

Simple, Compact Inverters JX-series

Replace Guide From 3G3JX to 3G3MX2

3G3MX2- A□□□□ 3G3JX-A□□□□

> Replace Guide

NOTE

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Introduction

This guide provides the reference information for replacement and does not contain safety information and other details that are required for actual use. Thoroughly read and understand the manuals for both the old and new inverters to ensure that the system is used safely. Review the entire contents of these manuals, including all safety precautions, precautions for safe use, and precautions for correct use.

Intended Audience

This guide is intended for the following personnel.

- · Personnel in charge of introducing control equipment
- · Personnel in charge of designing control systems
- · Personnel in charge of installing and maintaining control equipment
- · Personnel in charge of managing control systems and facilities

The personnel must also have the following knowledge.

· Knowledge of electrical systems (an electrical engineer or the equivalent)

Applicable Products

This guide covers the following products.

- · 3G3JX series Inverter
- · 3G3MX2 series Type V1 Inverter

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Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

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Precautions

- When building a system, check the specifications for all devices and equipment that will make up the system and make sure that the OMRON products are used well within their rated specifications and performances. Safety measures, such as safety circuits, must be implemented in order to minimize the risks in the event of a malfunction.
- Thoroughly read and understand the manuals for all devices and equipment that will make up the system to ensure that the system is used safely. Review the entire contents of these manuals, including all safety precautions, precautions for safe use, and precautions for correct use.
- · Confirm all regulations, standards, and restrictions that the system must adhere to.

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Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation.

Related Manuals

Please see the manuals below for related product information. Use these manuals for reference.

Manual name	Cat. No.	Model	Description
3G3JX Series	1558	3G3JX-□□□□□	Describes how to install and wire the inverter, set parameters
Compact Simplified			needed to operate the inverter, and remedies to be taken and
Inverter			inspection methods to be used in case that problems occur.
User's Manual			
3G3MX2 Series Type V1	I585	3G3MX2-□□□□□-V1	Describes how to install and wire the inverter, set parameters
Multi-function			needed to operate the inverter, and remedies to be taken and
Compact Inverter			inspection methods to be used in case that problems occur.
User's Manual			

Revision History

A manual revision code appears as a suffix to the catalog number on the front and back covers of the manual.



Revision code	Date	Revised content				
01	July 2019	Original production				

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1. Target model

(1)	Replaced (old) model
3G(BJX series Compact Simplified Inverter
	3G3JX-□□□□□
(2)	New model
3G(BMX2 Series Type V1 Multi-function Compact Inverter
	3G3MX2-□□□□□-V1

2. Precautions for replacement

- (1) There are some differences between 3G3JX and 3G3MX2-V1. Before replacement, refer to not only this guide but also related product user's manuals.
- (2) 3G3JX has a 3-phase 400-V class 3.7 kW capacitor model. Please replace with a 3-phase 400-V class 4.0 kW capacitor model.
- (3) 3G3JX has single/3-phase 200-V class models. Please replace with single-phase 200-V class models or 3-phase 200-V class models.
- (4) There are some differences between 3G3JX and 3G3MX2-V1 in mounting dimensions and arrangement and function of terminal block. Refer to related product user's manuals.
- (5) For differences between 3G3JX and 3G3MX2-V1 in default parameter values and parameter functions, refer to this guide. For details of functions, refer to related product user's manuals at the time of setting.
- (6) There is no volume control on 3G3MX2-V1. To input commands with the volume control, please use the optional operator 3G3AX-OP01.
- (7) To connect the CX-Drive and 3G3MX2-V1, please use a commercially available USB cable. The 3G3JX dedicated cable 3G3AX-PCAN2 cannot be used with 3G3MX2-V1.
- (8) 3G3JX has a built-in radio noise filter. To use 3G3MX2-V1 under the same installation conditions, please attach an optional radio noise filter.
- (9) Please note that the program of the host controller needs to be changed when replacing 3G3JX using Modbus communication. The digital operator for 3G3JX cannot be used for 3G3MX2-V1.

3. External Dimensions and Mounting dimensions

The following tables show external dimensions and mounting dimensions of 3G3JX and 3G3MX2-V1. You can install multiple 3G3MX2-V1s side by side like 3G3JXs. Note that the external dimensions of 3G3MX2-V1 are smaller than or equal to 3G3JX but the depths (D) of all 3G3MX2-V1 models and the heights (H) of over 5.5 kW models of 3G3MX2-V1 are larger than 3G3JX.

3. 1. External Dimensions

■ 3-phase 200-V class*1

	3G3JX Series							3G3MX2-V1 Series					
Model	Dimensions (mm)			Mounting dimensions (mm)		Model	Dimensions (mm)			Mounting dimensions (mm)			
3G3JX-	W	H	D	W1	H1	Screw hole	3G3MX2-	W	Н	D	W1	H1	Screw hole
A2002	80	155	97.4	67	143	Ф5	A2002-V1	68	128	109	56	118	Ф4.5
A2004	80	155	111.4	67	143	Ф5	A2004-V1	68	128	122.5	0	0	Ф4.5
A2007	80	155	134.4	67	143	Ф5	A2007-V1	68	128	145.5	0	0	Ф4.5
A2015	110	189	159.4	98	176	Ф5	A2015-V1	108	128	170.5	0	0	Ф4.5
A2022	110	189	159.4	98	176	Ф5	A2022-V1	108	128	170.5	0	0	Ф4.5
A2037	110	189	159.4	98	176	Ф5	A2037-V1	140	128	170.5	0	0	Ф4.5
A2055	180	250	169.4	164	235	Ф6	A2055-V1	140	260	155	0	0	Ф6
A2075	180	250	169.4	164	235	Ф6	A2075-V1	140	260	155	0	0	Ф6

■ 3-phase 400-V class

	3G3JX Series							3G3MX2-V1 Series					
Model 3G3JX	Dimensions (mm)		Mounting dimensions (mm)			Model	Dimensions (mm)			Mounting dimensions (mm)			
_	W	Н	D	W1	H1	Screw hole	3G3MX2-	W	Н	D	W1	H1	Screw hole
A4004	110	189	132.4	98	176	Ф5	A4004-V1	108	128	143.5	96	118	Ф4.5
A4007	110	189	159.4	98	176	Ф5	A4007-V1	108	128	170.5	96	118	Ф4.5
A4015	110	189	159.4	98	176	Ф5	A4015-V1	108	128	170.5	96	118	Ф4.5
A4022	110	189	159.4	98	176	Ф5	A4022-V1	108	128	170.5	96	118	Ф4.5
A4037	110	189	159.4	98	176	Ф5	A4040-V1	140	128	170.5	128	118	Ф4.5
A4055	180	250	169.4	164	235	Ф6	A4055-V1	140	260	155	122	248	Ф6
A4075	180	250	169.4	164	235	Ф6	A4075-V1	140	260	155	122	248	Ф6.

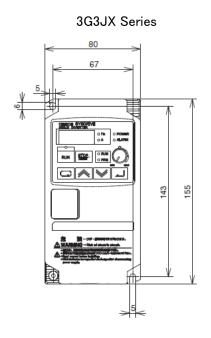
■ Single-phase 200-V class*2

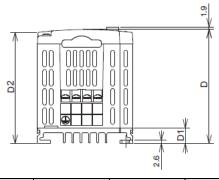
	3G3JX Series						3G3MX2-V1 Series						
Model 3G3JX	Dimensions (mm) Model		Dimensions (mm)			Mounting dimensions (mm)							
-	W	H	D	W1	H1	Screw hole	3G3MAZ-	w	Н	D	W1	H1	Screw hole
AE002	80	155	97.4	67	143	Ф5	AB002-V1	68	128	109	56	118	Ф4.5
AE004	80	155	111.4	67	143	Ф5	AB004-V1	68	128	122.5	56	118	Ф4.5
AE007	110	189	132.4	98	176	Ф5	AB007-V1	108	128	170.5	96	118	Ф4.5

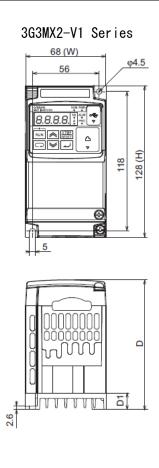
AE015	110	189	159.4	98	176	Ф5	AB015-V1	108	128	170.5	96	118	Ф4.5
AE022	110	189	159.4	98	176	Ф5	AB022-V1	108	128	170.5	96	118	Ф4.5

- *1. When using 3G3JX-AE□ with 3-phase 200 V input, select from 3G3MX2-V1 3-phase 200 V input specifications.
- *2. When using 3G3JX-AE□ with single-phase 200 V input, select from 3G3MX2-V1 single-phase 200 V input specifications.

3. 2. External Dimensions

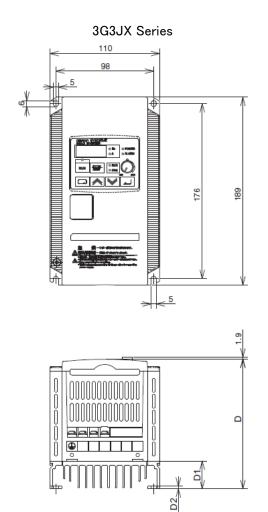


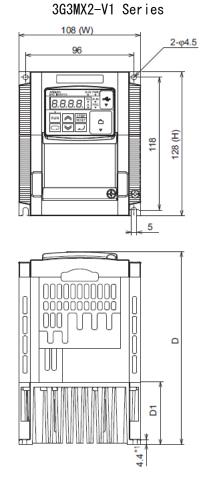




Model 3G3JX-	D [mm]	D1 [mm]	D2 [mm]	
A2002	95.5	13	93	
AE002	90.0	13	93	
A2004	109.5	27	107 130	
AE004	109.5	21		
A2007	132	50		

Model 3G3MX2-	D [mm]	D1 [mm]		
A2002-V1	109	13.5		
AB002-V1	109	13.3		
A2004-V1	122.5	27		
AB004-V1	122.5	21		
A2007-V1	145.5	50		

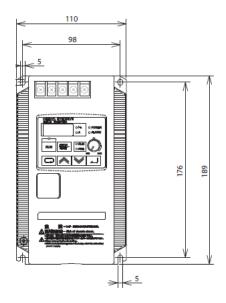


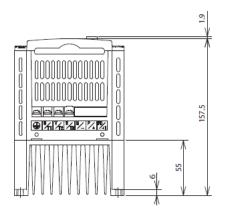


Model	D [mm]	D1 [mm]	D2 [mm]		
3G3JX-		D I Dilling			
A4004	130.5	28	0.0		
AE007	130.5	20	2.6		
A2015					
A2022					
A4007		55			
A4015	157.5		6		
A4022					
AE015					
AF022					

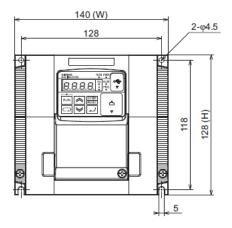
Model 3G3MX2-	D [mm]	D1 [mm]		
A4004-V1	143.5	28		
A2015-V1				
A2022-V1				
A4007-V1				
A4015-V1	170.5	55		
A4022-V1	170.5	55		
AB007-V1				
AB015-V1				
AB022-V1				

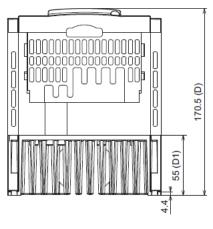
3G3JX Series





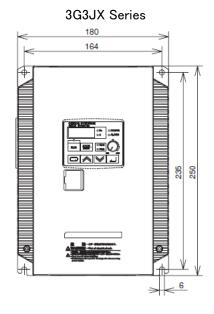
3G3MX2-V1 Series

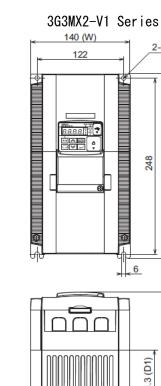




Model
3G3JX-
A2037
A4037

Model
3G3MX2-
A2037-V1
A4040-V1





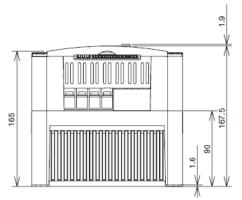
2-φ6

260 (H) 248

155 (D)

73.3 (D1)

6



Model	
3G3JX-	
A2055	
A2075	
A4055	
A4075	

3G3MX2- A2055-V1 A2075-V1 A4055-V1	Model
A2075-V1 A4055-V1	3G3MX2-
A4055-V1	A2055-V1
	A2075-V1
Δ4075-\/1	A4055-V1
A+075 VI	A4075-V1

4. Arrangement and Function of Terminal Block

There are some difference of Arrangement and Function of Terminal Block between 3G3JX and 3G3MX2-V1. Before setting, to refer this section. Refer to related product user's manual.

4. 1. Control Circuit Terminal Block

	3G3JX		3G3MX2-V1	Domesto	
Terminal	Terminal name	Terminal	Terminal name	Remarks	
P24	Internal 24 VDC	P24	Internal 24 VDC		
PSC	Input terminal power	PSC	Input terminal power	For sink logic input:	
	supply		supply	Short-circuited to P24	
				For source logic input:	
				Short-circuited to SC. To	
				activate contact input via an	
				external power supply,	
				remove the short-circuit bar.	
S1	Multi-function input	S1	Multi-function input	The terminals S3 and S4 are	
S2		S2		shared with the safety input.	
S3		S3		When the safety function	
S4		S4		selector switch is ON, S3	
				and S4 are automatically set	
				to safety input (GS1, GS2).	
S5	Multi-function input	S5 (TH)	Multi-function input	When the Multi-function	
			(External thermistor	Input S5 Selection (C005) is	
			input used in	set to 19 (TH: PTC	
			common)	thermistor thermal	
				protection), the inverter will	
				trip if the external thermistor	
				detects a temperature error.	
				(The inverter trips when the	
				resistance of the thermistor	
				is approximately $3~{\rm k}\Omega$ or	
				higher.)	
SC	Input signal common	SC	Input signal common		
AM	Analog frequency	AM	Multi-function	This terminal can output the	
	monitor/Analog		analog output	specified signal as a 0 to	
	output current		(Voltage)	10-VDC voltage signal.	
	monitor				
FS	Frequency reference	FS	Frequency reference		
	power supply		power supply		
FV	Voltage frequency	FV	Voltage frequency	Frequency reference input	
	reference signal		reference signal	(Analog voltage input)	

FI	Current frequency	FI	Current frequency	Frequency reference input
	reference signal		reference signal	(Analog current input)
FC	Frequency reference	SC	Input signal common	In 3G3MX2-V1, common
	common			terminal for the internal
				power supply, digital input,
				and analog I/O terminals.
P1	Multi-function	P1	Multi-function	This terminal is automatically
	output terminal		output terminal	set to P1 (EDM: Safety
			(Safety monitor	monitor signal) when the
			terminal used in	EDM function selector
			common)	switch is turned ON.
PC	Output signal	PC	Output signal	
	common		common	
MA	Relay output	MA	Relay output	
MB	signal	MB	terminal	
MC		MC	Relay output	
			common	
SP	Sent and received	RS+	Modbus terminal(+)	In 3G3JX, it is located in the
	data: Positive side			RJ45 connector for digital
				operator connection.
SN	Sent and received	RS-	Modbus terminal(-)	
	data: Negative side			

5. Functional difference

5.1. Dual duty rating

3G3MX2-V1 supports the dual duty rating: heavy load (CT) and light load (VT) that allows the inverter to drive a motor whose capacity is one size large. Heavy load (CT) is used in this guide.

Heavy load (CT)	This mode is for general loads that temporarily exceed the rated		
	torque during acceleration and deceleration.		
Light load (VT)	This mode is for a fan, pump, or other device that operates at the rated		
	motor torque or lower. With a load tolerance of 120% (of rated		
	torque)/min, the inverter can drive a motor that is one size larger.		

5. 2. Modbus communication

Some Modbus addresses differ between 3G3JX and 3G3MX2-V1.

In order to operate correctly, refer to the *3G3MX2-V1 User's Manual* for the addresses and parameter settings and change not only parameter settings but also PLC/PC programs.

6. Parameter List

6.1. The difference of parameter arrangement, parameter name and default value

There are some difference of Parameter name, settings, number, date range and arrangement between 3G3JX and 3G3MX2-V1. Before setting, to refer this section. Refer to related product user's manuals.

3G3JX		3G3MX2-V1					
Name	Parameter	Default	Parameter	Default	Remark		
Frequency reference	No. A001	setting 00: Digital Operator (FREQ	No. A001	setting 02: Digital Operator			
selection		adjuster) 02: Switches between		- '	The initial value differs because there is no		
FV/FI selection	A005	FV/FREQ adjuster via terminal AT	A005	00: Switch between FV (Voltage) and FI (Current)	adjuster on 3G3MX-V1.		
Jogging stop selection	A039	00: Free-run stop	A039	04: Deceleration stop on jogging stop/Enabled during operation	Set A039 to 03 to be the same setting as 3G3JX.		
Torque boost selection	A041	00: Manual torque boost only	A041	01: Automatic torque boost	In addition to manual torque boost, 3G3MX-V1 has automatic torque boost enabled by default.		
Manual torque boost voltage	A042	5	A042	1	For applications with excessive starting torque, such as fans or pumps, turn off automatic torque		
Manual torque boost frequency	A043	2.5	A043	5	boost.		
Acceleration time 2	A092	15	A092	10	Set A092 to 15 to be the same setting as 3G3JX.		
Deceleration time 2	A093	15	A093	10	Set A093 to 15 to be the same setting as 3G3JX.		
Acceleration pattern selection	A097	00: Line	A097	01: S-shape curve	Set A097 to 00 to be the same setting as 3G3JX.		
Deceleration pattern selection	A098	00: Line	A098	01: S-shape curve	Set A098 to 00 to be the same setting as 3G3JX.		
FI start ratio	A103	0	A103	20	Set A103 to 0 to be the same setting as 3G3JX.		
FI start selection	A105	01: 0 Hz start	A105	00: FI Start Frequency (A101)	Set A105 to 01 to be the same setting as 3G3JX.		
Operation frequency input A setting	A141	01: Digital Operator (FREQ adjuster)	A141	02: Input FV (Voltage)	Set A141 to 01 to be the same setting as 3G3JX.		
Operation frequency input B setting	A142	2: FV 入力	A142	03: Input FI (Current)	Set A142 to 02 to be the same setting as 3G3JX.		
2nd frequency reference selection	A201	00: Digital Operator (FREQ adjuster)	A201	02: Digital Operator	Set A201 to 00 to be the same setting as 3G3JX.		
2nd torque boost selection	A241	00: Manual torque boost only	A241	01: Automatic torque boost	In addition to manual torque boost, 3G3MX-V1		
2nd manual torque boost voltage	A242	0	A242	1	has automatic torque boost enabled by default. For applications with excessive starting torque,		
2nd manual torque boost frequency	A243	0	A243	5	such as fans or pumps, turn off automatic torque boost.		
2nd acceleration time 2	A292	15	A292	10	Set A292 to 15 to be the same setting as 3G3JX.		
2nd deceleration time 2	A293	15	A293	10	Set A293 to 15 to be the same setting as 3G3JX.		
Electronic thermal	B013	00: Reduced torque	2012	01: Constant torque			
characteristics selection	BU13	characteristics 1	B013	characteristics	Set B013 to 00 to be the same setting as 3G3JX.		
Starting voltage of non- stop function at momentary power interruption	B051	0	B051	220	Set B051 to 0.0 to be the same setting as 3G3JX.		
Stop deceleration level of non-stop function at momentary power interruption	B052	0	B052	360	Set B052 to 0.0 to be the same setting as 3G3JX.		
Overvoltage protection integral time during deceleration	B056	0.2	B134	1	Set B134 to 0.2 to be the same setting as 3G3JX.		
Carrier frequency	B083	3	B083	10	Set B083 to 3.0 to be the same setting as 3G3JX.		
Initialization selection	B084	00: Clears the trip monitor	B084	00: Initialization disabled	Set B084 to 01 to be the same setting as 3G3JX.		
Overvoltage LAD stop function level setting	B131	380	B096	360	Set B096 to 380 to be the same setting as 3G3JX.		
2nd electronic thermal characteristics selection	B213	00: Reduced torque characteristics 1	B213	01: Constant torque characteristics	Set B213 to 00 to be the same setting as 3G3JX.		
Overvoltage protection function selection during deceleration	B133	00: Disabled	B130	01: Enabled (DC voltage kept constant)	Set B130 to 00 to be the same setting as 3G3JX.		
Automatic carrier reduction	B150	00: Disabled	B089	01: Enabled (dependent on current)	Set B089 to 0 to be the same setting as 3G3JX.		
AM selection	C028	00: Output frequency	C028	07: LAD frequency	Set C028 to 00 to be the same setting as 3G3JX.		
Overload warning level	C041	1.4	C041	1.84	Set C041 to rated current to be the same setting as 3G3JX.		
Communication speed selection (Baud rate selection)	C071	4: 4800bps	C071	5: 9600bps	Set C071 to 04 to be the same setting as 3G3JX.		
Reset selection	C102	00: Trip reset at power-on	C102	02: Enabled only during trip (Reset at power-on)	Set C102 to 00 to be the same setting as 3G3JX.		
Logic operation function B input	C142	01: FA1 (constant speed arrival signal)	C143	00: RUN (Signal during RUN)	Set C143 to 02 to be the same setting as 3G3JX.		
Output frequency setting/monitor	F001	0	F001	6	Set F001 to 0 to be the same setting as 3G3JX.		

6. 2. The difference of multi-function Input Settings

There are some difference of multi-function Input Settings between 3G3JX and 3G3MX2-V1. Before setting, to refer the following list. Refer to related product user's manuals.

		3G3JX	3G3JX 3G3MX2-V1			
Data No.	Code	Function name	Code	Function name		
0	FW	forward	FW	Forward		
1	RV	reverse	RV	Reverse		
2	CF1	multi-step speed setting binary 1	CF1	Multi-step speed setting binary 1		
3	CF2	Multi-step speed setting binary 2	CF2	Multi-step speed setting binary 2		
4	CF3	multi-step speed setting binary 3	CF3	Multi-step speed setting binary 3		
5	CF4	multi-step speed setting binary 4	CF4	Multi-step speed setting binary 4		
6	JG	jogging	JG	Jogging		
7	DB	external DC injection braking	DB	External DC injection braking		
8	SET	2nd control	SET	2nd control		
9	2CH	2-step acceleration/deceleration	2CH	2-step acceleration/deceleration		
11	FRS	free-run stop	FRS	Free-run stop		
12	EXT	external trip	EXT	External trip		
13	USP	USP function	UPS	Power recovery restart prevention function		
14	-	-	CS	Commercial switching		
15	SFT	soft lock	SFT	Soft lock		
16	AT	analog input switching	AT	Analog input switching		
18	RS	reset	RS	Reset		
19	PTC	thermistor input	TH	PTC thermistor thermal protection		
20	STA	3-wire start	STA	3-wire start		
21	STP	3-wire stop	STP	3-wire stop		
22	F/R	3-wire forward/reverse	F/R	3-wire forward/reverse		
23	PID	PID enabled/disabled	PID	PID disabled		
24	PIDC	PID integral reset	PIDC	PID integral reset		
27	UP	UP/DWN function accelerated	UP	Remote operation accelerated		
28	DWN	UP/DWN function decelerated	DWN	Remote operation decelerated		
29	UDC	UP/DWN function data clear	UDC	Remote operation data clear		
31	OPE	forced operator	OPE	Forced operator function		
50	ADD	frequency addition	ADD	Set frequency A145 addition		

51	F-TM	forced terminal block	F-TM	Forced terminal block		
52	RDY	ready function	ATR	Torque command input permission		
53	SP-SET	special 2nd function	KHC	Integrated power clear		
64	EMR	emergency shutoff	-	-		
255	No	_	no	No allocation		
233	function		no	No allocation		

6.3. The difference of multi-function Output Settings

There are some difference of multi-function Output Settings between 3G3JX and 3G3MX2-V1. Before setting, to refer the following table. Refer to related product user's manuals.

		3G3JX	3G3MX2-V1			
Data No.	Code	Function name	Code	Function name		
0	RUN	signal during RUN	RUN	Signal during RUN		
1	FA1	constant speed arrival signal	FA1	Constant speed arrival signal		
2	FA2	over set frequency arrival signal	FA2	Set frequency exceeded signal		
3	OL	overload warning	OL	Overload warning		
4	OD	excessive PID deviation	OD	Excessive PID deviation		
5	AL	alarm output	AL	Alarm signal		
6	Dc	disconnection detection	FA3	Set-frequency only signal		
7	FBV	PID FB status output	OTQ	Overtorque/Undertorque signal		
8	NDc	network error	-	-		
9	LOG	logic operation output	t UV Signal during u			
10	ODc	DDc Do not use.		Torque limit		
43	LOC	light load detection signal	LOC	Low current signal		

7. Modbus Communication Data Correspondence List

There are some difference of Modbus Communication Coil Number and Register Number between 3G3JX and 3G3MX2-V1. Adjust the program of the host controller after referring to the table below and check the operation. In addition, be sure to refer to the user's manuals for each inverter.

7.1. Coil Number

			3G3JX	3	G3MX
Item	R/W	Description			Modbus coil
	'		Coil No.	Coil No.	spec. No.
RUN command		1: Run 0: Stop (Enabled when A002 = 03)	0001h	0001h	0000h
Rotation direction command		1: Reverse 0: Forward (Enabled when A002 = 03)	0002h	0002h	0001h
External Trip (EXT)	R/W	1: Trip	0003h	0003h	0002h
Trip reset (RS)		1: Reset	0004h	0004h	0003h
Multi-function Input 1			0007h	0007h	0006h
Multi-function Input 2		1 . ON	0008h	0008h	0007h
Multi-function Input 3		1 : ON	0009h	0009h	0008h
Multi-function Input 4		0 : OFF	000Ah	000Ah	0009h
Multi-function Input 5			000Bh	000Bh	000Ah
Operation status		1: Run 0: Stop (Interlocked with d003)	000Eh	000Fh	000Eh
RUN direction		1: Reverse 0: Forward (Interlocked with d003)	000Fh	0010h	000Fh
Inverter ready		1: Ready 0: Not ready	0010h	0011h	0010h
AL (Alarm signal)		1: ON 0: OFF	0014h	0018h	0017h
OD (Excessive PID deviation)			0015h	0017h	0016h
OL (Overload warning)	R		0016h	0016h	0015h
FA2 (Set frequency exceeded signal)		1 : ON	0017h	0015h	0014h
FA1 (Constant speed arrival signal)		0 : OFF	0018h	0014h	0013h
RUN (During RUN)	1		0019h	0013h	0012h
During data write		1: Writing 0: Normal	001Ah	0049h	0048h
CRC error			001Bh	004Ah	0049h
Overrun error Framing error		1. Error	001Ch	004Bh	004Ah
		1: Error	001Dh	004Ch	004Bh
Parity error		0: No error	001Eh	004Dh	004Ch
Checksum error			001Fh	004Eh	004Dh

7.2. Register Number

In 3G3MX2-V1, (Register address) = (Register number) -1 .

			3G3JX				3G3MX2-V1					
Function name	Register No.	Parameter No.	Monitor or setting data	Data resolution	Register No.	Parameter No.	Monitor or setting data	Data resolution				
Frequency reference	0002h	-	0 ~ 4000	0.1[Hz]	0001h	F001(HIGH)	0 to Maximum frequency	0.01[Hz]				
(Enable when A001 = 03) Inverter status	0003h	-	00: Default 02: Stop 03: Run 04: Free-run stop (FRS) 05: Jogging 06: DC injection braking 07: Retry 08: Trip 09: Undervoltage	-	0002h 0003h	-	0: Initial status 2: Stop 3: Run 4: Free-run stop 5: Jogging 6: DC injection braking 8: Trip 9: During UV	-				
PID feedback (Enable when A076 = 02)	0005h	-	0 ~ 1000	0.1[%]	0006h	-	0~10000	0.01[%]				
Output frequency monitor	1002h	d001	0 ~ 4000	0.1[Hz]	1001h		0~40000 (In the high-frequency	0.01[Hz]				
Output current monitor	1003h	d002	0 ~ 2000	0.1[%]	1002h 1003h	d001(LOW)	mode : ∼58000) 0∼65530	0.01[A]				
Rotation direction monitor	1004h	d003	00: Stop 01: Forward 02: Reverse	-	1004h	d003	0: Stop 1: Forward 2: Reverse	-				
PID feedback value monitor	1005h	d004(MSB)			1005h	d004(HIGH)						
(A075 PID scale)	1006h	d004(LSB)	0 ~ 999900	0.01[%]	1006h	d004(LOW)	0~100000	0.1				
	100011	400 I(LSB)	0 to 63		100011	d001(2011)	2º : Terminal S1					
Multi-function input monitor	1007h	d005	Multi-function input status, Bit 0 = [1] to Bit 4 = [5]	-	1007h	d005	\sim 2 6 : Terminal S7/EB	ビット				
Multi-function output monitor	1008h	d006	0 to 7 Multi-function output status, Bit 0 = [P1] Bit 1 = Not used. Bit 2 = [MA]	-	1008h	d006	2^0 : Terminal P1 \sim 2^1 : Terminal P2 2^6 : Relay output terminal MA	ピット				
Output frequency monitor		d007(MSB) d007(LSB)	0 ~ 3996000	0.01	1009h 100Ah		0~3999600 (In the high-frequency	0.01				
(after conversion) Output voltage monitor	100Ah 100Ch	d007(LSB)	0 ~ 20000	0.01[%]	100An 1011h	d007(LOW)	mode : ~5799420) 0~6000	0.1[V]				
Total RUN time	100Eh	d016(MSB)		1[h]	1015h	d016(HIGH)	0~999000	1[h]				
	100Fh 1010h	d016(LSB) d017(MSB)			1016h 1017h	d016(LOW) d017(HIGH)						
Power ON time monitor	1011h	d017(LSB)	0 ~ 999999	1[h]	1018h	d017(LOW)	0~999000	1[h]				
Fin temperature monitor Fault frequency monitor	116Ah 0011h	d018 d080	0 ~ 2000 0 ~ 65535	0.1[℃]	1019h 0011h	d018 d080	-200~+1500 0~65535	0.1 [°C] 1 [@]				
DC voltage monitor	116Ch	d102	0 ~ 9999	0.1[V]	1026h	d102	0~10000	0.1[V]				
Electronic thermal monitor	116Dh	d104	0 ~ 1000	0.1[%]	1028h	d104	0~1000	0.1[%]				
	0012h		Trip monitor 1: Factor code	-	0012h 0013h 0014h	+	Fault Monitor 1 Fault Fault Monitor 1 Inverter 0~40000(LOW)	-				
	0014h			0.1[Hz]	0015h	1	0~58000(HIGH)	0.01[Hz]				
Fault monitor 1	0016h 0017h			0016h		d081	Trip monitor 1: Current Trip monitor 1: Voltage	0.1[A] 1[V]	0016h 0017h	d081	Output Current DC Voltage	0.01[A] 0.1[V]
	0017h		Trip monitor 1: Run time (MSB)		0017H	1	Total RUN Time (HIGH)					
	0019h	İ	Trip monitor 1: Run time (LSB)	1[h]	0019h	1	Total RUN Time (LOW)	1[h]				
	001Ah	Ī	Trip monitor 1: ON time (MSB)	1[h]	001Ah		Total Power ON Time (HIGH)	1[h]				
	001Bh		Trip monitor 1: ON time (LSB)	1[11]	001Bh		Total Power ON Time (LOW)	1[11]				
	001Ch		Trip monitor 2: Factor code	-	001Ch 001Dh	+	Fault Monitor 1 Fault Fault Monitor 1 Inverter Status	-				
	001Eh		Trip monitor 2: Frequency	0.1[Hz]	001Eh]	0~40000(LOW)	0.01[Hz]				
Fault monitor 2	0020h	d082	Trip monitor 2: Current	0.1[A]	001Fh 0020h	d082	0~58000(HIGH) Output Current	0.01[A]				
	0021h		Trip monitor 2: Voltage	1[V]	0021h		DC Voltage	0.1[V]				
	0022h		Trip monitor 2: Run time (MSB)	1[h]	0022h		Total RUN Time (HIGH)	1[h]				
	0023h		Trip monitor 2: Run time (LSB)	1[11]	0023h		Total RUN Time (LOW)	1[11]				
	0024h	l T	Trip monitor 2: ON time (MSB) Trip monitor 2: ON time (LSB)	1[h]	0024h 0025h	1	Total Power ON Time (HIGH) Total Power ON Time (LOW)	1[h]				
	0025h 0026h		Trip monitor 3: Factor code	-	0025h 0027h		Fault Monitor 1 Fault Fault Monitor 1 Inverter	-				
	0028h		Trip monitor 3: Frequency	0.1[Hz]	0028h 0029h	1	0~40000(LOW) 0~58000(HIGH)	0.01[Hz]				
Fault monitor 3	002Ah	d083	Trip monitor 3: Current	0.1[A]	002Ah	d083	Output Current	0.01[A]				
	002Bh	1000	Trip monitor 3: Voltage	1[V]	002Bh	1 2005	DC Voltage	0.1[V]				
	002Ch 002Dh	†	Trip monitor 3: Run time (MSB) Trip monitor 3: Run time (LSB)	1[h]	002Ch 002Dh	†	Total RUN Time (HIGH) Total RUN Time (LOW)	1[h]				
	002DH	†	Trip monitor 3: Null time (LSB)		002DH	†	Total Power ON Time (HIGH)					
	002Fh	†	Trip monitor 3: ON time (LSB)	1[h]	002Fh	1	Total Power ON Time (LOW)	1[h]				
Acceleration time 1	1014h	F002(MSB)			1103h	F002(HIGH)	, ,					
Acceleration tille 1	1015h	F002(LSB)			1104h	F002(LOW)						
2nd acceleration time 1	1501h		1 to 300000		2103h	F202(HIGH)						
	1502h 1016h		The second decimal place is ignored when the value is over 10000 (100.0	0.01[s]	2104h 1105h	F202(LOW) F003(HIGH)	0~360000	0.01[s]				
Deceleration time 1	1016h	F003(MSB)			1105h	F003(HIGH)						
2nd decoleration time 1	1503h	F203(MSB)			2105h	F203(HIGH)						
2nd deceleration time 1	1504h	F203(LSB)			2106h	F203(LOW)						
Operator rotation direction	1018h	F004	0: Forward	-	1107h	F004	00: Forward	-				
selection	İ	1	1: Reverse	ı	1	1	01: Reverse	1				

Frequency reference selection	1019h	A001	00: Digital Operator (volume) 01: Terminal 02: Digital Operator (F001) 03: ModBus communication 10: Frequency operation result	-	1201h	A001	00: Volume 01: Control circuit terminal block (Analog input) 02: Digital Operator 03: Modbus communication 04: Option 06: Pulse train frequency 07: DriveProgramming 10: Operation function output	-
RUN command selection	101Ah	A002	01: Terminal 02: Digital Operator 03: ModBus communication	-	1202h	A002	01: Control circuit terminal block (DriveProgramming) 02: Digital Operator 03: Modbus communication 04: Option	-
Base frequency 2nd base frequency	101Bh 150Ch	A003 A203	30. to maximum frequency A004 30. to maximum frequency A204	1[Hz]	1203h 2203h	A003 A203	300 to 1st Maximum Frequency 300 to 2nd Maximum Frequency	0.1[Hz]
Maximum frequency	101Ch	A004	50. to maximum requercy A204		1204h	A004	1st Base Frequency to 4000 (In the	
2nd maximum frequency	150Dh	A204	30 ~ 400	1[Hz]	2204h	A204	high-frequency mode : ~5800) 1st Base Frequency to 4000 (In the	0.1[Hz]
FV/FI selection	101Dh	A005	02: Switches between FV/VR via terminal AT 03: Switches between FI/VR via terminal AT 04: Terminal FV 05: Terminal FI	-	1205h	A005	high-frequency mode: ~5800) 00: Switch between FV and FI 02: Switch between FV and volume 03: Switch between FI and volume	-
FV start frequency	1020h	A011			120Bh 120Ch	A011(HIGH) A011(LOW)	0~40000	
FV end frequency	1022h	A012	0 ~ 4000	0.1[Hz]	120Dh	A012(HIGH)	(In the high-frequency mode : \sim 58000)	0.01[Hz]
FV start ratio	1023h	A013	0 ~ 100	1[%]	120Eh 120Fh	A012(LOW) A013	0~100	1[%]
FV end ratio FV start selection	1024h 1025h	A014 A015	00: Start frequency A011	-[]	1210h 1211h	A014 A015	00: FV Start Frequency (A011)	-[]
			01: 0 Hz	_			01: 0 Hz 1 to 30/31 (500-ms filter with ±0.1-	
FV, FI sampling	1026h	A016	1 ~ 17	-	1212h 1216h	A016	Hz hysteresis)	1
Multi-step speed reference 0	1029h	A020			1217h	A020(HIGH) A020(LOW)	Starting Frequency to 1st Maximum Frequency	
2nd multi-step speed	4.5051	4220			2216h	A220(HIGH)	0	†
reference 0	150Fh	A220			2217h	A220(LOW)	Starting Frequency to 2nd Maximum Frequency]
Multi-step speed reference 1	102Bh	A021			1218h 1219h	A021(HIGH) A021(LOW)		
Multi-step speed reference 2	102Dh	A022			121Ah 121Bh	A022(HIGH) A022(LOW)		
Multi-step speed reference 3	102Fh	A023			121Ch 121Dh	A023(HIGH)		
Multi-step speed reference 4	1031h	A024			121Eh	A024(HIGH)		
Multi-step speed reference 5	1033h	A025			121Fh 1220h			
Multi-step speed reference 6	1035h	A026			1221h 1222h	A025(LOW) A026(HIGH)		
			0.0/Starting frequency to 4000	0.1[Hz]	1223h 1224h	A026(LOW) A027(HIGH)		0.01[Hz]
Multi-step speed reference 7	1037h	A027			1225h 1226h	A027(LOW) A028(HIGH)	Starting frequency to Maximum	
Multi-step speed reference 8	1039h	A028			1227h	A028(LOW) A029(HIGH)		
Multi-step speed reference 9	103Bh	A029				A029(LOW)		
Multi-step speed reference 10	103Dh	A030			122Bh	A030(HIGH) A030(LOW)		
Multi-step speed reference 11	103Fh	A031			122Ch 122Dh	A031(HIGH) A031(LOW)		
Multi-step speed reference 12	1041h	A032			122Eh 122Fh	A032(HIGH) A032(LOW)		
Multi-step speed reference	1043h	A033			1230h 1231h	A033(HIGH) A033(LOW)		
Multi-step speed reference	1045h	A034			1232h	A034(HIGH)		
Multi-step speed reference	1047h	A035			1233h 1234h	A034(LOW) A035(HIGH)		
Jogging frequency	1048h	A038	0 ~ 999	0.01[Hz]	1235h 1238h	A035(LOW) A038	Starting Frequency to 999 (In the	0.01[Hz]
Jogging stop selection	1049h	A039	00: Free-run stop 01: Deceleration stop 02: DC injection braking stop	-	1239h	A039	high-frequency mode: 10000) O: Free-running on jogging stop/ Disabled during operation O1: Deceleration stop on jogging stop/ Disabled during operation O2: DC injection braking on jogging stop/Disabled during operation O3: Free-running on jogging stop/ Enabled during operation O4: Deceleration stop on jogging stop/ Enabled during operation O5: DC injection braking on jogging	-
Torque boost selection	104Ah	A041	00: Manual torque boost only	_	123Bh	A041	stop/ Enabled during operation 00: Manual torque boost	
2nd torque boost selection Manual torque boost voltage	1510h 104Bh	A241 A042	01: Simple torque boost	0.150/3	223Bh 123Ch	A241 A042	01: Automatic torque boost	0.150/3
2nd manual torque boost Manual torque boost	1511h 104Ch	A242 A043	0 ~ 200	0.1[%]	223Ch 123Dh	A242 A043	0~200	0.1[%]
2nd manual torque boost V/f characteristics selection	1512h 104Dh	A243 A044	0 ~ 500 00: VC	0.1[%]	223Dh	A243 A044	0∼500 00: Constant torque characteristics	0.1[%]
2nd V/f characteristics	1513h	A044 A244	01: 1.7th power of VP	-	123Eh 223Eh	A044 A244	01: Reduced torque characteristics	-
selection	-31311		06: Special VP				02: Free V/f setting	

Output voltage gain	104Eh	A045	20 ~ 100	1[%]	123Fh	A045	20~100	1[%]
2nd output voltage gain	1514h	A245		-1.41	223Fh	A245	00: Disabled	-[]
DC injection braking selection	1051h	A051	00: Disabled 01: Enabled during stop 02: Output frequency <a052 db<="" td=""><td>-</td><td>1245h</td><td>A051</td><td>01: Enabled 01: Enabled 02: Enabled (Operates only at set frequency)</td><td>-</td></a052>	-	1245h	A051	01: Enabled 01: Enabled 02: Enabled (Operates only at set frequency)	-
DC injection braking frequency	1052h	A052	0 ~ 600	0.1[Hz]	1246h	A052	0~6000	0.01[Hz]
DC injection braking delay time	1053h	A053	0 ~ 50	0.1[s]	1247h	A053	0~50	0.1[s]
DC injection braking power	1054h	A054	0 ~ 100	1[%]	1248h	A054	0~100 (70)	1[%]
DC injection braking time	1055h	A055	0 ~ 600	0.1[s]	1249h	A055	0~600	0.1[s]
DC injection braking method	1056h	A056	00: Edge operation	_	124Ah	A056	00: Edge operation	_
selection			01: Level operation 0.0/Frequency lower limit				01: Level operation	
Frequency upper limit	105Ah	A061	: A062 x 10 to Maximum frequency		124Fh 1250h	A061(HIGH) A061(LOW)	1st Frequency Lower Limit to 1st	
			: A004 x 10 0.0/2nd frequency lower limit				Maximum Frequency	1
2nd frequency upper limit	1517h	A261	: A262 x 10 to 2nd max. frequency : A204 x 10		224Fh 2250h	A261(HIGH) A261(LOW)	2nd Frequency Lower Limit to 2nd	
			0.0/Starting frequency	0.1[Hz]	1251h	A062(HIGH)	Maximum Frequency 0	0.01[Hz]
Frequency lower limit	105Bh	A062	: b082 × 10 to Frequency upper limit: A061 × 10		1252h	A062(LOW)	Starting Frequency to 1st Maximum Frequency	
			0.0/Starting frequency		2251h	A262(HIGH)	0	1
2nd frequency lower limit	1518h	A262	: b082 x 10 to 2nd frequency upper		2252h	A262(LOW)	Starting Frequency to 2nd Frequency	
			limit: A261x10		1253h	A063(HIGH)	Upper Limit	
Jump frequency 1	105Dh	A063			1254h	A063(LOW)		
Jump frequency 2	1060h	A065	0 ~ 4000	0.1[Hz]	1256h		0~40000 (In the high-frequency	0.01[Hz]
			•		1257h 1259h	A065(LOW) A067(HIGH)	mode : ∼58000)	
Jump frequency 3	1063h	A067			125Ah	A067(LOW)		
Jump frequency width 1	105Eh	A064			1255h	A064	0~1000 (In the high-frequency	
Jump frequency width 2	1061h	A066	0 ~ 100	0.1[Hz]	1258h	A066	mode : ~10000)	0.01[Hz]
Jump frequency width 3	1064h	A068			125Bh	A068	00: Disabled	
DID selection	10006	4.071	00: Disabled		1255	4071	01: Enabled	
PID selection	1068h	A071	01: Enabled	-	125Fh	A071	02: Enabled (Reverse output	_
DID D '-	1000	4072	2 50	0.4	42601	4072	enabled)	0.04
PID P gain PID I gain	1069h 106Ah	A072 A073	$2 \sim 50$ 0 ~ 1500	0.1 0.1[s]	1260h 1261h	A072 A073	0~2500 0~36000	0.01 0.1[s]
PID D gain	106Bh	A073	0 ~ 1000	0.1[s]	1262h	A073	0~10000	0.01[s]
PID scale	106Ch	A075	1 ~ 9999	0.01	1263h	A075	1~9999	0.01
			00: Feedback (FI)				00: Current (FI)	
PID feedback selection	106Dh	A076	01: Feedback (FV) 02: External communication 10: Operation function output	-	1264h	A076	01: Voltage (FV) 02: Modbus communication 03: Pulse train frequency	-
			00. OFF (Decilation Target value				10: Operation function output	
Reverse PID function	106Eh	A077	00: OFF (Deviation = Target value - Feedback value)	_	1265h	A077	00: Disabled (Deviation = Target value – Feedback value)	_
reverse i ib ranction	TOOLII	7.077	01: ON (Deviation = Feedback value - Target value)		120311	7.077	01: Enabled (Deviation = Feedback value Target value)	
PID output limit function	106Fh	A078	0 ~ 1000	0.1[%]	1266h	A078	0~1000	0.1[%]
A. (5)	4.0701		00: Always ON		10501		00: Always ON	
AVR selection	1070h	A081	01: Always OFF 02: OFF during deceleration	-	1269h	A081	01: Always OFF 02: OFF during deceleration	-
AVR voltage selection	1071h	A082	200-V class 0: 200/ 1: 215/ 2: 220/ 3: 230/ 4: 240 400-V class 0: 380/ 1: 400/ 2: 415/ 3: 440/ 4:	-	126Ah	A082	200-V class: 00 (200)/ 01 (215)/ 02 (220)/ 03 (230)/ 04 (240) 400-V class: 05 (380)/ 06 (400)/ 07 (415)/ 08	-
			460/ 5: 480 00: Normal operation				(440)/ 09 (460)/ 10 (480) 00: Normal operation	
RUN mode selection	1072h	A085	01: Energy-saving operation	-	126Dh	A085	01: Energy-saving operation	-
Energy-saving response/	1073h	A086	0 ~ 1000	0.1[%]	126Eh	A086	0~1000	0.1[%]
Acceleration time 2	1074h					A092(HIGH)		
	1075h	A092(LSB)	1 to 300000		1275h	A092(LOW)		
2nd acceleration time 2	1519h 151Ah		The second decimal place is ignored		226Fh 2270h	A292(HIGH) A292(LOW)		
Danalamatian tima 2	1076h		when the value is over 10000 (100.0	0.01 [s]	1276h	A093(HIGH)	0~360000	0.01[s]
Deceleration time 2	1077h	A093(LSB)	seconds).		1277h	A093(LOW)	1	
2nd deceleration time 2	151Bh	A293(MSB			2271h	A293(HIGH)		
2-step acceleration/	151Ch 1078h	A293(LSB) A094			2272h 1278h	A293(LOW) A094	00: Switch via 2CH terminal (multi-	
deceleration selection 2nd 2-step acceleration/			00: Switched via terminal 2CH 01: Switched by setting	-			function input: 09) 01: Switch by setting(A095/ A295/	-
deceleration selection	151Dh	A294	or. Switched by setting		2273h	A294	A096/ A296)	
2-step acceleration	107Ah	A095			1279h 127Ah	A095(HIGH) A095(LOW)		
							†	
frequency 2nd 2-step acceleration					2274h	A295(HIGH)		
	151Fh	A295	0 ~ 4000	0.1[Hz]	2274n 2275h 127Bh	A295(LOW)	$0{\sim}40000$ (In the high-frequency mode : ${\sim}58000$)	0.01[Hz]
2nd 2-step acceleration frequency 2-step deceleration frequency	151Fh 107Ch	A295 A096	0 ~ 4000	0.1[Hz]	2275h 127Bh 127Ch	A295(LOW) A096(HIGH) A096(LOW)		0.01[Hz]
2nd 2-step acceleration frequency 2-step deceleration frequency 2nd 2-step deceleration frequency	151Fh	A295	0 ~ 4000	0.1[Hz]	2275h 127Bh	A295(LOW) A096(HIGH)	mode : ∼58000)	0.01[Hz]
2nd 2-step acceleration frequency 2-step deceleration frequency 2nd 2-step deceleration frequency Acceleration pattern selection	151Fh 107Ch	A295 A096	00: Line	0.1[Hz]	2275h 127Bh 127Ch 2276h	A295(LOW) A096(HIGH) A096(LOW) A296(HIGH)		0.01[Hz]
2nd 2-step acceleration frequency 2-step deceleration frequency 2nd 2-step deceleration frequency Acceleration pattern	151Fh 107Ch 1521h	A295 A096 A296		0.1[Hz] -	2275h 127Bh 127Ch 2276h 2277h	A295(LOW) A096(HIGH) A096(LOW) A296(HIGH) A296(LOW)	mode: ~58000) 00: Line 01: S-shape curve 02: U-shape curve 03: Inverted U-shape curve	0.01[Hz]
2nd 2-step acceleration frequency 2-step deceleration frequency 2nd 2-step deceleration frequency Acceleration pattern selection Deceleration pattern	151Fh 107Ch 1521h 107Dh	A295 A096 A296 A097	00: Line 01: S-shape curve	-	2275h 127Bh 127Ch 2276h 2277h 127Dh 127Eh	A295(LOW) A096(HIGH) A096(LOW) A296(HIGH) A296(LOW) A097 A098 A101(HIGH)	mode: ~58000) 00: Line 01: S-shape curve 02: U-shape curve 03: Inverted U-shape curve 04: EL-S-shape curve	-
2nd 2-step acceleration frequency 2-step deceleration frequency 2nd 2-step deceleration frequency 2nd 2-step deceleration frequency Acceleration pattern selection Deceleration pattern selection	151Fh 107Ch 1521h 107Dh 107Eh	A295 A096 A296 A097 A098	00: Line	0.1[Hz] - 0.1[Hz]	2275h 127Bh 127Ch 2276h 2277h 127Dh 127Eh 1281h 1282h 1283h	A295(LOW) A096(HIGH) A096(LOW) A296(HIGH) A296(LOW) A097 A098 A101(HIGH) A101(LOW) A102(HIGH)	mode: ~58000) 00: Line 01: S-shape curve 02: U-shape curve 03: Inverted U-shape curve	0.01[Hz]
2nd 2-step acceleration frequency 2-step deceleration frequency 2nd 2-step deceleration frequency 2nd 2-step deceleration frequency Acceleration pattern selection Deceleration pattern selection FI start frequency	151Fh 107Ch 1521h 107Dh 107Eh	A295 A096 A296 A097 A098 A101	00: Line 01: S-shape curve	-	2275h 127Bh 127Ch 2276h 2277h 127Dh 127Eh 1281h 1282h	A295(LOW) A096(HIGH) A096(LOW) A296(HIGH) A296(LOW) A097 A098 A101(HIGH) A101(LOW)	mode: ~58000) 00: Line 01: S-shape curve 02: U-shape curve 03: Inverted U-shape curve 04: EL-S-shape curve 0~40000 (In the high-frequency	-

			00. Ctart fragrance A101				100. FI Start Francisco (A101)	
FI start selection	1085h	A105	00: Start frequency A101 01: 0 Hz 00: Digital Operator (F001)	-	1287h	A105	00: FI Start Frequency (A101) 01: 0 Hz 00: Digital Operator (A020/A220)	-
Operation frequency input A setting	108Eh	A141	01: Digital Operator (volume) 02: Input FV		12AFh	A141	01: Volume 02: Voltage (FV) input	
Operation frequency input B setting	108Fh	A142	03: Input FI 04: RS485 communications	-	12B0h	A142	03: Current (FI) input 04: Modbus communication 05: Option	-
Operator selection	1090h	A143	00: Addition (A + B) 01: Subtraction (A - B) 02: Multiplication (A × B)	-	12B1h	A143	07: Pulse train frequency 00: Addition (A141 + A142) 01: Subtraction (A141 - A142) 02: Multiplication (A141 × A142)	-
Frequency addition amount	1091h	A145	0 ~ 4000	0.1[Hz]	12B3h 12B4h		0~40000 (In the high-frequency mode: ~58000)	0.01[Hz]
Frequency addition direction	1093h	A146	00: Adds the A145 value to the output	-	12B5h	A146	00: Frequency reference + A145 01: Frequency reference - A145	-
VR start frequency	1095h	A151	0 ~ 4000	0.1[Hz]	12C6h 12C7h		0~40000 (In the high-frequency mode : ~58000)	0.01[Hz]
VR end frequency	1097h	A152	0 ~ 4000	0.1[Hz]	12C8h 12C9h	A162(HIGH)	$0\sim$ 40000 (In the high-frequency mode : \sim 58000)	0.01[Hz]
VR start ratio	1098h	A153	$0 \sim 100$	1[%]	12CAh	A163	0 to VR End Ratio	1[%]
VR end ratio	1099h	A154	0 ~ 100	1[%]	12CBh	A164	VR Start Ratio to 100	1[%]
VR start selection	109Ah	A155	0, 1	-	12CCh	A165	00: VR Start Frequency (A161) 01: 0 Hz	-
Retry selection	10A5h	b001	00: Alarm 01: 0 Hz start 02: Frequency matching restart 03: Trip after frequency matching deceleration stop	-	1301h	b001	00: Trip 01: 0-Hz restart 02: Frequency matching restart 03: Trip after frequency matching deceleration stop 04: Frequency pull-in restart	-
Allowable momentary power	10A6h	b002	3 ~ 250	0.1[s]	1302h	b002	3~250	0.1[s]
Retry wait time	10A7h	b003	3 ~ 1000 00: Disabled	0.1[s]	1303h	b003	3~1000 00: Disabled	0.1[s]
Momentary power interruption/undervoltage trip during stop selection	10A8h	b004	01: Enabled	-	1304h	b004	01: Enabled 02: Disabled during stop and deceleration stop by turning off the RUN command	-
Momentary power interruption retry time	10A9h	b005	00: 16 times 01: No limit	ı	1305h	b005	00: 16 times 01: No limit	-
Starting frequency at frequency pull-in restart	1170h	b011	00: Frequency at interruption 01: Max. frequency 02: Set frequency	-	131Fh	b030	00: Frequency at interruption 01: Maximum frequency 02: Set frequency (Frequency reference)	-
Electronic thermal level	10ADh	b012	2000 to 10000	0.01[%]	130Dh	b012	200~1000	0.1[%]
2nd electronic thermal level	1527h	b212	Set the rated current to 10000	0.01[70]	230Ch	b212	200 1000	0.1[/0]
Electronic thermal characteristics selection 2nd electronic thermal	10AEh	b013	00: Reduced torque characteristics 1 01: Constant torque characteristics	-	130Eh	b013	00: Reduced torque characteristics 01: Constant torque characteristics	-
characteristics selection	1528h	b213	02: Reduced torque characteristics 2		230Dh	b213	02: Free setting	
Overload limit selection	10B5h	b021	00: Disabled	-	1316h	b021	00: Disabled	_
2nd overload limit selection	1529h	b221	01: Enabled in acceleration/constant		2316h	b221	01: Enabled during	
Overload limit level 2nd overload limit level	10B6h 152Ah	b022 b222	00: Disabled 01: Enabled in acceleration/constant	0.01[%]	1317h 2317h	b022 b222	200~2000	0.1[%]
Overload limit parameter	10B7h	b023			1318h	b023		
2nd overload limit parameter	152Bh	b223	1 ~ 300	0.1[s]	2318h	b223	1~30000	0.1[s]
Deceleration rate constant	1171h	b029	1 ~ 30000	0.1[s]	131Eh	b029	1~30000	0.1[s]
Frequency pull-in restart	1172h	b030	200 ~ 20000	0.01[%]	131Dh	b028	200~2000	0.1[%]
Soft lock selection	10BCh	b031	00: Data other than b031 cannot be changed when terminal SFT is ON. 01: Data other than b031 and the specified frequency parameter cannot be changed when terminal SFT is ON. 02: Data other than b031 cannot be changed. 03: Data other than b031 and the specified frequency parameter cannot be changed. 10: Data other than parameters changeable during operation cannot be changed.	-	1320h	b031	00: Data other than b031 cannot be changed when terminal SFT is ON. 01: Data other than b031 and the set frequency cannot be changed when terminal SFT is ON. 02: Data other than b031 cannot be changed. 03: Data other than b031 and set frequency cannot be changed. 10: Data can be changed during RUN.	-
Selection of non-stop function at momentary power interruption	10C9h	b050	00: Disabled 01: Enabled (Stop) 02: Enabled (Restart)	-	1334h	b050	01: Enabled (Deceleration stop) 02: Enabled (Constant voltage, without recovery) 03: Enabled (Constant voltage, with recovery)	-
Starting voltage of non-stop function at momentary power interruption	10CAh	b051	0 ~ 10000	0.1[V]	1335h	b051	0~10000	0.1[V]
Stop deceleration level of non-stop function at momentary power interruption	10CBh	b052	0 ~ 10000	0.1[V]	1336h	b052	0~10000	0.1[V]
Deceleration time of nonstop function at momentary	10CCh	b053	1 ~ 30000	0.1[s]	1337h 1338h	b053(HIGH) b053(LOW)	1~360000	0.01[s]
Deceleration starting width of non-stop function at momentary power interruption	10CEh	b054	0 ~ 100	0.1[Hz]	1339h	b054	$0{\sim}1000$ (In the high-frequency mode : 10000)	0.01[Hz]
Overvoltage protection proportional gain during deceleration	1173h	b055	2 ~ 50	0.1	1388h	b133	0~500	0.01
Overvoltage protection integral time during deceleration	1174h	b056	0 ~ 1500	0.1[s]	1389h	b134	0~1500	0.1[s]
			0.7				•	

				T			1∼999 (In the high-frequency	T
Starting frequency	10D1h	b082	5 ~ 99	0.1[Hz]	1355h	b082	mode : ~10000)	0.01[Hz]
Carrier frequency	10D2h	b083	20 ~ 120	0.1[kHz]	1356h	b083	20~150 (100)	0.1[kHz]
Initialization selection	10D3h	b084	00: Clears the trip monitor 01: Initializes data 02: Clears the trip monitor and initializes data	-	1357h	b084	00: Initialization disabled 01: Clearing fault monitor 02: Initialize data 03: Clear fault monitor + Initialize data 04: Clear fault monitor + Initialize data + Clear DriveProgramming	-
Initialization parameter selection	10D4h	b085	00: Fixed Do not change.	-	1358h	b085	Do not change the default 00.	-
Frequency conversion	10D5h	b086	1 ~ 999	0.1	1359h	b086	1~9999	0.01
STOP key selection	10D6h	b087	00: Enabled 01: Disabled	-	135Ah	b087	00: Enabled 01: Disabled 02: Only RESET enabled	-
Free-run stop selection	10D7h	b088	00: 0 Hz start 01: Frequency pull-in restart	-	135Bh	b088	00: 0-Hz restart 01: Frequency matching restart 02: Frequency pull-in restart	-
Stop selection	10DAh	b091	00: Deceleration→Stop 01: Free-run stop	-	135Eh	b091	00: Deceleration stop 01: Free-run stop	-
Cooling fan control	10DBh	b092	00: Always ON 01: ON during RUN 02: Depends on the fin temperature	-	135Fh	b092	00: Always enabled 01: Enabled only during operation (including 5 minutes after power on/stop) 02: Dependent on cooling fin temperature	-
Overvoltage protection function selection during deceleration	1176h	b133	00: Disabled 01: Enabled	-	1385h	b130	00: Disabled 01: DC voltage kept constant 02: Acceleration enabled	-
Overvoltage protection level setting during deceleration	1177h	b134	200-V class: 330. to 395. 400-V class: 660. to 790.	1[V]	1386h	b131	200-V class: 330 to 395 400-V class: 660 to 790	1[V]
Overcurrent suppression function	10F7h	b140	00: Disabled 01: Enabled	-	131Ch	b027	00: Disabled 01: Enabled 02: Enabled (at reduced voltage startup)	-
Automatic carrier reduction	10F8h	b150	00: Disabled 01: Enabled	-	135Ch	b089	00: Disabled 01: Enabled (dependent on current) 02: Enabled (dependent on cooling fin temperature)	-

			00: FW				00: FW (Forward)
			01: RV				01: RV (Reverse)
Multi-function input 1	44001		02: CF1		4 4041		02: CF1 (Multi-step speed setting
selection	1103h	C001	03: CF2		1401h	C001	binary 1)
			04:CF3				03: CF2 (Multi-step speed setting binary 2)
			05: CF4 06: JG				04: CF3 (Multi-step speed setting
			07: DB				binary 3)
			08: SET				05: CF4 (Multi-step speed setting
			09: 2CH				binary 4)
2nd multi-function input 1	1532h	C201	11: FRS				06: JG (Jogging)
selection			12: EXT				07: DB (External DC injection
			13: USP				braking)
			15: SFT				08: SET (2nd control)
			16: AT				09: 2CH (2-step
			18: RS				acceleration/deceleration)
Multi-function input 2	1104h	C002	19: PTC terminal 5 only		1402h	C002	11: FRS (Free-run stop)
selection	110411	C002	20: STA		170211	C002	12: EXT (External trip)
			2+1: STP				13: USP (Power recovery restart prevention function)
			22: F/R -23: PID				14: CS (Commercial switch)
			24: PIDC				15: SFT (Soft lock)
			27: UP				16: AT (Analog input switching)
2nd multi-function input 2			28: DWN				18: RS (reset)
selection	1533h	C202	29: UDC				19: TH (PTC thermistor thermal
Selection			31: OPE				protection)
			50: ADD				<c005 only=""></c005>
			51: F-TM				20: STA (3-wire start)
			52: RDY				21: STP (3-wire stop)
			53: SP-SET				22: F/R (3-wire forward/reverse)
Multi-function input 3	1105h	C003	64: EMR(automatically allocated to		1403h	C003	23: PID (PID disabled)
selection			terminal 3 if enabled)				24: PIDC (PID integral reset)
			255: NO				27: UP (Remote operation
			1				accelerated) -28: DWN (Remote operation -
				_			decelerated)
							29: UDC (Remote operation data
2nd multi-function input 3							clear)
selection	1534h	C203					31: OPE (Forced operator function)
							32: SF1 (Multi-step speed setting bit
							1)
			<u>-</u>				33: SF2 (Multi-step speed setting bit
							2)
Made Constitution to the A							34: SF3 (Multi-step speed setting bit
Multi-function input 4	1106h	C004			1404h	C004	3)
selection							35: SF4 (Multi-step speed setting bit
							4)
			4				36: SF5 (Multi-step speed setting bit 5)
							37: SF6 (Multi-step speed setting bit
							6)
2nd multi-function input 4	1535h	C204					38: SF7 (Multi-step speed setting bit
selection	133311	C204					7)
							39: OLR (Overload limit switching)
							40: TL (Torque limit enabled)
			1				41: TRQ1 (Torque limit switching 1)
							42: TRQ2 (Torque limit switching 2)
Multi-function input 5	1						44: BOK (Brake confirmation)
selection	1107h	C005			1405h	C005	46: LAC (LAD cancel)
							47: PCLR (Current position clear) 50: ADD (Set frequency A145
							addition)
	+		†				51: F-TM (Forced terminal block)
							52: ATR (Torque reference input
							permission)
2nd multi-function input 5 selection	1536h	C205					53: KHC (Integrated power clear)
Selection							56: MI1 (General-purpose input 1)
							57: MI2 (General-purpose input 2)
	1			1			58: MI3 (General-purpose input 3)
Multi-function input 1	110Bh	C011	4		140Bh	C011	1
Multi-function input 2	110Ch	C012	00 : NO		140Ch	C012	00: NO (NO contact)
Multi-function input 3	110Dh	C013	01 : NC	_	140Dh	C013	01: NC (NC contact)
Multi-function input 4 Multi-function input 5	110Eh	C014 C015	†		140Eh	C014	1
mulu-runcuon Input 5	110Fh	C012			140Fh	C015	1

Multi-function output terminal P1 selection	1114h	C021	00: RUN 01: FA1 02: FA2 03: OL 04: OD 05: AL 06: Dc 07: FBV 08: NDc 09: LOG 10: ODc(Do not use.) 43: LOC		1415h	C021	00: RUN (During RUN) 01: FA1 (Constant speed arrival signal) 02: FA2 (Set frequency exceeded signal) 03: OL (Overload warning) 04: OD (Excessive PID deviation) 05: AL (Alarm signal) 06: FA3 (Set-frequency only signal) 07: OTQ (Overtorque/Undertorque signal) 07: OTQ (Overtorque/Undertorque signal) 07: TRQ (Torque limit) 11: RNT (RUN time over) 12: ONT (Power ON time over) 13: THM (Electronic thermal warning) 19: BRK (Brake release) 20: BER (Brake error) 21: ZS (0-Hz detection signal) 22: DSE (Excessive speed deviation) 23: POK (Position ready) 24: FA4 (Set frequency exceeded signal 2) 25: FA5 (Set-frequency only signal 2) 26: OL2 (Overload warning 2) 27: FVDc (Analog FV disconnection detection)	
Relay output (MA, MB) function selection	1119h	C026		-	141Ah	C026	28: FIDc (Analog FI disconnection detection) 31: FBV (PID feedback comparison) 32: NDc (Communications disconnection detection) 33: LOG1 (Logic operation output 1) 34: LOG2 (Logic operation output 2) 35: LOG3 (Logic operation output 3) 39: WAC (Capacitor life warning) 40: WAF (Cooling fan life warning) 41: FR (Starting contact signal) 42: OHF (Cooling fin overheat warning) 43: LOC (Low current signal) 44: MO1 (General-purpose output 1) 45: MO2 (General-purpose output 1) 45: MO2 (General-purpose output 3) 50: IRDY (Operation ready) 51: FWR (Forward run) 52: RVR (Reverse run) 53: MJA (Fatal fault signal) 54: WCFV (Window comparator FV) 55: WCFI (Window comparator FV) 55: WFEF (Frequency reference source) 59: REF (RUN command source) 60: SETM (Motor 2 selection) 62: EDM (Safety device monitor signal) 63: OPO (Option)	
AM selection	111Bh	C028	00: F (Output frequency) 01: A (Output current)	-	141Ch	C028	00: Output frequency 01: Output current 02: Output torque 04: Output voltage 05: Input power 06: Electronic thermal load rate 07: LAD frequency 10: Cooling fin temperature 11: Output torque (signed) 13: DriveProgramming (YA(1)) 16: Option (No applicable Option)	-
Multi-function output	111Dh	C031	00 : NO	-	141Fh	C031	00: NO (NO contact)	_
Relay output (MA, MB) Light load signal output mode	1122h 1178h	C036 C038	01 : NC 00: Enabled during acceleration/ deceleration/ constant speed 01: Enabled only during constant speed	-	1424h 1426h	C036 C038	01: NC (NC contact) 00: During acceleration/ deceleration and constant speed 01: Only during constant speed	-
Light load detection level	1179h	C039	0 to 20000	0.01[%]	1427h	C039	0~2000	0.1[%]
Overload warning level 2nd overload warning level	1124h 153Ah	C041 C241	0 to 20000 Set to10000 at rated current	0.01[%]	1429h 2429h	C041 C241	0~2000	0.1[%]
Arrival frequency during acceleration Arrival frequency during	1126h	C042	0 ~ 4000	0.1[Hz]	142Ah 142Bh 142Ch	C042(HIGH) C042(LOW)	0~40000 (In the high-frequency mode : 58000)	0.01[Hz]
deceleration	1128h	C043			142Dh	C043(LOW)		
PID deviation excessive	1129h	C044	$0 \sim 1000$	0.1[%]	142Eh	C044	0~1000	0.1[%]

Communication speed selection (Baud rate selection)	1138h	C071			144Bh	C071	03(2400bps)/ 04(4800bps)/ 05(9600bps)/ 06(19.2kbps)/ 07(38.4kbps)/ 08(57.6kbps)/ 09(76.8kbps)/ 10(115.2kbps)	
Communication station No.	1139h	C072			144Ch	C072	1~247	
Communication parity selection	113Bh	C074			144Eh	C074	00: No/ 01: Even/ 02: Odd	
Communication stop bit selection	113Ch	C075	Do not change through ModBus communication. For setting, refer to		144Fh	C075	1: 1 bit 2: 2 bits	-
Communication error selection	113Dh	C076	"ModBus Setting" (4-78).		1450h	C076	00: Trip 01: Trip after deceleration stop 02: Ignore 03: Free-run stop 04: Deceleration stop	
Communication error timeout	113Eh	C077			1451h	C077	0: Timeout disabled 1 to 9999	0.01[s]
Communication wait time	113Fh	C078			1452h	C078	0~1000	1[ms]
FV adjustment	1141h	C081	0 ~ 2000	0.1[%]	1455h	C081	0~2000	0.1[%]
FI adjustment	1142h	C082		0.1[/0]	1456h	C082		0.1[70]
UP/DWN selection	1149h	C101	00 : OFF 01 : ON	-	1469h	C101	00: Not store frequency data 01: Store frequency data	-
Reset selection	114Ah	C102	00: Trip reset at power-on 01: Trip reset when the power is 0FF 02: Enabled only during trip (Reset when the power is ON.)	-	146Ah	C102	00: Trip reset at power-on 01: Trip reset at power-off 02: Enabled only during trip (Reset at power-on) 03: Trip reset only	-
Logic operation function A input	1150h	C141	00 : RUN/01 : FA1/02 : FA2/03 : OL/04 : OD/05 : AL/06 : Dc/07 :		1492h	C142	Same as C021 (Except 33 (LOG1) to	
Logic operation function B input	1151h	C142	FBV/08: NDc/10: ODc (使用しない でください) /43: LOC	-	1493h	C143	35 (LOG3), 63 (OPO), and 255 (no))	-
Logic operator selection	1152h	C143	00 : AND/01 : OR/02 : XOR	1	1494h	C144	00:AND 01:OR 02:XOR	-
Output terminal P1 ON delay	1153h	C144			1486h	C130		
Output terminal P1 OFF	1154h	C145	0 ~ 1000	0.1[s]	1487h	C131	0~1000	0.1[s]
Relay output ON delay	1157h	C148	1909	0.1[0]	1490h	C140	0 1000	0.1[0]
Relay output OFF delay	1158h	C149			1491h	C141		
Motor capacity selection	1165h	H003	00 : 0.2/ 02 : 0.4/ 04 : 0.75/ 06 : 1.5/ 07 : 2.2/ 09 : 3.7/ 11 : 5.5/ 12 :	_	1503h	H003	00:0.1/ 01:0.2/ 02:0.4/ 03:0.55/ 04:0.75/ 05:1.1/ 06:1.5/ 07:2.2/	_
2nd motor capacity selection	1541h	H203	7.5		2503h	H203	08:3.0/ 09:3.7/ 10:4.0/ 11:5.5/ 12:7.5/ 13:11.0/ 14:15.0/ 15:18.5	
Motor pole number selection	1166h	H004	2/4/6/8	1 F #350 7	1504h	H004	00:2P/ 01:4P/ 02:6P/ 03:8P	
2nd motor pole number	1542h	H204	2/4/0/0	1[極]	2504h	H204	04~23:10~48Pは設定しないでください	
Stabilization parameter	1168h	H006	0. ∼ 255.	1[%]	1507h	H006	0~255	1[%]
2nd stabilization parameter	1544h	H206	0 255.	T[70]	2507h	H206	0 - 233	1[70]
Enter command	0900h	-	Indefinite value	-	0900h	-	1	-

Please note that 3G3MX2-V1 does not provide the following functions:

	3G	3JX
Function name	Register No.	Parameter No.
Overload limit source selection	10BBh	b028
2nd overload limit source selection	152Ch	b228
AM adjustment	10CFh	b080
Monitor display selection	10D8h	b089
Overvoltage LAD stop function	10F5h	b130
Overvoltage LAD stop function level setting	10F6h	b131
Ready function selection	10F9h	b151
PID FB upper limit	112Eh	C052
PID FB lower limit	112Fh	C053
Operator/ModBus selection	1137h	C070
AM offset adjustment	1145h	C086

Note: Do not use this document to operate the Unit.

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