

Product Discontinuation Notices

April 4, 2011

Frequency Inverters

No. 2011122E

Discontinuation Notice of Multi-function Compact Inverter 3G3MX Series

Product Discontinuation

Multi-function Compact Inverter

Recommended Replacement

Multi-function Compact Inverter



3G3MX-A [] [] [] []

3G3MX2-A [] [] [] []

Discontinuation date : The end of March, 2012

Caution on recommended replacement

- Dimensions and mounting dimensions are almost compatible with conventional models, excluding three models.
- Operator key to enter to each mode is different. 3G3MX: Mode key → 3G3MX2: Enter key.

Difference from discontinued product

Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
3G3MX2-A [] [] [] []	**	*	*	*	**	**	*

** : Fully compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement
3G3MX-A2002	3G3MX2-A2002
3G3MX-A2004	3G3MX2-A2004
3G3MX-A2007	3G3MX2-A2007
3G3MX-A2015	3G3MX2-A2015
3G3MX-A2022	3G3MX2-A2022
3G3MX-A2037	3G3MX2-A2037
3G3MX-A2055	3G3MX2-A2055
3G3MX-A2075	3G3MX2-A2075
3G3MX-A4004	3G3MX2-A4004
3G3MX-A4007	3G3MX2-A4007
3G3MX-A4015	3G3MX2-A4015
3G3MX-A4022	3G3MX2-A4022
3G3MX-A4037	3G3MX2-A4040
3G3MX-A4055	3G3MX2-A4055
3G3MX-A4075	3G3MX2-A4075
3G3MX-AE002	3G3MX2-AB002
3G3MX-AE004	3G3MX2-AB004
3G3MX-AE007	3G3MX2-AB007
3G3MX-AE015	3G3MX2-AB015
3G3MX-AE022	3G3MX2-AB022

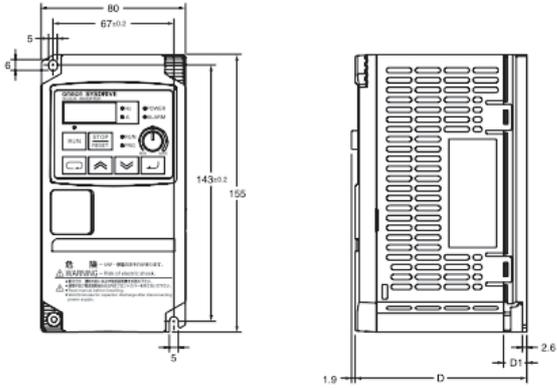
Body color

Product discontinuation 3G3MX-A□□□□	Recommendable replacement 3G3MX2-A□□□□
Black	Black

Dimensions/Mounting Dimensions

Product discontinuation 3G3MX-A□□□□

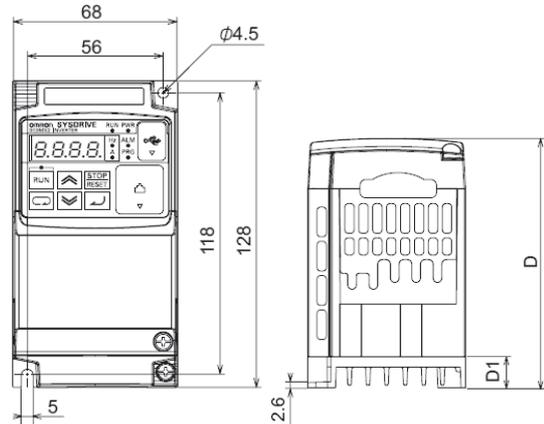
3G3MX-A2002 to A2007 (0.2 to 0.75kW)
3G3MX-AE002 to AE004 (0.2 to 0.4 kW)



Rated voltage	Model 3G3JX-	Dimensions (mm)	
		D	D1
3phase 200 V AC	A2002	95.5	13
	A2004	109.5	27
	A2007	132.5	50
1/3phase 200 V AC	AE002	95.5	13
	AE004	109.5	27

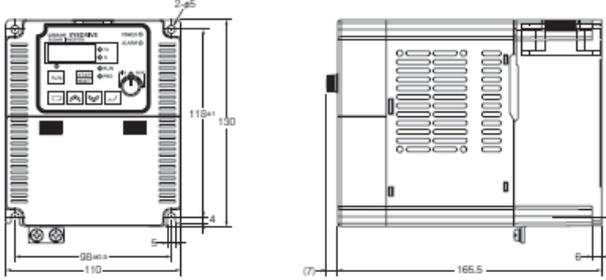
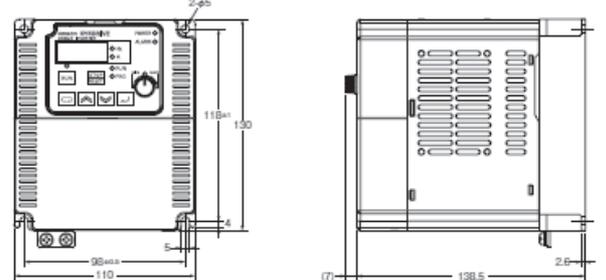
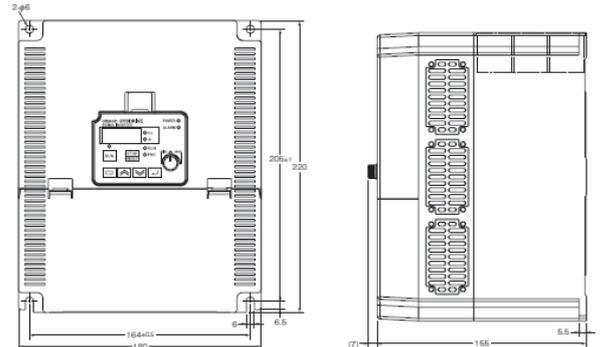
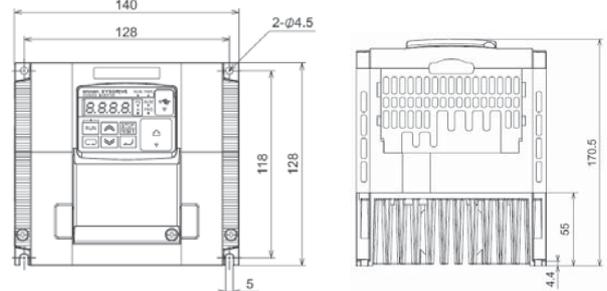
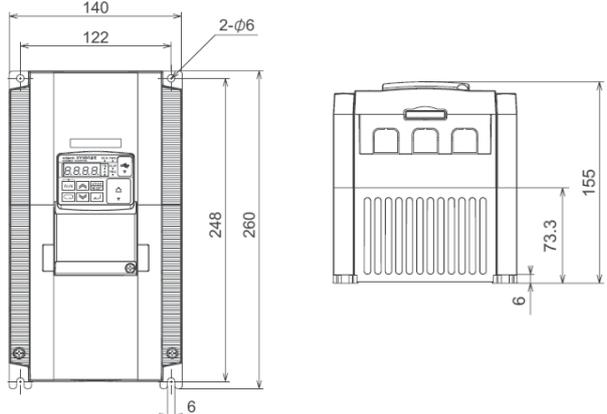
Recommendable replacement 3G3MX2-A□□□□

3G3MX2-A2002 to A2007 (0.2 to 0.75kW)
3G3MX2-AB002 to AB004 (0.2 to 0.4 kW)

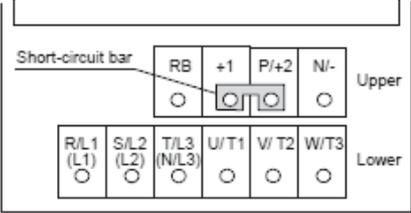
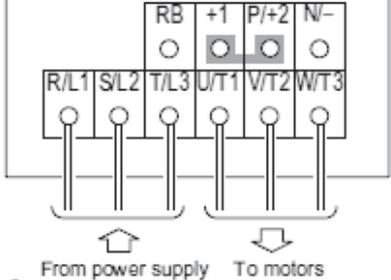
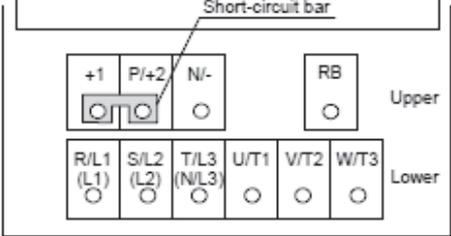
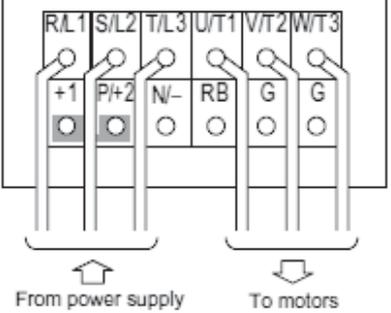
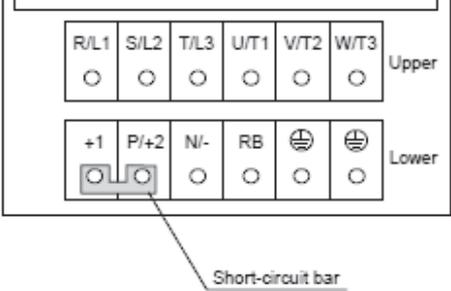


Power supply	Model	W [mm]	H [mm]	D [mm]	D1 [mm]
1-phase 200 V	3G3MX2-AB001	68	128	109	13.5
	3G3MX2-AB002			122.5	27
	3G3MX2-AB004				
3-phase 200 V	3G3MX2-A2001	68	128	109	13.5
	3G3MX2-A2002			122.5	27
	3G3MX2-A2004				
	3G3MX2-A2007			145.5	50

Dimensions/Mounting Dimensions

Product discontinuation 3G3MX-A□□□□□	Recommendable replacement 3G3MX2-A□□□□□
<p>3G3MX-A2015 to A2037 (1.5 to 3.7kW) 3G3MX-AE015 to AE022 (1.5 to 2.2kW) 3G3MX-A4007 to A4037 (0.75 to 3.7kW)</p>  <p>3G3MX-A4004 (0.4kW) 3G3MX-AE007 (0.75kW)</p>  <p>3G3MX-A2055 to A2075 (5.5 to 7.5kW) 3G3MX-A4055 to A4075 (5.5 to 7.5kW)</p> 	<p>3G3MX2-A2015 to A2022 (1.5 to 2.2kW) 3G3MX2-AB007 to AB002 (0.75 to 2.2kW) 3G3MX2-A4004 to A4030 (0.4 to 3.0kW)</p> <p>3G3MX2-A2037 (3.7kW) 3G3MX2-A4040 (4.0kW)</p>  <p>3G3MX2-A2055 to A2075 (5.5 to 7.5kW) 3G3MX2-A4055 to A4075 (5.5 to 7.5kW)</p> 

Wire Connection

Product discontinuation 3G3MX-A□□□□	Recommendable replacement 3G3MX2-A□□□□
<p>Main circuit terminal block 3G3MX-A2002 to A2007 (0.2 to 0.75kW) 3G3MX-AE002 to AE004 (0.2 to 0.4kW)</p> 	<p>3G3MX2-A2002 to A2037 (0.2 to 3.7kW) 3G3MX2-AB002 to AB022 (0.2 to 2.2kW) 3G3MX2-A4004 to A4040 (0.4 to 4.0kW)</p> 
<p>3G3MX-A2015 to A2037 (1.5 to 3.7kW) 3G3MX-AE007 to AE022(0.75 to 2.2kW) 3G3MX-A4004 to A4037 (0.4 to 3.7kW)</p> 	<p>3G3MX2-A2055 to A2075 (5.5 to 7.5kW) 3G3MX2-A4055 to A4075 (5.5 to 7.5kW)</p> 
<p>3G3MX-A2055 to A2075 (5.5 to 7.5kW) 3G3MX-A4055 to A4075 (5.5 to 7.5kW)</p> 	
<p>Note: Terminal name for 3G3MX-AE□□□□ is as follows: R/L → L1, S/L → L2, T/L3 → N/L3</p>	

Wire Connection

Product discontinuation
3G3MX-A[] [] [] []

Control Circuit Terminals

	Terminal symbol				
Input signal	PSC				
	S1	Monitor signal	AM	Output signal	P1
	S2		SC		P2
	S3	Frequency reference input	FS		PC
	S4		FV		P1
	S5		FI		P2
	S6		FC		PC
	SC				

Control circuit terminal block A

SC	S6	S5	S4	S3	S2	S1	PSC
----	----	----	----	----	----	----	-----

FS	FV	FI	FC	AM	PC	P2	P1
----	----	----	----	----	----	----	----

Control circuit terminal block B

Relay output

MB	MA	MC
----	----	----

Recommendable replacement
3G3MX2-A[] [] [] []

The diagram shows a terminal block with the following sections:

- Communication RS-485:** RS-, S7/EB, S6, S5/TH, S4/GS2, S3/GS1, S2, S1.
- Logic input:** SC, PSC, P24.
- Logic common and power supply:** P1 (EDM), P2.
- Relay output:** MB, MA, MC.
- Other terminals:** RS+, MP, RP, FS, FV, FI, SC, AM, PC.

Labels below the diagram indicate the function of each terminal:

- Communication RS-485: RS-, S7/EB, S6, S5/TH, S4/GS2, S3/GS1, S2, S1.
- Pulse input: RS+, MP, RP.
- Pulse output: FS, FV, FI.
- Analog input and power supply: SC, AM, PC.
- Analog output: P1 (EDM), P2.
- Logic output: PSC, P24.

Rated Performance

Item	Product discontinuation 3G3MX-A[] [] [] [] []	Recommendable replacement 3G3MX2-A[] [] [] [] []
Rated Input Voltage	3G3MX-A2[]: Three-phase 200-240VAC $\pm 10\%$, 50/60Hz $\pm 5\%$ 3G3MX-A4[]: Three-phase 380-480VAC $\pm 10\%$, 50/60Hz $\pm 5\%$ 3G3MX-AE[]: Single-phase/Three-phase 200VAC -10% to 240VAC +10% 50/60Hz $\pm 5\%$	3G3MX2-A2[]: Three-phase 200VAC -15% to 240VAC +10%, 50/60Hz $\pm 5\%$ 3G3MX2-A4[]: Three-phase 380VAC -15% to 480VAC +10%, 50/60Hz $\pm 5\%$ 3G3MX2-AB[]: Single-phase 200VAC -15% to 240VAC +10%, 50/60Hz $\pm 5\%$
Ambient Operating Temperature	-10 to +50°C	-10 to +50°C
Ambient Operating Humidity	20-90%RH (with no condensation)	20-90%RH (with no condensation)
Protective structure	IP20	IP20
Weight	Vary according to the model Refer to User's Manual (Cat. No.I559)	Vary according to the model Refer to User's Manual (Cat. No.I570)

Operation ratings

Item	Product discontinuation 3G3MX-A[] [] [] [] []	Recommendable replacement 3G3MX2-A[] [] [] [] []
Rated output current	Equivalent to 3G3MX2 though it differs according to the model. Example: 3G3MX-A2004 3.0A Refer to User's Manual (Cat. No.I559)	Equivalent to 3G3MX though it differs according to the model. Example: 3G3MX2-A2004 3.0A Refer to User's Manual (Cat. No.I570)
Maximum output frequency	400 Hz (Set it by the parameter).	400 Hz (Set it by the parameter).
Carrier frequency	2 to 14kHz	2 to 15kHz
Braking torque	About 20%-50% (Differ according to the model). (Adjustable to 80-150% by adding external braking resistor.)	About 20%-50% (Differ according to the model). (Adjustable to 80-150% by adding external braking resistor.)
Acceleration/deceleration time	0.01-3000 seconds	0.01-3600 seconds
Overload current rating	150% for 1 min	Heavy load rating (CT): 150%/60 s Light load rating (VT): 120%/60 s
Output frequency range	0.5 to 400Hz	0.10 to 400 Hz (or 1,000 Hz in the high-frequency mode; restrictions apply)
Frequency precision (temperature fluctuation)	Digital command: $\pm 0.01\%$ of the max. frequency Analog command: $\pm 0.2\%$ of the max. frequency (25°C $\pm 10^\circ\text{C}$)	Digital command: $\pm 0.01\%$ of the max. frequency Analog command: $\pm 0.2\%$ of the max. frequency (25°C $\pm 10^\circ\text{C}$)
Frequency setting resolution	Digital setting: 0.1 Hz Analog setting: Max. frequency/1000	Digital setting: 0.01 Hz, Analog setting: One-thousandth of the maximum frequency

Functions and specifications

Item	Product discontinuation 3G3MX-A□□□□□	Recommendable replacement 3G3MX2-A□□□□□
Starting torque	200%/1Hz	200%/0.5 Hz
Modbus communications	Yes	Yes
PID control	Yes	Yes
Overload limit	Yes	Yes
Current suppression	Yes	Yes (Overcurrent suppression)
Multi-step speed	Yes (16 points)	Yes (16 points)
Sensorless vector control	Yes (Auto-tuning)	Yes (Auto-tuning)

Operation methods

Product discontinuation 3G3MX-A□□□□□	Recommendable replacement 3G3MX2-A□□□□□
Operated with the digital operator on the front panel. (LED type, with frequency adjuster volume)	Operated with the digital operator on the front panel. (LED type, without frequency adjuster volume. Optional digital operator with volume 3G3AX-OP01 is available).