2	1.9	3.5	6.0
Braking resistor circuit	Regenerative braking	Built-in braking resistor circuit (with a discharge resistor separately installed)					Built-in braking resistor circuit (with a discharge resistor separately installed)				
	Minimum connection resistance [Ω]	-	100	100	100	50	-	100	100	100	50

Item		Product discontinuation Model 3G3MX2-[]-V1					Recommendable replacement Model 3G3MX2-[]-V2				
			A2015	A2022	A2037	A2055		A2015	A2022	A2037	A2055
Applicable motor capacity [kW] (Standard 3-phase motors)		CT	1.5	2.2	3.7	5.5	CT	1.5	2.2	3.7	5.5
		VT	2.2	3.0	5.5	7.5	VT	2.2	3.0	5.5	7.5
Rated input voltage		3-phase: 200V -15% to 240V +10%, 50/60Hz ±5%					3-phase: 200V -15% to 240V +10%, 50/60Hz ±5%				
Rated input current [A]		CT	9.0	12.7	20.5	30.8	CT	9.0	12.7	20.5	30.8
		VT	10.8	13.9	23.0	37.0	VT	10.8	13.9	23.0	37.0
Rated output voltage		3-phase (3-wire): 200 to 240V (depending on receiving voltage)					3-phase (3-wire): 200 to 240V (depending on receiving voltage)				
Rated output current [A]		CT	8.0	11.0	17.5	25.0	CT	8.0	11.0	17.5	25.0
		VT	9.6	12.0	19.6	30.0	VT	9.6	12.0	19.6	30.0
Braking resistor circuit	Regenerative braking	Built-in braking resistor circuit (with a discharge resistor separately installed)					Built-in braking resistor circuit (with a discharge resistor separately installed)				
	Minimum connection resistance [Ω]	-	50	35	35	20	-	50	35	35	20

Item		Product discontinuation Model 3G3MX2-[]-V1				Recommendable replacement Model 3G3MX2-[]-V2			
			A2075	A2110	A2150		A2075	A2110	A2150
Applicable motor capacity [kW] (Standard 3-phase motors)		CT	7.5	11	15	CT	7.5	11	15
		VT	11	15	18.5	VT	11	15	18.5
Rated input voltage		3-phase: 200V -15% to 240V 10%, 50/60Hz ±5%				3-phase: 200V -15% to 240V 10%, 50/60Hz ±5%			
Rated input current [A]		CT	39.6	57.1	62.6	CT	39.6	57.1	62.6
		VT	48.0	68.0	72.0	VT	48.0	68.0	72.0
Rated output voltage		3-phase (3-wire) 200 to 240V (depending on receiving voltage)				3-phase (3-wire) 200 to 240V (depending on receiving voltage)			
Rated output current [A]		CT	33.0	47.0	60.0	CT	33.0	47.0	60.0
		VT	40.0	56.0	69.0	VT	40.0	56.0	69.0
Braking resistor circuit	Regenerative braking	Built-in braking resistor circuit (with a discharge resistor separately installed)				Built-in braking resistor circuit (with a discharge resistor separately installed)			
	Minimum connection resistance [Ω]	-	17	17	10	-	17	17	10

Item		Product discontinuation Model 3G3MX2-[]-V1						Recommendable replacement Model 3G3MX2-[]-V2					
			A4004	A4007	A4015	A4022	A4030		A4004	A4007	A4015	A4022	A4030
Applicable motor capacity [kW] (Standard 3-phase motors)		CT	0.4	0.75	1.5	2.2	3.0	CT	0.4	0.75	1.5	2.2	3.0
		VT	0.75	1.5	2.2	3.0	4.0	VT	0.75	1.5	2.2	3.0	4.0
Rated input voltage		3-phase: 380V -15% to 480V +10%, 50/60Hz ±5%						3-phase: 380V -15% to 480V +10%, 50/60Hz ±5%					
Rated input current [A]		CT	1.8	3.6	5.2	6.5	7.7	CT	1.8	3.6	5.2	6.5	7.7
		VT	2.1	4.3	5.9	8.1	9.4	VT	2.1	4.3	5.9	8.1	9.4
Rated output voltage		3-phase (3-wire): 380 to 480V (depending on receiving voltage)						3-phase (3-wire): 380 to 480V (depending on receiving voltage)					
Rated output current [A]		CT	1.8	3.4	4.8	5.5	7.2	CT	1.8	3.4	4.8	5.5	7.2
		VT	2.1	4.1	5.4	6.9	8.8	VT	2.1	4.1	5.4	6.9	8.8
Braking resistor circuit	Regenerative braking	Built-in braking resistor circuit (with a discharge resistor separately installed)						Built-in braking resistor circuit (with a discharge resistor separately installed)					
	Minimum connection resistance [Ω]	-	180	180	180	100	100	-	180	180	180	100	100

Item		Product discontinuation Model 3G3MX2-[]-V1						Recommendable replacement Model 3G3MX2-[]-V2					
			A4040	A4055	A4075	A4110	A4150		A4040	A4055	A4075	A4110	A4150
Applicable motor capacity [kW] (Standard 3-phase motors)		CT	4.0	5.5	7.5	11	15	CT	4.0	5.5	7.5	11	15
		VT	5.5	7.5	11	15	18.5	VT	5.5	7.5	11	15	18.5
Rated input voltage		3-phase: 380V -15% to 480V +10%, 50/60Hz ±5%						3-phase: 380V -15% to 480V +10%, 50/60Hz ±5%					
Rated input current [A]		CT	11.0	16.9	18.8	29.4	35.9	CT	11.0	16.9	18.8	29.4	35.9
		VT	13.3	20.0	24.0	38.0	44.0	VT	13.3	20.0	24.0	38.0	44.0
Rated output voltage		3-phase (3-wire): 380 to 480V (depending on receiving voltage)						3-phase (3-wire): 380 to 480V (depending on receiving voltage)					
Rated output current [A]		CT	9.2	14.8	18.0	24.0	31.0	CT	9.2	14.8	18.0	24.0	31.0
		VT	11.1	17.5	23.0	31.0	38.0	VT	11.1	17.5	23.0	31.0	38.0
Braking resistor circuit	Regenerative braking	Built-in braking resistor circuit (with a discharge resistor separately installed)						Built-in braking resistor circuit (with a discharge resistor separately installed)					
	Minimum connection resistance [Ω]	-	100	70	70	70	35	-	100	70	70	70	35

Item		Product discontinuation Model 3G3MX2-[]-V1				Recommendable replacement Model 3G3MX2-[]-V2			
			AB001	AB002	AB004		AB001	AB002	AB004
Applicable motor capacity [kW] (Standard 3-phase motors)		CT	0.1	0.2	0.4	CT	0.1	0.2	0.4
		VT	0.2	0.4	0.55	VT	0.2	0.4	0.55
Rated input voltage		Single-phase: 200V -15% to 240V +10%, 50/60Hz ±5%				Single-phase: 200V -15% to 240V +10%, 50/60Hz ±5%			
Rated input current [A]		CT	1.3	3.0	6.3	CT	1.3	3.0	6.3
		VT	2.0	3.6	7.3	VT	2.0	3.6	7.3
Rated output voltage		3-phase (3-wire): 200 to 240V (depending on receiving voltage)				3-phase (3-wire): 200 to 240V (depending on receiving voltage)			
Rated output current [A]		CT	1.0	1.6	3.0	CT	1.0	1.6	3.0
		VT	1.2	1.9	3.5	VT	1.2	1.9	3.5
Braking resistor circuit	Regenerative braking	Built-in braking resistor circuit (with a discharge resistor separately installed)				Built-in braking resistor circuit (with a discharge resistor separately installed)			
	Minimum connection resistance [Ω]	-	100	100	100	-	100	100	100

Item		Product discontinuation Model 3G3MX2-[]-V1				Recommendable replacement Model 3G3MX2-[]-V2			
			AB007	AB015	AB022		AB007	AB015	AB022
Applicable motor capacity [kW] (Standard 3-phase motors)		CT	0.75	1.5	2.2	CT	0.75	1.5	2.2
		VT	1.1	2.2	3.0	VT	1.1	2.2	3.0
Rated input voltage		Single-phase: 200V -15% to 240V +10%, 50/60Hz ±5%				Single-phase: 200V -15% to 240V +10%, 50/60Hz ±5%			
Rated input current [A]		CT	11.5	16.8	22.0	CT	11.5	16.8	22.0
		VT	13.8	20.2	24.0	VT	13.8	20.2	24.0
Rated output voltage		3-phase (3-wire): 200 to 240V (depending on receiving voltage)				3-phase (3-wire): 200 to 240V (depending on receiving voltage)			
Rated output current [A]		CT	5.0	8.0	11.0	CT	5.0	8.0	11.0
		VT	6.0	9.6	12.0	VT	6.0	9.6	12.0
Braking resistor circuit	Regenerative braking	Built-in braking resistor circuit (with a discharge resistor separately installed)				Built-in braking resistor circuit (with a discharge resistor separately installed)			
	Minimum connection resistance [Ω]	-	50	50	35	-	50	50	35

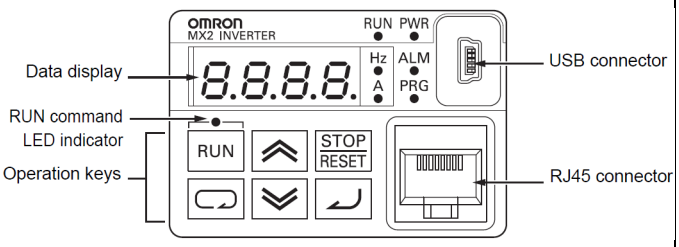
[Operation ratings]

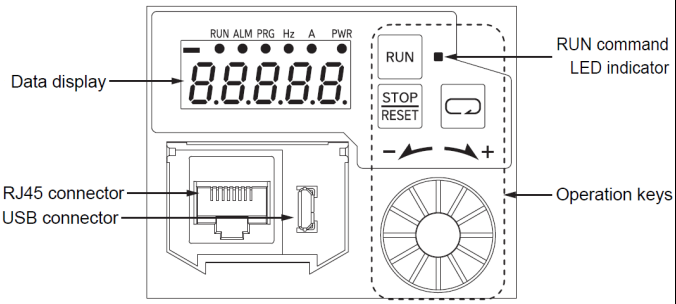
Item	Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2
Control method	Phase-to-phase sinusoidal modulation PWM	
Output frequency range	0.01 to 400Hz (or 580Hz in the high-frequency mode)	0.01 to 590Hz
Frequency precision	Digital command: ±0.01% of the maximum frequency Analog command: ±0.2% of the maximum frequency (25±10°C)	
Frequency resolution	Digital setting: 0.01Hz Analog setting: maximum frequency × 1/1000	
Voltage/Frequency characteristics	V/f characteristics (constant torque, reduced torque) Sensorless vector control, V/f control with speed feedback	
Overload current rating of inverter	Heavy load rating (CT): 150%/60s Light load rating (VT): 120%/60s	
Instantaneous overcurrent protection	200% of heavy load rating (CT) value	
Acceleration /Deceleration time	0.0 to 3600 s (line/curve arbitrary setting) 2nd acceleration/deceleration setting provided	
Carrier frequency change range	2 to 15 kHz (Derating required)	
Starting torque	200%/0.5Hz (Sensorless vector control)	
DC injection braking	Operates at operating frequency or less during deceleration via STOP command, at set frequency or less during operation, or via external input (level and time can be set).	

[Operation methods]

Product discontinuation Model 3G3MX2-[]-V1	Recommendable replacement Model 3G3MX2-[]-V2

Digital Operator





Name	Description	Name	Description
Data display	4 digits	Data display	5 digits
Operation keys	6 buttons	Operation keys	A jog dial and 4 buttons

Communication Unit

EtherCAT	3G3AX-MX2-ECT	EtherCAT	3G3AX-MX2-ECT
CompoNet	3G3AX-MX2-CRT-E	CompoNet	Unsupported
DeviceNet	3G3AX-MX2-DRT-E	DeviceNet	Unsupported

Parameters

No.	Name	Description	No.	Name	Description
b031	Soft Lock Selection	10: Data can be changed during RUN.	b031	Soft Lock Selection	10: Deleted
b037	Display Selection	04: Basic display	b037	Display Selection	04: Deleted
-	-	-	b098	Ground Fault Selection	Select whether to enable or disable the function that detects ground faults between the inverter output and the motor when the power is turned on. Ground fault protection trips when a ground fault is detected. 00: Disabled 01: Enabled
b171	Inverter Mode Selection	02: Induction motor high-frequency mode	b171	Inverter Mode Selection	02: Deleted
-	-	-	C117	Jog Sensitive	Set the sensitivity of the jog dial required to increment or decrement the value of the parameters by 1. 1 to 24
-	-	-	C118	Jog Carry Sensitive	Set the sensitivity of the jog dial required to carry-up or carry-down the value of the parameters. 1 to 100