

High-function General-purpose Inverter RX-series

Replace Guide

From 3G3RX to 3G3RX2

3G3RX2-□□□□□

3G3RX-□□□□□



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.

- 3G3RX-V1-series Inverter
- 3G3RX2-series Inverter
- MX2/RX-series Inverter EtherCAT® Communication Unit
- RX2-series Inverter EtherCAT® Communication Unit

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- 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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Related Manuals

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

Manual name	Cat. No..	Model	Application	Description
3G3RX-V1 Series High-function General-purpose Inverter User's Manual	I578	3G3RX-□□□□□-V1	Learning how to use the 3G3RX-V1-series High-function General-purpose Inverters.	Describes how to install and wire the inverter, set parameters needed to operate the inverter, and remedies to be taken and inspection methods to be used in case that problems occur.
3G3RX2 Series High-function General-purpose Inverter User's Manual	I620	3G3RX2-□□□□□	Learning how to use the 3G3RX2-series High-function General-purpose Inverters.	Describes how to install and wire the inverter, set parameters needed to operate the inverter, and remedies to be taken and inspection methods to be used in case that problems occur.
Inverter MX2/RX Series EtherCAT® Communication Unit User's Manual	I574	3G3AX-MX2-ECT 3G3AX-RX-ECT	Learning how to use the MX2/RX-series Inverter EtherCAT® Communication Units.	Describes the installation and wiring of the 3G3AX-MX2-ECT/3G3AX-RX-ECT and parameter setting method which is required for the operation, as well as troubleshooting and inspection methods.
Inverter RX2 Series EtherCAT® Communication Unit User's Manual	I663	3G3AX-RX2-ECT	Learning how to use the RX2-series Inverter EtherCAT® Communication Units.	Describes the installation and wiring of the 3G3AX-RX2-ECT and parameter setting method which is required for the operation, as well as troubleshooting and inspection methods.

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	March 2019	Original production
02	April 2019	Corrected mistakes.
03	October 2021	Added EtherCAT Communication Unit.

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1. Target model

(1) Replaced (old) model

3G3RX series V1 type High-function General-purpose Inverter

3G3RX-□□□□□-V1

RX-series Inverter EtherCAT[®] Communication Units (Hereinafter called 3G3AX-RX-ECT)

3G3AX-RX-ECT

(2) New model

3G3RX2 Series High performance inverter

3G3RX2-□□□□□(3G3RX2)

RX2-series Inverter EtherCAT[®] Communication Units (Hereinafter called 3G3AX-RX2-ECT)

3G3AX-RX2-ECT

2. Precautions for replacement

- There are some differences between 3G3RX-V1 and 3G3RX2. Before replacement, refer to not only this guide but also related product user's manual.
- This guide shows main precaution for replacement. Detail specifications of 3G3RX-V1 and 3G3RX2 show those manuals. The main precaution for replacement is following.
 - (1) Mounting dimensions of 3G3RX-V1 and 3G3RX2 are same. Not need to additional hole.
Name, arrangement and wiring for the main circuit terminal block and the control circuit terminal block have some differences.
 - (2) Default parameter value and parameter functions have some differences between 3G3RX-V1 and 3G3RX2.
 - (3) PG option board and network option for 3G3RX-V1 can't be used for 3G3RX2.
 - (4) The operator for 3G3RX-V1 has 4digit LED display however 3G3RX2 have LCD display.
Operation will be improved.
 - (5) 3G3RX-V1 have 3G3RX-A4004-V1 (400V class 0.4kw capacitor). However, 3G3RX2 doesn't have 3G3RX2-A4004. So please to be replaced by 3G3RX2-A4007.
 - (6) The default setting of the control circuit is source logic, which is different from the 3G3RX-V1.
Make sure that the switch setting matches the circuit after wiring before turning ON power.
 - (7) Although the built-in EMC noise filter of 3G3RX-V1 is disabled as default, that of 3G3RX2 is enabled as default. Disable the EMC filter by changing the wiring of the EMC filter in some of the following cases:
 - When an external noise filter is used
 - When the built-in EMC noise filter is used in a power supply environment different from that of Europe
 - (8) The settings of the destination selection parameters differ between 3G3AX-RX-ECT and 3G3AX-RX2-ECT. For the setting method, refer to the user's manuals for 3G3RX2 and 3G3AX-RX2-ECT.
 - (9) Unlike 3G3AX-RX-ECT, 3G3AX-RX2-ECT is set so as not to send emergency messages when the power is turned ON. To send emergency messages, set the sub-index 05 hex (Flags) in object 10F3 hex to 1 every time the power is turned ON.
 - (10) The indication of the status LEDs differs between 3G3AX-RX-ECT and 3G3AX-RX2-ECT.
For details, refer to the user's manual for 3G3AX-RX2-ECT.

3. External Dimensions and Mounting dimensions

External Dimensions for some type is smaller than 3G3RX-V1. However mounting dimensions for 3G3RX-V1 and 3G3RX2 are same. Not need to additional hole.

3.1. External Dimensions

200-V class

3G3RX-V1	Dimensions (mm)			3G3RX2	Dimensions (mm)			Difference in dimension (mm)		
	W	H	D		W	H	D	W	H	D
3G3RX-A2004-V1	150	255	140	3G3RX2-A2004	150	255	140	0	0	0
3G3RX-A2007-V1	150	255	140	3G3RX2-A2007	150	255	140	0	0	0
3G3RX-A2015-V1	150	255	140	3G3RX2-A2015	150	255	140	0	0	0
3G3RX-A2022-V1	150	255	140	3G3RX2-A2022	150	255	140	0	0	0
3G3RX-A2037-V1	150	255	140	3G3RX2-A2037	150	255	140	0	0	0
3G3RX-A2055-V1	210	260	170	3G3RX2-A2055	210	260	170	0	0	0
3G3RX-A2075-V1	210	260	170	3G3RX2-A2075	210	260	170	0	0	0
3G3RX-A2110-V1	210	260	170	3G3RX2-A2110	210	260	170	0	0	0*
3G3RX-A2150-V1	250	390	190	3G3RX2-A2150	245	390	190	-5	0	0
3G3RX-A2185-V1	250	390	190	3G3RX2-A2185	245	390	190	-5	0	0
3G3RX-A2220-V1	250	390	190	3G3RX2-A2220	245	390	190	-5	0	0*
3G3RX-A2300-V1	310	540	195	3G3RX2-A2300	300	540	195	-10	0	0
3G3RX-A2370-V1	390	550	250	3G3RX2-A2370	390	550	250	0	0	0
3G3RX-A2450-V1	390	550	250	3G3RX2-A2450	390	550	250	0	0	0
3G3RX-A2550-V1	480	700	250	3G3RX2-A2550	480	700	250	0	0	0

* When using 3G3RX2 at LD or VLD, mount it in a special way. Refer to page 14 and 15 to check the dimensions.

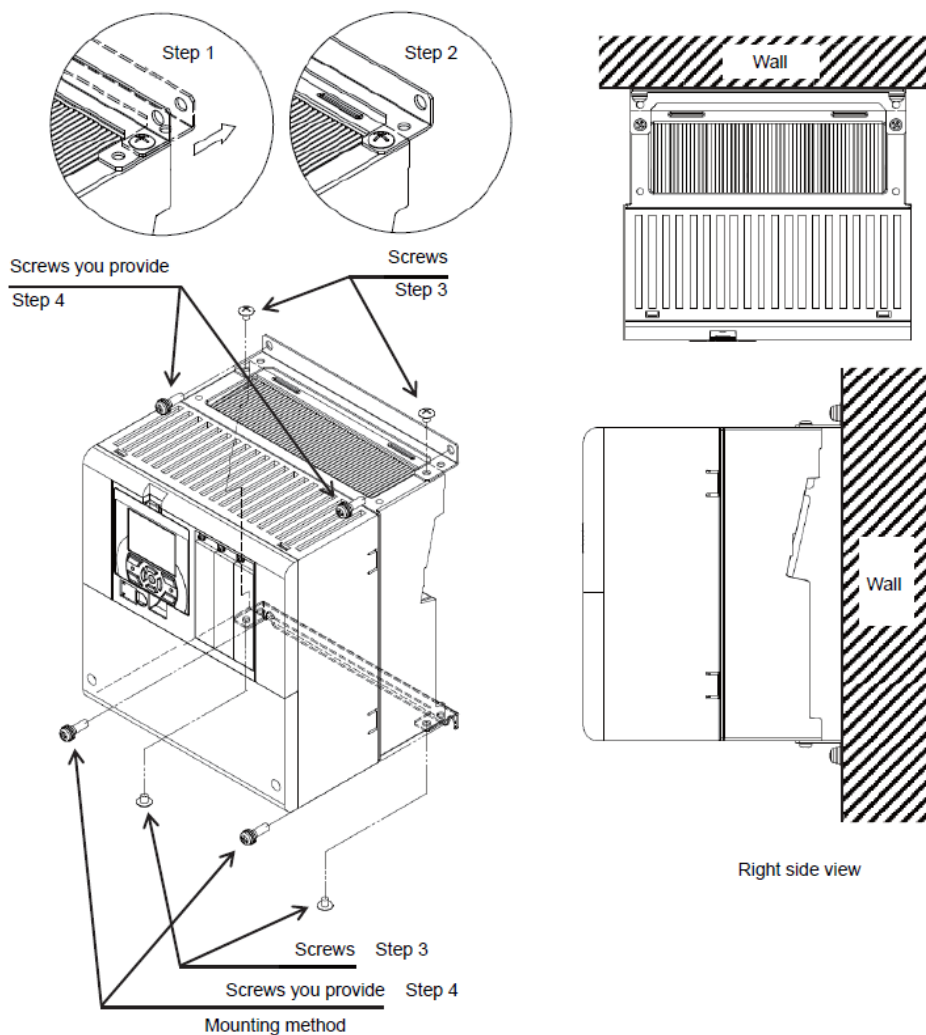
400-V class

3G3RX-V1	Dimensions (mm)			3G3RX2	Dimensions (mm)			Difference in dimension (mm)		
	W	H	D		W	H	D	W	H	D
3G3RX-A4004-V1	150	255	140	-	-	-	-	-	-	-
3G3RX-A4007-V1	150	255	140	3G3RX2-A4007	150	255	140	0	0	0
3G3RX-A4015-V1	150	255	140	3G3RX2-A4015	150	255	140	0	0	0
3G3RX-A4022-V1	150	255	140	3G3RX2-A4022	150	255	140	0	0	0
3G3RX-A4037-V1	150	255	140	3G3RX2-A4037	150	255	140	0	0	0
3G3RX-A4055-V1	210	260	170	3G3RX2-A4055	210	260	170	0	0	0
3G3RX-A4075-V1	210	260	170	3G3RX2-A4075	210	260	170	0	0	0
3G3RX-A4110-V1	210	260	170	3G3RX2-A4110	210	260	170	0	0	0
3G3RX-A4150-V1	250	390	190	3G3RX2-A4150	245	390	190	-5	0	0
3G3RX-A4185-V1	250	390	190	3G3RX2-A4185	245	390	190	-5	0	0
3G3RX-A4220-V1	250	390	190	3G3RX2-A4220	245	390	190	-5	0	0
3G3RX-A4300-V1	310	540	195	3G3RX2-A4300	300	540	195	-10	0	0
3G3RX-A4370-V1	390	550	250	3G3RX2-A4370	390	550	250	0	0	0
3G3RX-A4450-V1	390	550	250	3G3RX2-A4450	390	550	250	0	0	0
3G3RX-A4550-V1	390	550	250	3G3RX2-A4550	390	550	250	0	0	0
3G3RX-B411K-V1	390	700	270	3G3RX2-B4750	390	700	270	0	0	0
3G3RX-B413K-V1	390	700	270	3G3RX2-B4900	390	700	270	0	0	0
3G3RX-B4750-V1	480	740	270	3G3RX2-B411K	480	740	270	0	0	0
3G3RX-B4900-V1	480	740	270	3G3RX2-B413K	480	740	270	0	0	0

Mounting dimensions when 3G3RX-A2110 (VT) or 3G3RX-A2150 (CT) is replaced

When using 3G3RX2-A2110 at LD or VLD (one size larger motor), mount it 15 mm away from the wall.

(When using 3G3RX2-A2110 at ND, mount it as usual.)

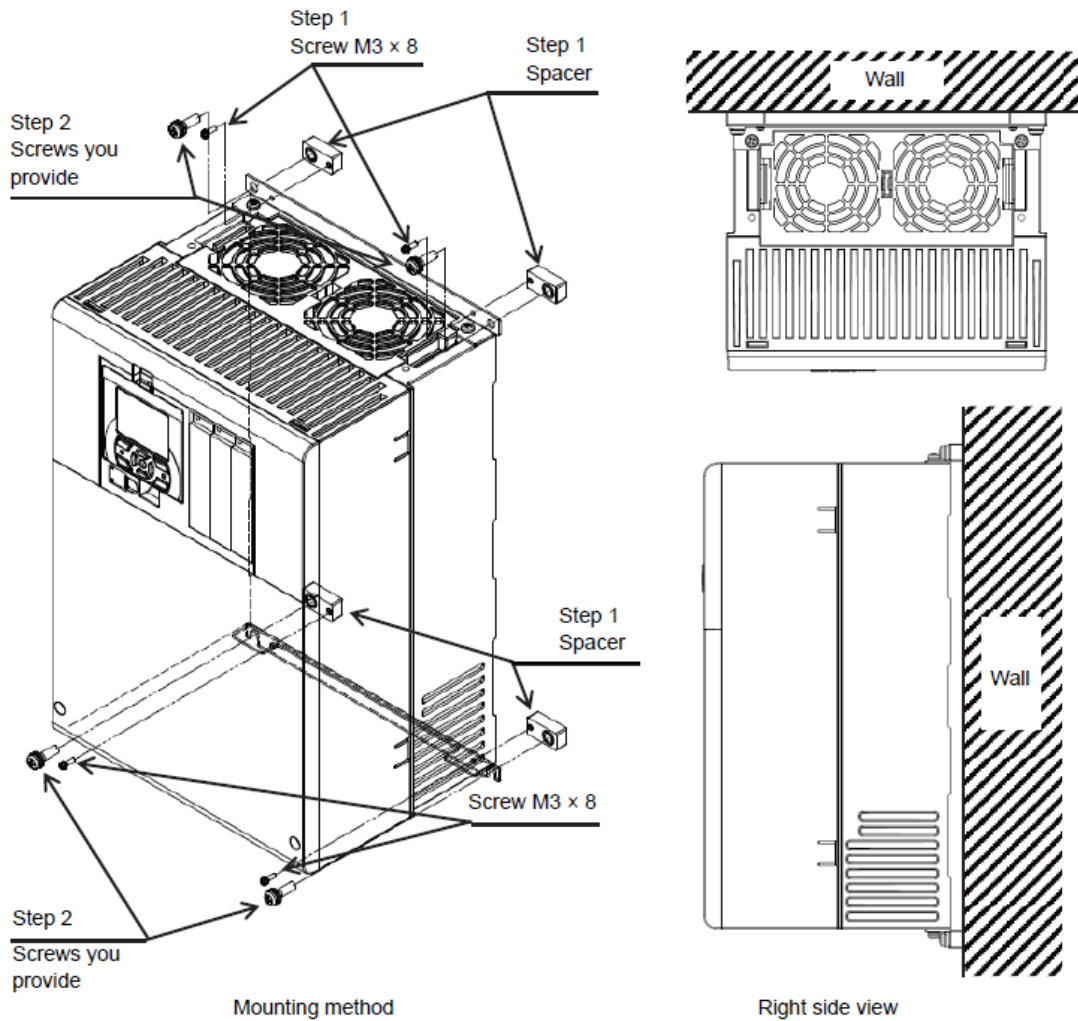


3G3RX-V1	Dimensions (mm)			3G3RX2	Dimensions (mm)			Difference (mm)		
	W	H	D		W	H	D	0	0	0
3G3RX-A2150 (CT)	250	390	190	3G3RX2-A2110 (LD)	210	260	180	-40	-130	-10
3G3RX-A2110 (VT)	210	260	170	3G3RX2-A2110 (LD/VLD)	210	260	180	0	0	+10

When 3G3RX-A2110-V1 that is used at VT is replaced, the depth is increased by 10 mm.

Mounting dimensions when 3G3RX-A2220-V1 or 3G3RX-A2300-V1 is replaced

When using 3G3RX2-A2220 at VLD (one size larger motor), mount it 10 mm away from the wall.
 (When using 3G3RX2-A2220 at ND or LD, mount it as usual.)



3G3RX	Dimensions (mm)			3G3RX2	Dimensions (mm)			Difference (mm)		
	W	H	D		W	H	D	0	0	0
3G3RX-A2300-V1	310	540	195	3G3RX2-A2220 (LD)	245	390	190	-65	-150	-5
3G3RX-A2300-V1	310	540	195	3G3RX2-A2220 (VLD)	245	390	200	-65	-150	+5
3G3RX-A2220-V1	250	390	190	3G3RX2-A2220 (LD)	245	390	190	-5	0	0
3G3RX-A2220-V1	250	390	190	3G3RX2-A2220 (VLD)	245	390	200	-5	0	+10

When 3G3RX-A2200 or 3G3RX-A2300 is replaced, the depth is increased.

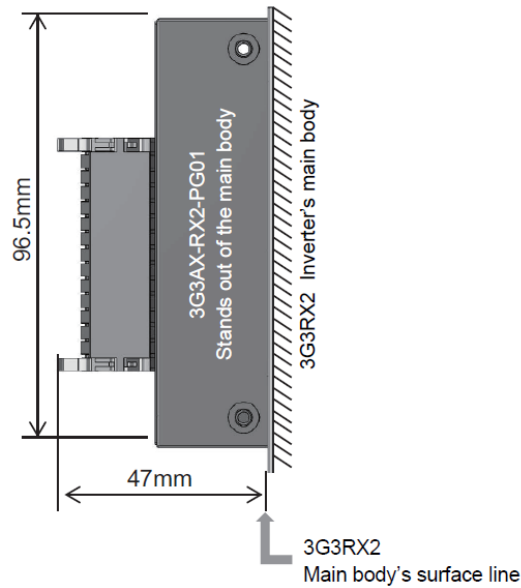
3.2. Terminal screw size

Terminal screw size of following type is different. Before wiring, refer to related product user's manual.

3G3RX-V1		3G3RX2	
3G3RX-A2110-V1	M5	3G3RX2-A2110	M6
3G3RX-A4110-V1	M5	3G3RX2-A4110	M6

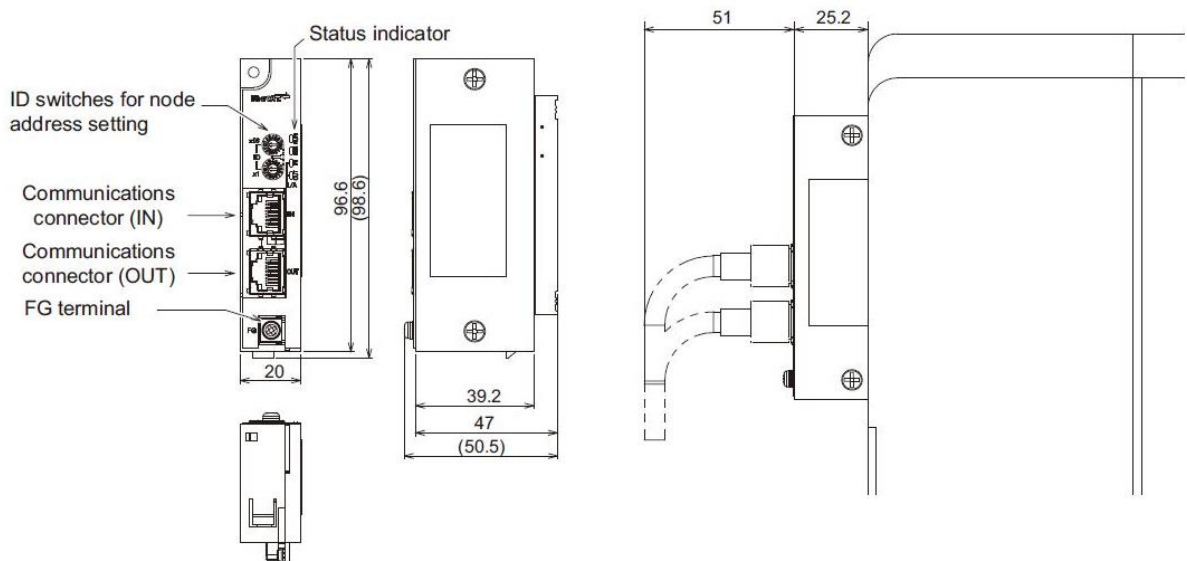
3.3. PG Option Unit External Dimensions

The total depth of 3G3RX2 with PG Option Unit is deeper than 3G3RX-V1 with PG. To design the size. When you install PG Option Unit 3G3AX-RX2-PG01 to the inverter, it will stand out of the inverter's front surface as following dimension. When you install the unit, take a special care for it.



3.4. EtherCAT® Communication Unit External Dimensions and Mounting Dimensions

When you install the EtherCAT® Communication Unit 3G3AX-RX2-ECT to the inverter, the total depth will be larger as shown in the figure on the right. In addition, space for wiring is required. Take special care for these when you install the unit.



4. Arrangement and Function of Terminal Block

There are some difference of Arrangement and Function of Terminal Block between 3G3RX-V1 and 3G3RX2. Before setting, to refer this section. Refer to related product user's manual.

4.1. Main Circuit Terminal Block

3G3RX-V1		3G3RX2	
Terminal	Terminal name	Terminal	Terminal name
+1	External DC reactor terminal	PD/+1	DC reactor connection terminal
P/+2	Braking resistor connection terminal	P/+	Connection terminal for regenerative braking unit

4.2. Control Circuit Terminal Block

	3G3RX-V1	3G3RX2
Changing Input Control Logic	By factory default, the terminal FW and the multi-function input terminal are set to sink logic (NPN). To change the input control logic to source logic (PNP), remove the short-circuit bar between the terminals P24 and PSC on the control circuit terminal block, and connect it between the terminals PSC and SC.	You can switch between the sink logic and source logic for input terminals by using SW6. (The default setting is source logic.)
Additional function	-	Backup 24V power supply terminal
	-	1a relay terminal
	-	Function safety terminal,

3G3RX-V1		3G3RX2		Remarks
Terminal	Terminal name	Terminal	Terminal name	
FS	Frequency reference power supply output	H	Power supply for setting speed	
FV	Frequency reference input (Voltage reference)	Ai1 Ai2	Analog input terminal1/2 (voltage/current switching SW1/2)	On 3G3RX-V1, FV is specified for voltage input. And FI is specified for current input. On 3G3RX2, for Ai1 and Ai2, 0-10 VDC voltage input and 0-20 mA current input can be switched using a switch for use. It can be used for input frequency command or feedback.
FI	Frequency reference input (Current reference)			
FE	Auxiliary frequency reference input (Voltage reference)	Ai3	Analog input terminal 3	
FC	Frequency reference common	L	Analog power common	
AM	Multi-function analog output (Voltage)	Ao1 Ao2	Analog output terminal 1/2 (voltage/current switching SW3/4)	On 3G3RX-V1, AM is specified for voltage output. And AMI is specified for current output. On 3G3RX2, for Ao1 and Ao2, 0-10 VDC voltage output and 0-20 mA current output can be switched using a switch as output of information monitor data of the inverter.
AMI	Multi-function analog output (Current)			

3G3RX-V1		3G3RX2		Remarks
Terminal	Terminal name	Terminal	Terminal name	
MP	Multi-function digital output	FM	Digital monitor (voltage)	
SC	Sequence input common	CM1	Common for digital monitor	
S1	Multi-function input	1	Input terminal	
S2		2		
S3		3		
S4		4		
S5		5		
S6		6		
S7		7		
S8		8		
FW	Forward RUN command terminal	9		On 3G3RX2, FW signal is set on the input terminal"9".
PSC	Multi-function input common	COM	Common for input terminal	
P1	Multi-function output	11	Output terminal	
P2		12		
P3		13		
P4		14		
P5		15		
PC	Multi-function output common	CM2	Common for output terminal	
MA	Multi-function relay output Select	AL0	1c relay terminal	On 3G3RX-V1, By factory default, Multi-function Relay Output (MA, MB) Operation Selection (C036) is set at NC contact between MA and MC, and NO contact between MB and MC. On 3G3RX2, by factory default, Relay output terminal function selection a/b (NO/NC) selection (CC-17) is set at NO contact between AL0 and AL2.
MB		AL1		
MC		Multi-function relay output common		
TH	External thermistor input terminal	TH+	External thermistor input	
-	-	16A	1a relay terminal	NO contact relay added to 3G3RX2. You can select the function by setting the parameter of output terminal 16.
-		16C		

5. Functional difference

5.1. Triple duty rating

3G3RX-V1 supports the dual duty rating Heavy load (CT) and Light load (VT). 3G3RX2 supports new rating to be triple duty rating: Normal duty (ND), Low duty (LD) and Very low duty (VLD). Each rating corresponds as following table.

3G3RX-V1	3G3RX2
Heavy load (CT)	Normal duty(ND)
Light load (VT)	Low duty(LD)
	Very low duty(VLD)

5.2. 3rd control discontinuation

3G3RX2 does not provide the 3rd control function that is available in 3G3RX-V1.

5.3. Modbus communication

Some Modbus addresses differ between 3G3RX-V1 and 3G3RX2.

In order to operate correctly, refer to the *3G3RX2 User's Manual* for the addresses and parameter settings and change not only parameter settings but also PLC/PC programs.

5.4. CiA402 drive profile

When you change from 3G3AX-RX-ECT to 3G3AX-RX2-ECT, note that the objects in the CiA402 drive profile differ between them. Refer to the following section 6. Parameter table for the changed locations.

6. Parameter table

There are some difference of Parameter name, settings, number, date range and arrangement between 3G3RX-V1 and 3G3RX2. Before setting, to refer this section. Refer to related product user's manual.

6.1. 3G3RX-V1 => 3G3RX2 converter

CX-Drive provides the parameter conversion function from 3G3RX-V1 to 3G3RX2. To select the inverter icon itself, right click and select the "Convert to 3G3RX2". After completing the conversion, refer to related product user's manual.

This function supports to change the parameter number, however not to change the setting value. So could you set the correct value, according to related product user's manual.

Parameter No.b049 (Heavy Load/Light Load Selection) doesn't convert. So could you set the correct value, according to related product user's manual.

The screenshot shows the 'Parameter Editor' software interface. The main window displays 'A001 - Frequency Reference Selection' with a warning message: 'output (frequency/voltage) to the motor rating. Be careful, especially if you set a base frequency at below 50 Hz. Otherwise, the motor may burn out. * If you apply a base frequency of over 60 Hz, a special This may require the inverter to increase its capacity to accommodate a different applicable motor. * Select the motor voltage according to the motor specifications. If the voltage exceeds the specified level, The inverter cannot output voltage beyond that of the incoming voltage.'

The context menu is open, and the 'Convert to 3G3RX2' option is highlighted. The parameter table below shows the following data:

Index	Description	Value	Drive Value	Default	Range	Units	Rest...
A001	Frequency Reference Selection	2: Digital Operator (...)	---	2	1 to 5		<input type="checkbox"/>
A002	RUN Command Selection	2: Digital Operator (...)	---	2	1 to 5		<input type="checkbox"/>
A003	1st Base Frequency	60	---	60	30 to 60	Hz	<input type="checkbox"/>
A004	1st Maximum Frequency	60	---	60	60 to 400	Hz	<input type="checkbox"/>
A005	FV/FI Selection	0: Switches betwe...	---	0	0 to 4		<input type="checkbox"/>
A006	FE Selection	3: FE disabled	---	3	0 to 3		<input type="checkbox"/>
A011	FV Start Frequency	0.00	---	0.00	0.00 to 400.00	Hz	<input type="checkbox"/>

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

There are some difference of parameter arrangement, parameter name and default value between 3G3RX-V1 and 3G3RX2. Before setting, to refer the following table. Refer to related product user's manual.

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
Frequency Reference Selection	A001	2: Digital Operator (F001)		AA101	1: Setting by Terminal [Ai1]	Addition of individual settings for second control
RUN Command Selection	A002	2: Digital Operator (F001)		AA111	0: Terminal [FW]/[RV]	
1st Base Frequency	A003	60		Hb104	50	To use IM, to set the Hb104(Async.Motor Base frequency setting, 1st-motor)/Hb105(Async.Motor Maximum frequency setting, 1st-motor). To use SM or PMM, to set the Hd104(Async.Motor Base frequency setting, 1st-motor)/Hd105(Async.Motor Maximum frequency setting, 1st-motor).
1st Maximum Frequency	A004	60		Hb105	50	
FE Selection	A006	3: FE disabled		Cb-22	0: Independent	
FV Start Frequency	A011	0		Cb-03	0	
FV End Frequency	A012	0		Cb-04	100	"If to set the "0" on RX-V1, to set the "0".
FV Start Ratio	A013	0		Cb-05	0	
FV End Ratio	A014	100		Cb-06	100	
FV Start Selection	A015	1: 0 Hz		Cb-07	1: 0%	
Analog input filter	A016	31: with 500 ms filter \pm 0.1 Hz hysteresis		Cb-01	16	
Drive Programming Function Selection	A017	0: Disabling		UE-02	0: Disable	
Multi-step Speed Selection	A019	0: Binary: 16-step selection with 4 terminals		Ab-03	0: Binary (16-speeds)	
1st Multi-step speed reference 0	A020	6		Ab110	0	
Multi-step speed reference 1	A021	0		Ab-11	0	
Multi-step speed reference 2	A022	0		Ab-12	0	
Multi-step speed reference 3	A023	0		Ab-13	0	
Multi-step speed reference 4	A024	0		Ab-14	0	
Multi-step speed reference 5	A025	0		Ab-15	0	
Multi-step speed reference 6	A026	0		Ab-16	0	
Multi-step speed reference 7	A027	0		Ab-17	0	
Multi-step speed reference 8	A028	0		Ab-18	0	
Multi-step speed reference 9	A029	0		Ab-19	0	
Multi-step speed reference 10	A030	0		Ab-20	0	
Multi-step speed reference 11	A031	0		Ab-21	0	
Multi-step speed reference 12	A032	0		Ab-22	0	
Multi-step speed reference 13	A033	0		Ab-23	0	
Multi-step speed reference 14	A034	0		Ab-24	0	
Multi-step speed reference 15	A035	0		Ab-25	0	
Jogging Frequency	A038	6		AG-20	6	
Jogging stop selection	A039	4: Deceleration stop on jogging stop/Enabled in operation		AG-21	0: Free run at Jogging stop (Disable at run)	"If to set the "4: Deceleration stop on jogging stop/Enabled in operation" on RX-V1, to set the "04 Valid while operating Decelerating stop at the time of the stop."

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
1st Torque Boost Selection	A041	1: Automatic (simple) torque boost		Hb140	1: Always enable	If to set the "1: Automatic (simple) torque boost" on RX-V1, to set the "03 Automatic torque boost (IM) on AA121(Control mode selection, 1st-motor).
1st Manual Torque Boost Voltage	A042	1		Hb141	0	Re-confirmation is required for setting.
1st Manual Torque Boost Frequency	A043	5		Hb142	0	Re-confirmation is required for setting.
1st Control Method	A044	0: Constant torque characteristics (VC)		AA121	0: VF control (Constant torque)	If to set the "0: Constant torque characteristics (VC)" and set the "0: Manual torque boost only" to A041 (First torque boost selection) on RX-V1, to set the "0: VF control (Constant torque)". If to set the "0: Constant torque characteristics (VC)" and set the "1: Automatic (simple) torque boost" to A041 (First torque boost selection) on RX-V1, to set the "03 (Automatic torque boost (IM))".
Output Voltage Gain	A045	100		Hb180	100	
1st Automatic Torque Boost Voltage Compensation Gain	A046	100		HC101	100	
1st Automatic Torque Boost Slip Compensation Gain	A047	0		HC102	100	
Internal DC Injection Braking Selection	A051	1: Enabled		AF101	0: Disable	
Internal DC Injection Braking Frequency	A052	0.5		AF103	0.5	
DC Injection Braking Delay Time	A053	0		AF104	0	
DC Injection Braking Power	A054	50		AF105	30	
DC Injection Braking Time	A055	0.5		AF106	0	
DC Injection Braking Edge/Level Selection	A056	1: Level operation		AF107	1: Level operation	
Startup DC Injection Braking Power	A057	0		AF108	30	
Startup Internal DC Injection Braking Time	A058	0		AF109	0	
1st Frequency Upper Limit	A061	0		bA102	0	
1st Frequency Lower Limit	A062	0		bA103	0	
Jump Frequency 1	A063	0		AG101	0	
Jump Frequency Width 1	A064	0.5		AG102	0	
Jump Frequency 2	A065	0		AG103	0	
Jump Frequency Width 2	A066	0.5		AG104	0	
Jump Frequency 3	A067	0		AG105	0	
Jump Frequency Width 3	A068	0.5		AG106	0	
Acceleration Stop Frequency	A069	0		AG110	0	
Acceleration Stop Time	A070	0		AG111	0	
PID Selection	A071	0: Disabled		AH-01	0: Disable	
PID P Gain	A072	1		AH-61	1	
PID I Gain	A073	1		AH-62	1	
PID D Gain	A074	0		AH-63	0	
PID feedback selection	A076	0: FI		AH-51	1: Setting by Terminal [Ai1]	If to set the "0: FI" on RX-V1, to set the "01: Ai1 terminal input" or "02: Ai2 terminal input".
PID Deviation Reverse Output	A077	0: OFF		AH-02	0: Disable	
PID Variable Range Limit	A078	0		AH-71	0	
PID Feedforward Selection	A079	0: Disabled		AH-70	0: Not use	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
AVR Selection	A081	2: OFF During Deceleration		bA146	2: At deceleration only	
Motor Incoming Voltage Selection	A082	0: 200 V		Hb106	230	Configured with Hb106 (IM)/Hd106 (SM/PMM).
RUN Mode Selection	A085	0: Normal operation		Hb145	0: Disable	
Energy-Saving Response/Accuracy Adjustment	A086	50		Hb146	50	
1st Acceleration Time 2	A092	10		AC124	15	
1st Deceleration Time 2	A093	10		AC126	15	
1st 2-step Acceleration/Deceleration Selection	A094	0: Switched via multi-function input 09 (2CH)		AC115	0: Switching by [2CH] terminal	
1st 2-step Acceleration Frequency	A095	0		AC116	0	
1st 2-step Deceleration Frequency	A096	0		AC117	0	
Acceleration Pattern Selection	A097	1: S shape curve		AC-03	0: Liner Acceleration	If to set the "1: S shape curve" on RX-V1, to set the "01: S-shaped".
Deceleration Pattern Selection	A098	1: S shape curve		AC-04	0: Liner Deceleration	If to set the "1: S shape curve" on RX-V1, to set the "01: S-shaped".
FI Start Frequency	A101	0		Cb-13	0	
FI End Frequency	A102	0		Cb-14	100	if A102(FI End Frequency) is set "0", Cb-14([Ai2] terminal end amount) is set "100"
FI Start Ratio	A103	20		Cb-15	20	
FI End Ratio	A104	100		Cb-16	100	
FI Start Selection	A105	0: Use FI start frequency [A101]		Cb-17	1: 0%	If to set the "0: Use FI start frequency [A101]" on RX-V1, to set the "00: Start amount".
FE Start Frequency	A111	0		Cb-23	-100	If the A071 (PID selection) of RX-V1 = 00, A111(O2 start)/A004 (First maximum frequency) × 100. In Other cased , Cb-23 (For Ai3) = -100.
FE End Frequency	A112	0		Cb-24	100	If the A071 (PID selection) of RX-V1 = 00, A112(O2 end)/A004 (First maximum frequency) × 100. In Other cased , Cb-23 (For Ai3) = -100.
FE Start Ratio	A113	-100		Cb-25	-100	
FE End Ratio	A114	100		Cb-26	100	
Acceleration Curve Parameter	A131	2		AC-05	2	
Deceleration Curve Parameter	A132	2		AC-06	2	
Operation Frequency Input A Setting	A141	2: Input FV		AA101	1: Setting by Terminal [Ai1]	Integrated into main speed/auxiliary speed command. Addition of individual settings for second control
Operation Frequency Input B Setting	A142	3: Input FI		AA102	0: Disable	Integrated into main speed/auxiliary speed command. Addition of individual settings for second control
Operation Function Operator Selection	A143	0: Addition (A141 + A142)		AA105	0: Disable	
Frequency Addition Amount Setting	A145	0		AA106	0	
EL-S Shape Acceleration Curve Ratio 1	A150	10		AC-08	25	
EL-S Shape Acceleration Curve Ratio 2	A151	10		AC-09	25	
EL-S Shape Deceleration Curve Ratio 1	A152	10		AC-10	25	
EL-S Shape Deceleration Curve Ratio 2	A153	10		AC-11	25	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
2nd Base Frequency	A203	60		Hb204	50	To use IM,to set the Hb204(Async.Motor Base frequency setting, 2nd-motor)/Hb205(Async.Motor Maximum frequency setting, 2nd-motor). To use SM or PMM,to set the Hd204(Async.Motor Base frequency setting,2nd-motor)/Hd205(Async.Motor Maximum frequency setting, 2nd-motor).
2nd Maximum Frequency	A204	60		Hb205	50	
2nd Multi-step Speed Reference 0	A220	0.00 Starting Frequency (b082) to 2nd Maximum Frequency (A204)		Ab210	0	
2nd Torque Boost Selection	A241	1		Hb240	1: Always enable	If to set the "1: Automatic (simple) torque boost" on RX-V1,to set the "03 Automatic torque boost (IM) on AA221(Control mode selection, 2nd-motor).
2nd Manual Torque Boost Voltage	A242	1		Hb241	0	Re-confirmation is required for setting.
2nd Manual Torque Boost Frequency	A243	5		Hb242	0	Re-confirmation is required for setting.
2nd Control Method	A244	0		AA221	0: VF control (Constant torque)	If to set the "0: Constant torque characteristics (VC)" and set the "0: Manual torque boost only" to A241 (Second torque boost selection) on RX-V1,to set the "0: VF control (Constant torque)". If to set the "0: Constant torque characteristics (VC)" and set the "1: Automatic (simple) torque boost" to A241 (2nd torque boost selection) on RX-V1,to set the "03 (Automatic torque boost (IM))".
2nd Automatic Torque Boost Voltage Compensation Gain	A246	100		HC201	100	
2nd Automatic Torque Boost Slip Compensation Gain	A247	0		HC202	100	
2nd Frequency Upper Limit	A261	0		bA202	0	
1st Frequency Lower Limit	A262	0		bA203	0	
2nd Deceleration Time 2	A292	10		AC224	15	
2nd Deceleration Time 2	A293	10		AC226	15	
2nd 2-step Acceleration/Deceleration Selection	A294	0		AC215	0: Switching by [2CH] terminal	
2nd 2-step Acceleration Frequency	A295	0		AC216	0	
2nd 2-step Deceleration Frequency	A296	0		AC217	0	
Retry Selection	b001	0: Alarm		bb-24	1: Start with frequency matching	
Allowable Momentary Power Interruption Time	b002	1		bb-25	1	
Restart Standby Time	b003	1		bb-26	0.3	
Momentary Power Interruption/Undervoltage Trip During Stop Selection	b004	0: Disabled		bb-27	0: Disable	
Momentary Power Interruption Retry Count Selection	b005	0: 16 Times		bb-20	0: Trip	
Input Phase Loss Protection Selection	b006	1: Enabled		bb-65	0: Disable	"If to set the "1: Enabled" on RX-V1,to set the "01: Enabled".
Frequency Matching Lower Limit Frequency Setting	b007	0		bb-42	0	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
Overvoltage/Overcurrent Restart Selection	b008	0: Alarm		bb-28	1: Start with frequency matching	
Undervoltage Retry Count Selection	b009	0: 16 Times		bb-21	0: Trip	If the b001 (Selection of instantaneous power failure/undervoltage restart) isn't equal to 0 and b009(Selection of undervoltage retry count)=0,to set "16" to bb-21(Undervoltage retry count). If the b001 (Selection of instantaneous power failure/undervoltage restart)=0 and b009(Selection of undervoltage retry count)=0,to set "0" to bb-21(Undervoltage retry count).
Overvoltage/Overcurrent Restart Count Selection	b010	3		bb-22	0: Trip	If the b001 (Selection of instantaneous power failure/undervoltage restart)=0,to set "0" to bb-22(Overcurrent retry count) and bb-23(Overvoltage retry count).
Overvoltage/Overcurrent Restart Standby Time	b011	1		bb-29	0.3	
1st Electronic Thermal Level	b012	3		bC110	3.2	
1st Electronic Thermal Characteristics Selection	b013	0: Reduced torque characteristics		bC111	1: Constant torque characteristic(CT)	"If to set the "0: Reduced torque characteristics" on RX-V1,to set the "00: Reduction characteristics".
Free-electronic Thermal Frequency 1	b015	0		bC120	0	
Free-electronic Thermal Current 1	b016	0		bC121	0	
Free-electronic Thermal Frequency 2	b017	0		bC122	0	
Free-electronic Thermal Current 2	b018	0		bC123	0	
Free-electronic Thermal Frequency 3	b019	0		bC124	0	
Free-electronic Thermal Current 3	b020	0		bC125	0	
Overload Limit Selection	b021	1: Enable in acceleration/constant speed operation		bA122	1: Enable during accel. and constant speed	
Overload Limit Level	b022	4.5		bA123	4.8	
Overload limit parameter	b023	1		bA124	1	
Overload Limit Selection 2	b024	1: Enabled in acceleration/constant speed operation		bA126	1: Enable during accel. and constant speed	
Overload limit level 2	b025	4.5		bA127	4.8	
Overload Limit Parameter 2	b026	1		bA128	1	
Overcurrent Suppression Selection	b027	1: Enabled		bA120	1: Enable	
Frequency Pullin Restart Level	b028	3		bb-43	3.2	
Frequency Pullin Restart Parameter	b029	0.5		bb-44	0.5	
Starting Frequency at Frequency Pullin Restart Selection	b030	0: Frequency at interruption		bb-47	0: Output frequency at shut down	
Soft Lock Selection	b031	1: Cannot Change b031 and Freq. when SFT is ON.		UA-16	0: Terminal [SFT]	"If to set the "1: Cannot Change b031 and Freq. when SFT is ON." on RX-V1,to set the "01: Always enabled".
RUN Time/Power ON Time Level	b034	0		CE-36	0	
Rotation Direction Limit Selection	b035	0: Forward and Reverse are enabled		AA114	0: Disable	
Reduced Voltage Startup Selection	b036	6		Hb131	36	
Display Selection	b037	0: Complete display		UA-10	0: Full display	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
Initial Screen Selection	b038	1: d001 (Output Frequency Monitor)		UA-91	-	For the LCD Operator, you can select an initial screen in System settings of LCD Operator.
User Parameter Automatic Setting Function	b039	0: Disabled		UA-30	0: Disable	
Torque limit selection	b040	00: 4-quadrant (Four-quadrant separate setting)		bA110	07: Parameter setting	
Torque Limit 1 (Four-quadrant Mode Forward Power Running)	b041	150		bA112	150	
Torque Limit 2 (Four-quadrant Mode Reverse Regeneration)	b042	150		bA113	150	
Torque Limit 3 (Four-quadrant Mode Reverse Power Running)	b043	150		bA114	150	
Torque Limit 4 (Four-quadrant Mode Forward Regeneration)	b044	150		bA115	150	
Torque LADSTOP Selection	b045	0: Disabled		bA116	0: Disable	
Reverse Rotation Prevention Selection	b046	0: Disabled		HC114	0: Disable	
Deceleration Stop Function	b050	0: Controlled deceleration on power loss disabled		bA-30	0: Disable	
Starting Voltage	b051	220		bA-31	220	
Deceleration Hold Level	b052	360		bA-32	360	
Deceleration Time	b053	1		bA-34	1	
Deceleration Starting Width	b054	0		bA-36	0	
Proportional Gain	b055	0.2		bA-37	0.2	
Integral Time	b056	0.1		bA-38	1	
Window Comparator FV Upper Limit Level	b060	100		CE-40	100	
Window Comparator FV Lower Limit Level	b061	0		CE-41	0	
Window Comparator FV Hysteresis Width	b062	0		CE-42	0	
Window Comparator FI Upper Limit Level	b063	100		CE-43	100	
Window Comparator FI Lower Limit Level	b064	0		CE-44	0	
Window Comparator FI Hysteresis Width	b065	0		CE-45	0	
Window Comparator FE Upper Limit Level	b066	100		CE-46	100	
Window Comparator FE Lower Limit Level	b067	-100		CE-47	-100	
Window Comparator FE Hysteresis Width	b068	0		CE-48	0	
Analog Operation Level at FV Disconnection	b070	255		CE-50	0	
Analog Operation Level at FI Disconnection	b071	255		CE-52	0	
Analog Operation Level at FE Disconnection	b072	127		CE-54	0	
Integrated Power Display Scale	b079	1		UA-13	1	
Starting Frequency	b082	1.5		Hb130	0.5	
Carrier Frequency	b083	5		bb101	2	
Initialization Selection	b084	0: Initializing disabled		Ub-01	0: Disable	
Initialization Data Selection	b085	0: mode0		Ub-02	1: MODE1:EU	
Frequency Conversion Coefficient	b086	1		Ab-01	1	
STOP Key Selection	b087	0: Enabled		AA-13	1: Enable	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
Free-Run Stop Selection	b088	0: 0 Hz start		bb-40	0: Start with 0Hz	
Automatic Carrier Reduction	b089	0: Disabled		bb103	0: Disable	
Usage Rate of Regenerative Braking	b090	0		bA-60	10	
Stop Selection	b091	0: Deceleration->Stop		AA115	0: Deceleration until stop	
Cooling Fan Operation	b092	1: ON during RUN		bA-70	0: Usually active	"If to set the "1: ON during RUN" on RX-V1.to set the "01 (ON during operation)".
Regenerative Braking Selection	b095	0: Disabled		bA-61	0: Disable	
Regenerative Braking ON Level	b096	360		bA-62	360	
Thermistor Selection	b098	0: Disabled		Cb-40	0: Disable	
Thermistor Error Level	b099	3000		bb-70	3000	
Free V/f Frequency 1	b100	0		Hb150	0	
Free V/f Voltage 1	b101	0		Hb151	0	
Free V/f Frequency 2	b102	0		Hb152	0	
Free V/f Voltage 2	b103	0		Hb153	0	
Free V/f Frequency 3	b104	0		Hb154	0	
Free V/f Voltage 3	b105	0		Hb155	0	
Free V/f Frequency 4	b106	0		Hb156	0	
Free V/f Voltage 4	b107	0		Hb157	0	
Free V/f Frequency 5	b108	0		Hb158	0	
Free V/f Voltage 5	b109	0		Hb159	0	
Free V/f Frequency 6	b110	0		Hb160	0	
Free V/f Voltage 6	b111	0		Hb161	0	
Free V/f Frequency 7	b112	0		Hb162	0	
Free V/f Voltage 7	b113	0		Hb163	0	
Brake Control Function Selection	b120	0: Disabled		AF130	0: Disable	
Brake Release Wait Time	b121	0		AF131	0	
Acceleration Wait Time	b122	0		AF132	0	
Stop Wait Time	b123	0		AF133	0	
Brake Wait Time for Confirmation	b124	0		AF134	0	
Brake Release Frequency	b125	0		AF135	0	
Brake Release Current	b126	3		AF136	3.2	
Break ON Frequency	b127	0		AF137	0	
Overvoltage Suppression Function Selection During Deceleration	b130	1: DC voltage kept constant		bA140	0: Disable	Addition of individual settings for second control
Overvoltage Suppression Level During Deceleration	b131	380		bA141	380	
Overvoltage Suppression Parameter	b132	1		bA142	1	
Overvoltage Suppression Proportional Gain Setting	b133	0.5		bA144	0.2	
Overvoltage Suppression Integral Time Setting	b134	0.06		bA145	1	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
2nd Electronic Thermal Level	b212	Rated current value		bC210	3.2	
2nd Electronic Thermal Characteristics Selection b313 3rd Electronic	b213	0		bC211	1: Constant torque characteristic(CT)	If to set the "0" on RX-V1,to set the "00 (Reduction characteristics)".
Multi-function Input S1 Selection	C001	1: RV (reverse)		CA-01	28: RS:Reset	If to set the "1: RV (reverse)" on RX-V1,to set the "002 : RV (Reverse rotation)".
Multi-function Input S2 Selection	C002	18: RS (reset)		CA-02	15: SCHG:Speed reference change	If to set the "18: RS (reset)" on RX-V1,to set the "028 : RS (Reset)".
Multi-function Input S3 Selection	C003	12: EXT (external trip)		CA-03	29: JG:Jogging	If to set the "12: EXT (external trip)" on RX-V1,to set the "033 : EXT (External abnormality)".
Multi-function Input S4 Selection	C004	2: CF1 (multi-step speed setting binary 1)		CA-04	32: FRS:Free run stop	If to set the "2: CF1 (multi-step speed setting binary 1)" on RX-V1,to set the "003 : CF1 (Multistage speed 1)".
Multi-function Input S5 Selection	C005	3: CF2 (multi-step speed setting binary 2)		CA-05	31: 2CH:2-step Acceleration/Deceleration	If to set the "3: CF2 (multi-step speed setting binary 2)" on RX-V1,to set the "004 : CF2 (Multistage speed 2)".
Multi-function Input S6 Selection	C006	4: CF3 (multi-step speed setting binary 3)		CA-06	3: CF1:Multi speed selection 1	If to set the "4: CF3 (multi-step speed setting binary 3)" on RX-V1,to set the "005 : CF3 (Multistage speed 3)".
Multi-function Input S7 Selection	C007	5: CF4 (multi-step speed setting binary 4)		CA-07	4: CF2:Multi speed selection 2	If to set the "5: CF4 (multi-step speed setting binary 4)" on RX-V1,to set the "006 : CF4 (Multistage speed 4)".
Multi-function Input S8 Selection	C008	6: JG (jogging)		CA-08	2: RV:Reverse rotation	If to set the "6: JG (jogging)" on RX-V1,to set the "029 : JG (Jogging)".
Multi-function Input S1 Operation Selection	C011	0: NO		CA-21	0: Normal open	
Multi-function Input S2 Operation Selection	C012	0: NO		CA-22	0: Normal open	
Multi-function Input S3 Operation Selection	C013	0: NO		CA-23	0: Normal open	
Multi-function Input S4 Operation Selection	C014	0: NO		CA-24	0: Normal open	
Multi-function Input S5 Operation Selection	C015	0: NO		CA-25	0: Normal open	
Multi-function Input S6 Operation Selection	C016	0: NO		CA-26	0: Normal open	
Multi-function Input S7 Operation Selection	C017	0: NO		CA-27	0: Normal open	
Multi-function Input S8 Operation Selection	C018	0: NO		CA-28	0: Normal open	
Input FW Operation Selection	C019	0: NO		CA-29	0: Normal open	For CA-09 = FW (input terminal 001)
Multi-function Output Terminal P1 Selection	C021	0: RUN (during RUN)		CC-01	1: RUN:Running	
Multi-function Output Terminal P2 Selection	C022	1: FA1 (constant speed reached)		CC-02	2: FA1:Constant-speed reached	
Multi-function Output Terminal P3 Selection	C023	3: OL (overload warning)		CC-03	3: FA2:Set speed overreached	If to set the "3: OL (overload warning)" on RX-V1,to set the "035 : OL (Overload advance notice)".
Multi-function Output Terminal P4 Selection	C024	7: OTQ (Overtorque)		CC-04	7: IRDY:Inverter ready	If to set the "7: OTQ (Overtorque)" on RX-V1,to set the "019 : OTQ (Excessive torque)".
Multi-function Output Terminal P5 Selection	C025	40: WAF (Cooling fan life warning signal)		CC-05	35: OL:Overload notice advance signal (1)	If to set the "40: WAF (Cooling fan life warning signal)" on RX-V1,to set the "040 : ZS (0 Hz detection signal)".
Multi-function Relay Output (MA, MB) Function Selection	C026	5: AL (alarm output)		CC-07	17: AL:Alarm	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
MP Selection	C027	0: Output frequency		Cd-03	10001: dA-01 (Output frequency monitor)	
AM Selection	C028	0: Output frequency		Cd-04	10001: dA-01 (Output frequency monitor)	
AMI Selection	C029	0: Output frequency		Cd-05	10001: dA-01 (Output frequency monitor)	
Digital Current Monitor Reference Value	C030	3		Cd-02	2880	
Multi-function Output Terminal P1 Contact Selection	C031	0: NO contact at MA; NC contact at MB		CC-11	0: Normal open	
Multi-function Output Terminal P2 Contact Selection	C032	0: NO contact at MA; NC contact at MB		CC-12	0: Normal open	
Multi-function Output Terminal P3 Contact Selection	C033	0: NO contact at MA; NC contact at MB		CC-13	0: Normal open	
Multi-function Output Terminal P4 Contact Selection	C034	0: NO contact at MA; NC contact at MB		CC-14	0: Normal open	
Multi-function Output Terminal P5 Contact Selection	C035	0: NO contact at MA; NC contact at MB		CC-15	0: Normal open	
Multi-function Relay Output (MA, MB) Contact Selection	C036	1: NC contact at MA; NO contact at MB		CC-17	1: Normal close	
Low Current Signal Output Mode Selection	C038	1: Enabled only during constant speed		CE101	1: During constant speed only	
Low Current Detection Level	C039	3		CE102	3.2	
Overload Warning Signal Output Mode Selection	C040	1: Enabled only during constant speed		CE105	1: During constant speed only	
Overload Warning Level	C041	3		CE106	3.2	
Arrival Frequency During Acceleration 1	C042	0		CE-10	0	
Arrival Frequency During Deceleration 1	C043	0		CE-11	0	
PID Deviation Excessive Level	C044	3		AH-72	3	
Arrival Frequency During Acceleration 2	C045	0		CE-12	0	
Arrival Frequency During Deceleration 2	C046	0		CE-13	0	
Feedback Comparison Signal Off Level	C052	100		AH-73	100	
Feedback Comparison Signal On Level	C053	0		AH-74	0	
Overtorque level (Forward power running)	C055	100		CE120	100	
Overtorque level (Reverse regeneration)	C056	100		CE121	100	
Overtorque level (Reverse power running)	C057	100		CE122	100	
Overtorque level (Forward regeneration)	C058	100		CE123	100	
Electronic Thermal Warning Level	C061	80		CE-30	80	
0 Hz Detection Level	C063	0		CE-33	0.5	
Cooling Fin Overheat Warning Level	C064	120		CE-34	120	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
Communication Speed Selection	C071	5: 9600 bps		CF-01	5: 9600bps	
Communication Station No. Selection	C072	1		CF-02	1	
Communication Parity Selection	C074	0: No parity		CF-03	0: No parity	
Communication Stop Bit Selection	C075	1: 1-bit		CF-04	1: 1-bit	
Operation Selection on Communication Error	C076	2: Ignore		CF-05	2: Ignore	
Communication Error Timeout Time	C077	0		CF-06	0	
Communication Wait Time	C078	0		CF-07	2	
FV Adjustment	C081	0		Cb-30	0	Adjusted with Cb-30 or Cb-31
FI Adjustment	C082	0		Cb-32	0	Adjusted with Cb-32 or Cb-33
FE Adjustment	C083	0		Cb-34	0	Adjusted with Cb-34 or Cb-35
Thermistor Adjustment	C085	0		Cb-41	100	
Debug mode enable	C091	0: MD0		UC-01	0: Disable	
UP/DWN Storage Selection	C101	0: Do not store the frequency data		CA-61	0: Not save	
Reset Selection	C102	2: Enabled only during trip (Reset when the power is ON.)		CA-72	0: Trip release at turn-on	If to set the "2: Enabled only during trip (Reset when the power is ON.)" on RX-V1, to set the "02: Enabled Only at Trip (On to Release)".
Reset Restart Selection	C103	0: 0 Hz start		bb-41	0: Start with 0Hz	
MP Gain Setting	C105	100		Cd-14	100	
AM Gain Setting	C106	100		Cd-24	100	To set $100 \times (1-1/C106)$ (AM Gain Setting) of RX-V1).
AMI Gain Setting	C107	100		Cd-34	80	To set $100 \times (1-1/(AMI Gain Setting))$ of RX-V1).
AM Bias Setting	C109	0		Cd-23	0	
AMI Bias Setting	C110	20		Cd-33	20	
Overload 1 Warning Level 2	C111	3		CE107	3.2	
FV Zero Adjustment	C121	0		Cb-30	0	Adjusted with Cb-30 or Cb-31
FI Zero Adjustment	C122	0		Cb-32	0	Adjusted with Cb-32 or Cb-33
FE Zero Adjustment	C123	0		Cb-34	0	Adjusted with Cb-34 or Cb-3
Multi-function Output P1 ON Delay Time	C130	0		CC-20	0	
Multi-function Output P1 OFF Delay Time	C131	0		CC-21	0	
Multi-function Output P2 ON Delay Time	C132	0		CC-22	0	
Multi-function Output P2 OFF Delay Time	C133	0		CC-23	0	
Multi-function Output P3 ON Delay Time	C134	0		CC-24	0	
Multi-function Output P3 OFF Delay Time	C135	0		CC-25	0	
Multi-function Output P4 ON Delay Time	C136	0		CC-26	0	
Multi-function Output P4 OFF Delay Time	C137	0		CC-27	0	
Multi-function Output P5 ON Delay Time	C138	0		CC-28	0	
Multi-function Output P5 OFF Delay Time	C139	0		CC-29	0	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
Multi-function Relay Output MA, MB ON Delay Time	C140	0		CC-32	0	
Multi-function Relay Output MA, MB OFF Delay Time	C141	0		CC-33	0	
Logic Output Signal 1 Selection 1	C142	0: RUN (during RUN)		CC-40	0: no:Not use	
Logic Output Signal 1 Selection 2	C143	0: RUN (during RUN)		CC-41	0: no:Not use	
Logic Output Signal 1 Operator Selection	C144	0: AND		CC-42	0: AND	
Logic Output Signal 2 Selection 1	C145	0: RUN (during RUN)		CC-43	0: no:Not use	
Logic Output Signal 2 Selection 2	C146	0: RUN (during RUN)		CC-44	0: no:Not use	
Logic Output Signal 2 Operator Selection	C147	0: AND		CC-45	0: AND	
Logic Output Signal 3 Selection 1	C148	0: RUN (during RUN)		CC-46	0: no:Not use	
Logic Output Signal 3 Selection 2	C149	0: RUN (during RUN)		CC-47	0: no:Not use	
Logic Output Signal 3 Operator Selection	C150	0: AND		CC-48	0: AND	
Logic Output Signal 4 Selection 1	C151	0: RUN (during RUN)		CC-49	0: no:Not use	
Logic Output Signal 4 Selection 2	C152	0: RUN (during RUN)		CC-50	0: no:Not use	
Logic Output Signal 4 Operator Selection	C153	0: AND		CC-51	0: AND	
Logic Output Signal 5 Selection 1	C154	0: RUN (during RUN)		CC-52	0: no:Not use	
Logic Output Signal 5 Selection 2	C155	0: RUN (during RUN)		CC-53	0: no:Not use	
Logic Output Signal 5 Operator Selection	C156	0: AND		CC-54	0: AND	
Logic Output Signal 6 Selection 1	C157	0: RUN (during RUN)		CC-55	0: no:Not use	
Logic Output Signal 6 Selection 2	C158	0: RUN (during RUN)		CC-56	0: no:Not use	
Logic Output Signal 6 Operator Selection	C159	0: AND		CC-57	0: AND	
Multi-function Input S1 Response Time Selection	C160	1		CA-41	2	
Multi-function Input S2 Response Time Selection	C161	1		CA-42	2	
Multi-function Input S3 Response Time Selection	C162	1		CA-43	2	
Multi-function Input S4 Response Time Selection	C163	1		CA-44	2	
Multi-function Input S5 Response Time Selection	C164	1		CA-45	2	
Multi-function Input S6 Response Time Selection	C165	1		CA-46	2	
Multi-function Input S7 Response Time Selection	C166	1		CA-47	2	
Multi-function Input S8 Response Time Selection	C167	1		CA-48	2	
Input FW Response Time	C168	1		CA-49	2	To set C168(Input FW Response Time) of RX-V1 × 2
Multi-step Speed/Position Determination Time	C169	0		CA-55	0	
Output frequency setting/monitor	F001	6		fa-01	0	
Acceleration time 1	F002	10		AC120	30	
deceleration time 1	F003	10		AC122	30	
Operator rotation direction selection	F004	0: Forward		AA-12	0: Forward	
2nd acceleration time 1	F202	10		AC220	30	
2nd deceleration time 1	F203	10		AC222	30	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
Auto-Tuning Selection	H001	0: Disabled		HA-01	0: Disable	
1st Motor Capacity	H003	2: 0.40 kW		Hb102	0.4	
1st Motor Pole Number	H004	1: 4 Poles		Hb103	1: 4P	
1st Speed Response	H005	1.59		HA115	100	If the A044 (1st Control Method) of RX-V1 = 3: Sensorless vector control (SLV) or 4: 0-Hz sensorless vector control, to set H005 (1st Speed Response) × 0.02. If the A044 (1st Control Method) of RX-V1 = 5: Sensor vector control (V2), to set H005 (1st Speed Response) × 0.02/3.
1st Stabilization Parameter	H006	100		HA110	100	
1st Motor Parameter R1	H020	5.877		Hb110	4.228608	"If the H002 (1st Motor Parameter selection) of RX-V1 = 00: Standard motor parameter, to set H020 (First motor R1) × 1000. In Other cased , to set H030 (First motor R1 (auto-tuning data)) × 1000.
1st Motor Parameter R2	H021	2.659		Hb112	3.221702	"If the H002 (1st Motor Parameter selection) of RX-V1 = 00: Standard motor parameter, to set H021 (First motor R2) × 1000. In Other cased , to set H031 (First motor R2 (auto-tuning data)) × 1000.
1st Motor Parameter L	H022	37.03		Hb114	42.344709	"If the H002 (1st Motor Parameter selection) of RX-V1 = 00: Standard motor parameter, to set H022 (First motor L) × 10000. In Other cased , to set H032 (First motor L (auto-tuning data)) × 10000.
1st Motor Parameter Io	H023	1.73		Hb116	0.53	If the H002 (1st Motor Parameter selection) of RX-V1 = 00: Standard motor parameter, to set H023 (First motor IO) × 50/A203 (First base frequency). In Other cased , to set H033 (Second motor IO (auto-tuning data)) × 50/003 (First base frequency).
1st Motor Parameter J	H024	0.005		Hb118	0.00266	If the H002 (1st Motor Parameter selection) of RX-V1 = 00: Standard motor parameter, to set H024 (First motor R2) × 100. In Other cased , to set H034 (First motor J (auto-tuning data)) × 100.
1st Motor Parameter R1 (Auto-tuning Data)	H030	5.877		Hb110	4.228608	Hb110: Integration of setting location
1st Motor Parameter R2 (Auto-tuning Data)	H031	2.659		Hb112	3.221702	Hb112: Integration of setting location
1st Motor Parameter L (Auto-tuning Data)	H032	37.03		Hb114	42.344709	Hb114: Integration of setting location
1st Motor Parameter Io (Auto-tuning Data)	H033	1.73		Hb116	0.53	Hb116: Integration of setting location
1st Motor Parameter J (Auto-tuning Data)	H034	0.005		Hb118	0.00266	Hb118: Integration of setting location
1st PI Proportional Gain	H050	100		HA125	100	
1st PI Integral Gain	H051	100		HA126	100	
1st P Proportional Gain	H052	1		HA127	100	To set H052 (1st P Proportional Gain) of RX-V1 × 100
1st Limit at 0 Hz	H060	100		HC110	80	To set H060 (1st Limit at 0 Hz) of RX-V1 × 0.1
1st Boost Amount at SLV Startup, 0 Hz	H061	50		HC112	10	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
For PI Proportional Gain Switching	H070	100		HA128	100	
For PI Integral Gain Switching	H071	100		HA129	100	
For P Proportional Gain Switching	H072	1		HA130	100	To set H072 (For P Proportional Gain Switching) of RX-V1 × 100.
Gain Switching Time	H073	100		HA121	100	
2nd Motor Capacity	H203	Maximum applicable motor capacity		Hb202	0.4	
2nd Motor Pole Number	H204	4		Hb203	1: 4P	
2nd Speed Response	H205	1.59		HA215	100	If the A244 (2nd Control Method) of RX-V1 = 3: Sensorless vector control (SLV) or 4: 0-Hz sensorless vector control, to set H205 (2nd Speed Response) × 0.02.
2nd Stabilization Parameter	H206	100		HA210	100	
2nd Motor Parameter R1	H220	Depends on the motor capacity.		Hb210	4.228608	If the H002 (1st Motor Parameter selection) of RX-V1 = 00: Standard motor parameter, to set H220 (Second motor R1) × 1000. In Other cased , to set H230 (Second motor R1 (auto-tuning data)) × 1000.
2nd Motor Parameter R2	H221	Depends on the motor capacity.		Hb212	3.221702	If the H002 (1st Motor Parameter selection) of RX-V1 = 00: Standard motor parameter, to set H221 (Second motor R2) × 1000. In Other cased , to set H231 (Second motor R2 (auto-tuning data)) × 1000.
2nd Motor Parameter L	H222	Depends on the motor capacity.		Hb214	42.344709	If the H002 (1st Motor Parameter selection) of RX-V1 = 00: Standard motor parameter, to set H222 (Second motor L) × 10000. In Other cased , to set H232 (Second motor L (auto-tuning data)) × 10000.
2nd Motor Parameter Io	H223	Depends on the motor capacity.		Hb216	0.53	If the H002 (1st Motor Parameter selection) of RX-V1 = 00: Standard motor parameter, to set H223 (Second motor IO) × 50/A203 (Second base frequency). In Other cased , to set H233 (Second motor IO (auto-tuning data)) × 50/A203 (Second base frequency).
2nd Motor Parameter J	H224	Depends on the motor capacity.		Hb218	0.00266	If the H002 (1st Motor Parameter selection) of RX-V1 = 00: Standard motor parameter, to set H224 (Second motor R2) × 100. In Other cased , to set H234 (Second motor J (auto-tuning data)) × 100.
2nd Motor Parameter R1 (Auto-tuning Data)	H230	Depends on the motor capacity.		Hb210	4.228608	Hb210: Integration of setting location
2nd Motor Parameter R2 (Auto-tuning Data)	H231	Depends on the motor capacity.		Hb212	3.221702	Hb212: Integration of setting location
2nd Motor Parameter L (Auto-tuning Data)	H232	Depends on the motor capacity.		Hb214	42.344709	Hb214: Integration of setting location
2nd Motor Parameter Io (Auto-tuning Data)	H233	Depends on the motor capacity.		Hb216	0.53	Hb216: Integration of setting location
2nd Motor Parameter J (Auto-tuning Data)	H234	Depends on the motor capacity.		Hb218	0.00266	Hb218: Integration of setting location
2nd PI Proportional Gain	H250	100		HA225	100	
2nd PI Integral Gain	H251	100		HA226	100	
2nd P Proportional Gain	H252	1		HA227	100	To set H252 (2nd P Proportional Gain) of RX-V1 × 100
2nd Limit at 0 Hz	H260	100		HC210	80	To set H260 (2nd Limit at 0 Hz) of RX-V1 × 0,1
2nd Boost Amount at SLV Startup, 0 Hz	H261	50		HC212	10	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
Operation Selection on Option 1 Error	P001	0: Trip		oA-22	1: Trip after Deceleration stop	
Operation Selection on Option 2 Error	P002	0: Trip		oA-12	1: Trip after Deceleration stop	
Number of Encoder Pulses	P011	1024		ob-01	1024	
V2 control mode selection	P012	0: ASR (speed control mode)		AA123	0: Speed/Torque control mode	
Pulse Train Node Selection	P013	0: Mode 0		ob-11	1: Forward/ Reverse pulse train and direction signal	If to set the "0: Mode 0" on RX-V1, to set the "00 (90° phase difference)".
Orientation Stop Position	P014	0		AE-11	0	
Orientation Speed Setting	P015	5		AE-12	0	
Orientation Direction Setting	P016	0: Forward		AE-13	0: Forward rotation	
Position Ready Range Setting	P017	5		AE-04	5	
Position Ready Delay Time Setting	P018	0		AE-05	0	
Electronic Gear Setting Position Selection	P019	0: Position Feedback Side (FB)		AE-01	0: Feedback side	
Electronic Gear Ratio Numerator	P020	1		AE-02	1	
Electronic Gear Ratio Denominator	P021	1		AE-03	1	
Position Control Feedforward Gain	P022	0		AE-06	0	
Position Loop Gain	P023	0.5		AE-07	0.5	
Position Bias Amount	P024	0		AE-08	0	
Secondary Resistance Compensation Enable/Disable Selection	P025	0: Disabled		HC113	0: Disable	
Overspeed Error Detection Level	P026	135		bb-80	135	
Speed Deviation Error Detection Level	P027	7.5		bb-83	15	To set the P027(Speed Deviation Error Detection Level)/Hb105(First IM maximum frequency) × 1000.
Motor Gear Ratio Numerator	P028	1		ob-03	1	
Motor Gear Ratio Denominator	P029	1		ob-04	1	
Acceleration/Deceleration Time Input Type	P031	0: Digital Operator		AC-01	0: Setting by parameter	
Orientation Stop Position Input Type	P032	0: Digital Operator		AE-10	0: Setting by parameter	
Torque Reference Input Selection	P033	0: Terminal FV		Ad-01	7: Setting by parameter	If to set the "0: Terminal FV" on RX-V1, to set the "01 (Ai1 terminal input)" or "02 (Ai2 terminal input)".
Torque Reference Setting	P034	0		Ad-02	0	
Polarity Selection at Torque Reference via FE	P035	0: Signed		Ad-03	0: As indication by the sign	Not limited to Ai3.
Torque Bias Mode	P036	0: None		Ad-11	0: Disable	
Torque Bias Value	P037	0		Ad-12	0	
Torque Bias Polarity Selection	P038	0: Signed		Ad-13	0: As indication by the sign	
Speed Limit Value in Torque Control (Forward)	P039	0		Ad-41	0	
Speed Limit Value in Torque Control (Reverse)	P040	0		Ad-42	0	
Communications Error Detection Timer Setting	P044	1		oA-11	1	
Operation at Host Communications Error Selection	P045	0: Trip		oA-12	1: Trip after Deceleration stop	

Description	3G3RX-V1			3G3RX2		Remarks
	Parameter No.	Default	Setting value	Parameter No.	Default	
Pulse Train Frequency Scale	P055	25		ob-12	25	
Pulse Train Frequency Filter Time Parameter	P056	0.1		ob-13	0.1	
Pulse Train Bias Amount	P057	0		ob-14	0	
Pulse Train Limit	P058	100		ob-15	100	
Multi-step Position Command 0	P060	0		AE-20	0	
Multi-step Position Command 1	P061	0		AE-22	0	
Multi-step Position Command 2	P062	0		AE-24	0	
Multi-step Position Command 3	P063	0		AE-26	0	
Multi-step Position Command 4	P064	0		AE-28	0	
Multi-step Position Command 5	P065	0		AE-30	0	
Multi-step Position Command 6	P066	0		AE-32	0	
Multi-step Position Command 7	P067	0		AE-34	0	
Zero Return Mode	P068	0: Low		AE-70	0: Low speed homing	
Zero Return Direction Selection	P069	0: Forward		AE-71	0: Forward rotation	
Zero Return Mode 1 Frequency	P070	5		AE-72	0	
Zero Return Mode 2 Frequency	P071	5		AE-73	0	
Position Range Setting (Forward Side)	P072	268435455		AE-52	268435455	
Position Range Setting (Reverse Side)	P073	-268435455		AE-54	-268435455	
Teaching Selection	P074	0		AE-60	0: X00	
Drive Programming User Parameter	P100~P131	0		UE-10~UE-41	0	
User Selection	U001~U012	no		UA-31~UA-42	no	
3rd Base Frequency	A303	60		-	-	Abolition of third control
3rd Maximum Frequency	A304	60		-	-	Abolition of third control
3rd Multi-step Speed Reference 0	A320	6		-	-	Abolition of third control
3rd Manual Torque Boost Voltage	A342	1		-	-	Abolition of third control
3rd Manual Torque Boost Frequency	A343	5		-	-	Abolition of third control
3rd Control Method	A344	0		-	-	Abolition of third control
3rd Acceleration Time 2	A392	10		-	-	Abolition of third control
3rd Deceleration Time 2	A393	10		-	-	Abolition of third control
3rd Electronic Thermal Level	b312	Rated current value		-	-	Abolition of third control
3rd Electronic Thermal Characteristics Selection	b313	0		-	-	Abolition of third control
3rd Acceleration Time 1	F302	10		-	-	Abolition of third control
3rd Deceleration Time 1	F303	10		-	-	Abolition of third control
3rd Stabilization Parameter	H306	100		-	-	Abolition of third control
Communication Bit Length Sselection	C073	8: 8-bit		-	-	Abolished due to Modbus communication
Communication Method Selection	C079	1: Modbus-RTU		-	-	Abolished due to Modbus communication

6.3. The difference of multi-function Input Settings

There are some difference of multi-function Input Settings between 3G3RX-V1 and 3G3RX2. Before setting, to refer the following table. Refer to related product user's manual.

Fun No.	3G3RX-V1		3G3RX2	
	Code	Function name	Code	Function name
1	RV	Reverse	FW	Normal rotation
2	CF1	Multi-step speed setting binary 1	RV	Reverse rotation
3	CF2	Multi-step speed setting binary 2	CF1	Multistage speed 1
4	CF3	Multi-step speed setting binary 3	CF2	Multistage speed 2
5	CF4	Multi-step speed setting binary 4	CF3	Multistage speed 3
6	JG	Jogging	CF4	Multistage speed 4
7	DB	External DC injection braking	SF1	Multistage speed bit 1
8	SET	2nd control	SF2	Multistage speed bit 2
9	2CH	2-step acceleration/deceleration	SF3	Multistage speed bit 3
10	-	-	SF4	Multistage speed bit 4
11	FRS	Free-run stop	SF5	Multistage speed bit 5
12	EXT	External trip	SF6	Multistage speed bit 6
13	USP	Power recovery restart prevention function	SF7	Multistage speed bit 7
14	CS	Commercial switch	ADD	Addition of frequency
15	SFT	Soft lock	SCHG	Switching of instruction
16	AT	Analog input switching	STA	3-wire starting up
17	SET3	3rd control	STP	3-wire stopping
18	RS	Reset	F/R	3-wire normal and reverse
19	-	-	AHD	Retention of analog instruction
20	STA	3-wire start	FUP	Acceleration through remote operation
21	STP	3-wire stop	FDN	Deceleration through remote operation
22	F/R	3-wire forward/reverse	UDC	Clearing of remote operation data
23	PID	PID disabled	F-OP	Forced switching of instruction
24	PIDC	PID integral reset	SET	Second control
26	CAS	Control gain switching	-	-

	3G3RX-V1		3G3RX2	
Fun No.	Code	Function name	Code	Function name
27	UP	Remote operation accelerated	-	-
28	DWN	Remote operation decelerated	RS	Reset
29	UDC	Remote data clear	JG	Jogging
30	-	-	DB	Braking with external direct current
31	OPE	Forced operator function	2CH	2-step acceleration/deceleration
32	SF1	Multi-step speed setting bit 1	FRS	Stopping of free running
33	SF2	Multi-step speed setting bit 2	EXT	External abnormality
34	SF3	Multi-step speed setting bit 3	USP	Prevention of power restoration restarting
35	SF4	Multi-step speed setting bit 4	CS	Commercial switch
36	SF5	Multi-step speed setting bit 5	SFT	Soft-lock
37	SF6	Multi-step speed setting bit 6	BOK	Brake check
38	SF7	Multi-step speed setting bit 7	OLR	Switching of overload limit
39	OLR	Overload limit switching	KHC	Clearing of integrated input power
40	TL	Torque limit enabled/disabled	OKHC	Clearing of integrated output power
41	TRQ1	Torque limit switching 1	PID	PID1 invalidation
42	TRQ2	Torque limit switching 2	PIDC	Resetting of PID1 integration
43	PPI	P/PI switching	PID2	PID2 invalidation
44	BOK	Brake confirmation	PIDC2	Resetting of PID2 integration
45	ORT	Orientation	PID3	PID3 invalidation
46	LAC	LAD cancel	PIDC3	Resetting of PID3 integration
47	PCLR	Position deviation clear	PID4	PID4 invalidation
48	STAT	Pulse train position command input permission	PIDC4	Resetting of PID4 integration
50	ADD	Set frequency A145 addition	-	-

Fun No.	3G3RX-V1		3G3RX2	
	Code	Function name	Code	Function name
51	F-TM	Forced terminal block	SVC1	PID1 multistage target value 1
52	ATR	Torque command input permission	SVC2	PID1 multistage target value 2
53	KHC	Integrated power clear	SVC3	PID1 multistage target value 3
54	SON	Servo ON	SVC4	PID1 multistage target value 4
55	FOC	Preliminary excitation	PR0	Switching of PID gain
56	MI1	General-purpose input 1	PI01	Switching of PID output
57	MI2	General-purpose input 2	PI02	Switching of PID2 output
58	MI3	General-purpose input 3	SLEP	Satisfaction of SLEEP condition
59	MI4	General-purpose input 4	WAKE	Satisfaction of WAKE condition
60	MI5	General-purpose input 5	TL	Validation of torque limit
61	MI6	General-purpose input 6	TRQ1	Torque limit switchover 1
62	MI7	General-purpose input 7	TRQ2	Torque limit switchover 2
63	MI8	General-purpose input 8	PPI	Switching of PPI control
64	-	-	CAS	Switching of control gain
65	AHD	Analog command held	SON	Servo ON
66	CP1	Position command selection 1	FOC	Auxiliary excitation
67	CP2	Position command selection 2	ATR	Validation of torque control
68	CP3	Position command selection 3	TBS	Validation of torque bias
69	ORL	Zero return limit signal	ORT	Orientation
70	ORG	Zero return startup signal	-	-
71	FOT	Forward driving stop	LAC	Cancellation of LAD
72	ROT	Reverse driving stop	PCLR	Clearing of positional deviation
73	SPD	Speed/Position switching	STAT	Permission to inputting of pulse string position instruction
74	PCNT	Pulse counter	PUP	Addition of positional bias
75	PCC	Pulse counter clear	PDN	Subtraction of positional bias
76	-	-	CP1	Positional instruction selection 1

	3G3RX-V1		3G3RX2	
Fun No.	Code	Function name	Code	Function name
77	-	-	CP2	Positional instruction selection 2
78	-	-	CP3	Positional instruction selection 3
80	-	-	ORL	Origin limit signal
81	-	-	ORG	Return-to-origin start up signal
82	PRG	DriveProgramming start	FOT	Stopping of normal rotation driving
83	-	-	ROT	Stopping of reverse rotation driving
84	-	-	SPD	Switching of speed position
85	-	-	PSET	Presetting of positional data
86	-	-	Mi1	General purpose input 1
87	-	-	Mi2	General purpose input 2
88	-	-	Mi3	General purpose input 3
89	-	-	Mi4	General purpose input 4
90	-	-	Mi5	General purpose input 5
91	-	-	Mi6	General purpose input 6
92	-	-	Mi7	General purpose input 7
93	-	-	Mi8	General purpose input 8
94	-	-	MI9	General purpose input 9
95	-	-	MI10	General purpose input 10
96	-	-	MI11	General purpose input 11
97	-	-	PCC	Clearing of pulse counter
98	-	-	ECOM	Starting up of EzCOM
99	-	-	PRG	Starting of EzSQ program
100	-	-	HLD	Stopping of acceleration/deceleration
101	-	-	REN	Operation permission signal
102	-	-	DISP	Fixation of display
103	-	-	PLA	Pulse string input A
104	-	-	PLB	Pulse string input B
105	-	-	EMF	Emergency forced operation
107	-	-	COK	Contactoer check signal
108	-	-	DTR	Data trace starting signal
109	-	-	PLZ	Pulse string input Z
110	-	-	TCH	Teaching signal

6.4. The difference of multi-function Output Settings

There are some difference of multi-function Output Settings between 3G3RX-V1 and 3G3RX2. Before setting, to refer the following table. Refer to related product user's manual.

		3G3RX-V1		3G3RX2	
Fun No.	Code	Function name	Code	Function name	
0	RUN	Signal during RUN	-	-	
1	FA1	Constant speed arrival signal	RUN	During operation	
2	FA2	Set frequency exceeded signal	FA1	When the constant speed is attained	
3	OL	Overload warning	FA2	Equal to or above the set frequency	
4	OD	Excessive PID deviation	FA3	Set frequency only	
5	AL	Alarm signal	FA4	Equal to or above the set frequency 2	
6	FA3	Set-frequency only signal	FA5	Set frequency only 2	
7	OTQ	Overtorque/Undertorque signal	IRDY	Operation ready completion	
8	IP	Signal during momentary power interruption	FWR	During normal rotation operation	
9	UV	Signal during undervoltage	RVR	During reverse rotation operation	
10	TRQ	Torque limit	FREF	Frequency command panel	
11	RNT	RUN time over	REF	Operation command panel	
12	ONT	Power ON time over	SETM	Second control under selection	
13	THM	Electronic thermal warning	-	-	
16	-	-	OPO	Optional output	
17	-	-	AL	Alarm signal	
18	-	-	MJA	Severe failure signal	
19	BRK	Brake release	OTQ	Excessive torque	
20	BER	Brake error	IP	During instantaneous power failure	
21	ZS	0 Hz detection signal	UV	Under insufficient voltage	
22	DSE	Excessive speed deviation	TRQ	During torque limitation	
23	POK	Position ready	IPS	During power failure deceleration	
24	FA4	Set frequency exceeded signal 2	RNT	RUN time elapsed	
25	FA5	Set-frequency only signal 2	ONT	Power supply ON time elapsed	

	3G3RX-V1		3G3RX2	
Fun No.	Code	Function name	Code	Function name
26	OL2	Overload warning 2	THM	Electronic thermal warning (motor)
27	FVDc	Analog FV disconnection detection	THC	Electronic thermal warning (inverter)
28	FIDc	Analog FI disconnection detection	-	-
29	FEDc	Analog FE disconnection detection	WAC	Capacitor life advance notice
30	-	-	WAF	Fan life advance notice
31	FBV	PID feedback comparison signal	FR	Operation command signal
32	NDc	Communications disconnection detection	OHF	Cooling fin heating advance notice
33	LOG1	Logic operation output 1	LOC	Low current signal
34	LOG2	Logic operation output 2	LOC2	Low current signal 2
35	LOG3	Logic operation output 3	OL	Overload advance notice
36	LOG4	Logic operation output 4	OL2	Overload advance notice 2
37	LOG5	Logic operation output 5	BRK	Brake release
38	LOG6	Logic operation output 6	BER	Brake abnormality
39	WAC	Capacitor life warning signal	CON	Contact control
40	WAF	Cooling fan life warning signal	ZS	0 Hz detection signal
41	FR	Starting contact signal	DSE	Excessive speed deviation
42	OHF	Cooling fin overheat warning	PDD	Excessive positional deviation
43	LOC	Low current signal	POK	Positioning completed
44	M01	General-purpose output 1	PCMP	Pulse count compare-match
45	M02	General-purpose output 2	OD	PID excessive deviation
46	M03	General-purpose output 3	FBV	PID feedback comparison
47	M04	General-purpose output 4	OD2	PID2 excessive deviation
48	M05	General-purpose output 5	FBV2	PID2 feedback comparison
49	M06	General-purpose output 6	NDc	Communication disconnection
50	IRDY	Operation ready	Ai1Dc	Analog disconnection Ai1
51	FWR	Forward run signal	Ai2Dc	Analog disconnection Ai2
52	RVR	Reverse run signal	Ai3Dc	Analog disconnection Ai3
53	MJA	Fatal fault signal	-	-
54	WCFV	Window comparator FV	-	-
55	WCFI	Window comparator FI	-	-

	3G3RX-V1		3G3RX2	
Fun No.	Code	Function name	Code	Function name
56	WCFE	Window comparator FE	WCAi1	Window comparator Ai1
57	-	-	WCAi2	Window comparator Ai2
58	-	-	WCAi3	Window comparator Ai3
62	-	-	LOG1	Result of logical operation 1
63	OPO	Option	LOG2	Result of logical operation 2
64	-	-	LOG3	Result of logical operation 3
65	-	-	LOG4	Result of logical operation 4
66	-	-	LOG5	Result of logical operation 5
67	-	-	LOG6	Result of logical operation 6
68	-	-	LOG7	Result of logical operation 7
69	-	-	MO1	General purpose output 1
70	-	-	MO2	General purpose output 2
71	-	-	MO3	General purpose output 3
72	-	-	MO4	General purpose output 4
73	-	-	MO5	General purpose output 5
74	-	-	MO6	General purpose output 6
75	-	-	MO7	General purpose output 7
76	-	-	EMFC	During-Em-Force signal
77	-	-	EMBP	During-bypass-mode signal
78	-	-	WFT	Trace function waiting for trigger
79	-	-	TRA	Trace function data logging
80	-	-	LBK	Flat battery of LCD operator
81	-	-	OVS	Excessive voltage of accepted power
84	-	-	AC0	Alarm code bit 0
85	-	-	AC1	Alarm code bit 1
86	-	-	AC2	Alarm code bit 2
87	-	-	AC3	Alarm code bit 3
89	-	-	OD3	PID3 excessive deviation
90	-	-	FBV3	PID3 feedback comparison

	3G3RX-V1		3G3RX2	
Fun No.	Code	Function name	Code	Function name
91	-	-	OD4	PID4 excessive deviation
92	-	-	FBV4	PID4 feedback comparison
93	-	-	SSE	PID soft start abnormality

6.5. The difference of Modbus Communication Register Number

There are some difference of Modbus Communication Register Number between 3G3RX-V1 and 3G3RX2. Before setting, to refer the following table. Refer to related product user's manual.

3G3RX-V1				3G3RX2			Data size(Bit)
Modbus coil spec. No.	Item	R/W	Description	Modbus coil spec. No.	R/W	Description	
0001	Output frequency setting/monitor	R/W	0.0/Starting frequency to 1st/2nd/3rd max. frequency 0.0 to 100.0 (PID function enabled)	2AF9	R/W	0 ~ 59000	32=>16
0011	Fault Counter	R	0 ~ 65530	03E8	R	0 ~ 65535	
0012	Fault Monitor 1(Latest)	R	0 ~ 79	03E9	R	1 ~ 255	
0013	Fault Monitor 1(Latest)	R	0 ~ 9	03EE	R	0 ~ 8	
0014	Fault Monitor 1(Latest)	R	0 ~ 40000	03EA	R	-59000 ~ 59000	
0016	Fault Monitor 1(Latest)	R	0 ~ 9999	03EC	R	0 ~ 65535	
0017	Fault Monitor 1(Latest)	R	0 ~ 9999	03ED	R	0 ~ 10000	
0018	Fault Monitor 1(Latest)	R	0~999900	03F4	R	0 ~ 1000000	
0020	Fault Monitor 2	R	0 ~ 9999	0400	R	0 ~ 65535	
0021	Fault Monitor 2	R	0 ~ 9999	0401	R	0 ~ 10000	
0022	Fault Monitor 2	R	0~999900	0408	R	0 ~ 1000000	
0024	Fault Monitor 2	R	0~999900	040A	R	0 ~ 1000000	
0026	Fault Monitor 3	R	0 ~ 79	0411	R	1 ~ 255	
0027	Fault Monitor 3	R	0 ~ 9	0416	R	0 ~ 8	
0028	Fault Monitor 3	R	0 ~ 40000	0412	R	-59000 ~ 59000	
0030	Fault Monitor 4	R	0 ~ 79	0425	R	1 ~ 255	
0031	Fault Monitor 4	R	0 ~ 9	042A	R	0 ~ 8	
0032	Fault Monitor 4	R	0 ~ 40000	0426	R	-59000 ~ 59000	
0034	Fault Monitor 4	R	0 ~ 9999	0428	R	0 ~ 65535	
0035	Fault Monitor 4	R	0 ~ 9999	0429	R	0 ~ 10000	
0036	Fault Monitor 4	R	0~999900	0430	R	0 ~ 1000000	
0038	Fault Monitor 4	R	0~999900	0432	R	0 ~ 1000000	
0040	Fault Monitor 5	R	0~999900	0444	R	0 ~ 1000000	
0042	Fault Monitor 5	R	0~999900	0446	R	0 ~ 1000000	
0044	Fault Monitor 6	R	0 ~ 79	044D	R	1 ~ 255	
0045	Fault Monitor 6	R	0 ~ 9	0452	R	0 ~ 8	
0046	Fault Monitor 6	R	0 ~ 40000	044E	R	-59000 ~ 59000	
0048	Fault Monitor 6	R	0 ~ 9999	0450	R	0 ~ 65535	
0049	Fault Monitor 6	R	0 ~ 9999	0451	R	0 ~ 10000	
1001	Output Frequency Monitor	R	0~40000	2711	R	0~59000	32=>16
1003	Output Current Monitor	R	0~9999	2712	R	0~65535	
1004	RUN Direction Monitor	R	F: Forward o: Stop r: Reverse	2713	R	00: o (Stopped) 01: d (0Hz output) 02: F (Normal rotation in process) 03: r (Reverse rotation in process)	
1005	PID Feedback Value Monitor	R	0~9990	2792	R	-10000~10000	
1007	Multi-function Input Monitor	R	Multi-function input terminals	2743	R	0'0xFFFF	
1008	Multi-function Output Monitor	R	Multi-function output terminals Relay output terminals	2746	R	0'0xFF	
1009	Output Frequency Monitor(After Conversion)	R	0'39960	2716	R	0'5900000	
1010	Output Torque Monitor	R	-200~+200	2721	R	-10000'10000	
1011	Output Voltage Monitor	R	0'6000	2722	R	0'8000	
1012	Input Power Monitor	R	0'9999	272E	R	0'60000	
1013	Integrated Power Monitor	R	0~9999999	2730	R	0~10000000	
1015	Total RUN Time Monitor	R	0~999900	27EE	R	0~1000000	
1017	Total Power ON Time Monitor	R	0~999900	27F0	R	0~1000000	
1019	Fin Temperature Monitor	R	-200 ~ +2000	27E7	R	-200 ~ +2000	
1026	DC Voltage Monitor	R	0 ~ 9999	2738	R	0 ~ 10000	
1027	Regenerative Braking Load Rate Monitor	R	0 ~ 1000	2739	R	0 ~ 10000	
1028	Electronic Thermal Load Rate Monitor	R	0 ~ 1000	273A	R	0 ~ 10000	
1031	User Monitor 2 (DriveProgramming)	R	- 2147483647 ~ +2147483647	2780	R	- 2147483647 ~ +2147483647	
1034	Pulse Counter Monitor	R/W	0 ~ 2147483647	272C	R	0 ~ 2147483647	
1036	Position Command Monitor	R	-2147483647 ~ 2147483647	2B0C	R/W	-268435455 to 268435455 In high resolution mode: -1073741823 to 1073741823	
1038	Current Position Monitor	R	-2147483647 ~ 2147483647	2724	R	In the case of AA121=10 and AA123=03, data range -2147483648 to 2147483647. In the case of the condition mentioned above, data range -536870912 to 536870911	
1103	Acceleration time 1	R/W	1 ~ 360000	2FB0	R/W	0 ~ 360000	
1105	deceleration time 1	R/W	1 ~ 360000	2FBE	R/W	0 ~ 360000	
1107	Operator rotation direction selection	R/W	00: Forward 01: Reverse	2EEC	R/W	00: Normal rotation 01: Reverse rotation	
1201	Frequency Reference Selection	R/W	01: Reverse	2EE1	R/W	01: Ai1 terminal input 02: Ai2 terminal input 03: Ai3 terminal input 04: (Reserved) 05: (Reserved) 06: (Reserved) 07: Parameter setting 08: RS 485 09: Option 1 10: Option 2 11: Option 3 12: Pulse string input: Inverter 13: Pulse string input: Option 14: Program function 15: PID calculation	
1202	RUN Command Selection	R/W	01: Control circuit terminal block 02: Digital Operator 03: Modbus communication 04: Option 1 05: Option 2	2EEB	R/W	00: [FW]/[RV] terminal 01: 3 wire 02: RUN key on operator LCD Operator 03: RS485 04: Option 1 05: Option 2 06: Option 3	
1203	1st Base Frequency	R/W	30. to 1st Maximum Frequency (A004)	3B00	R/W	1000 ~ 59000	
1204	1st Maximum Frequency	R/W	30 ~ 400	3B01	R/W	1000 ~ 59000	

3G3RX-V1				3G3RX2			Data size(Bit)
Modbus coil spec. No.	Item	R/W	Description	Modbus coil spec. No.	R/W	Description	
1205	FV/FI Selection	R/W	00: Switching between FV (Voltage) and FI (Current) via terminal AT 02: Switching between FV and volume adjuster via terminal AT 03: Switching between FI and volume adjuster via terminal AT 04: Switching between FE and volume adjuster via terminal AT	2EE1 2EE2	R/W	-	
1206	FE Selection	R/W	00: FE only 01: FV/FI auxiliary frequency reference (not reversible) 02: FV/FI auxiliary frequency reference (reversible) 03: FE disabled	372A	R/W	00: Single 01: Added to Ai1/Ai2: with reversibility 02: Added to Ai1/Ai2: without reversibility	
1210	FV End Ratio	R/W	FV Start Ratio (A013) to 100.	371A	R/W	(Cb-05) 0 ~ 1000	
1211	FV Start Selection	R/W	00: FV Start Frequency (A011) 01: 0 Hz	371B	R/W	00: Start amount 01: 0%	
1212	Analog Input Filter	R/W	1. to 30. (x 2 ms) 31.: With 500 ms filter ±0.1 Hz hysteresis	3715/ 371F/ 3729	R/W	1 ~ 500	
1215	Multi-step Speed Selection	R/W	00: Binary (16-step selection with 4 terminals) 01: Bit (8-step selection with 7 terminals)	2F47	R/W	00 (16th speed: binary (CF1 to CF4))/ 01 (8th speed: bit (SF1-SF7))	
1216	1st Multi-step speed reference 0	R/W	0.00 Starting Frequency (b082) to 1st Maximum Frequency (A004)	2F4E	R/W	0 ~ 59000	32=>16
1218	Multi-step speed reference 1	R/W	0.00 Starting Frequency (b082) to 1st Maximum Frequency (A004)	2F4F	R/W	0 ~ 59000	32=>16
1220	Multi-step speed reference 5	R/W	0.00 Starting Frequency (b082) to 1st Maximum Frequency (A004)	2F53	R/W	0 ~ 59000	32=>16
1222	Multi-step speed reference 6	R/W	0.00 Starting Frequency (b082) to 1st Maximum Frequency (A004)	2F54	R/W	0 ~ 59000	32=>16
1224	Multi-step speed reference 7	R/W	0.00 Starting Frequency (b082) to 1st Maximum Frequency (A004)	2F55	R/W	0 ~ 59000	32=>16
1226	Multi-step speed reference 8	R/W	0.00 Starting Frequency (b082) to 1st Maximum Frequency (A004)	2F56	R/W	0 ~ 59000	32=>16
1228	Multi-step speed reference 9	R/W	0.00 Starting Frequency (b082) to 1st Maximum Frequency (A004)	2F57	R/W	0 ~ 59000	32=>16
1230	Multi-step speed reference 13	R/W	0.00 Starting Frequency (b082) to 1st Maximum Frequency (A004)	2F5B	R/W	0 ~ 59000	32=>16
1232	Multi-step speed reference 14	R/W	0.00 Starting Frequency (b082) to 1st Maximum Frequency (A004)	2F5C	R/W	0 ~ 59000	32=>16
1234	Multi-step speed reference 15	R/W	0.00 Starting Frequency (b082) to 1st Maximum Frequency (A004)	2F5D	R/W	0 ~ 59000	32=>16
1238	Jogging Frequency	R/W	0.00 Starting Frequency to 9.99	314C	R/W	0 ~ 1000	
1239	Jogging stop selection	R/W	00: Free running during jogging stop/Disabled during operation 01: Deceleration stop during jogging stop/Disabled during operation 02: DC injection braking during jogging stop/Disabled during operation 03: Free running during jogging stop/Enabled during operation 04: Deceleration stop during jogging stop/Enabled during operation 05: DC injection braking during jogging stop/Enabled during operation	314D	R/W	00: Disabled during FRS operation at stop 01: Disabled during deceleration stop operation 02: Disabled during DB operation at stop 03: Enabled during FRS operation at stop 04: Enabled during deceleration stop operation 05: Enabled during DB operation at stop	
1240	1st Automatic Torque Boost Voltage Compensation Gain	R/W	0 ~ 255	3B61	R/W	0 ~ 255	
1241	1st Automatic Torque Boost Slip Compensation Gain	R/W	0 ~ 255	3B62	R/W	0 ~ 255	
1245	Internal DC Injection Braking Selection	R/W	00: Disabled 01: Enabled 02: Enabled (Operates only at set frequency)	30D5	R/W	00: Disabled 01: Enabled 02: Frequency command	
1246	Internal DC Injection Braking Frequency	R/W	0 ~ 40000	30D7	R/W	0 ~ 59000	
1247	DC Injection Braking Delay Time	R/W	0 ~ 50	30D8	R/W	0 ~ 500	
1248	DC Injection Braking Power	R/W	0 ~ 100 (0.4 ~ 55kW) 0 ~ 80 (75 ~ 132kW)	30D9	R/W	0 ~ 100	
1249	DC Injection Braking Time	R/W	0 ~ 600	30Da	R/W	0 ~ 6000	
1251	1st Frequency Lower Limit	R/W	0.00: Disabled (Function not active) Starting Frequency (b082) to 1st Frequency Upper Limit (A061)	32CB	R/W	0 ~ 59000	32=>16
1253	Jump Frequency 1	R/W	0 ~ 40000	3139	R/W	0 ~ 59000	32=>16
1255	Jump Frequency Width 1	R/W	0 ~ 1000	313A	R/W	0 ~ 1000	
1256	Jump Frequency 2	R/W	0 ~ 40000	313B	R/W	0 ~ 59000	32=>16
1258	Jump Frequency Width 2	R/W	0 ~ 1000	313C	R/W	0 ~ 1000	
1259	Jump Frequency 3	R/W	0 ~ 40000	313D	R/W	0 ~ 59000	32=>16
1260	PID P Gain	R/W	2 ~ 50	31D9	R/W	0 ~ 1000	
1261	PID I Gain	R/W	0 ~ 36000	31DA	R/W	0 ~ 36000	
1262	PID D Gain	R/W	0 ~ 10000	31DB	R/W	0 ~ 10000	
1263	PID Scale	R/W	1 ~ 9999	31DC/ 31DD/ 31DE	R/W	-10000 ~ 10000 -10000 ~ 10000 -0~4	
1264	PID feedback selection	R/W	00: FI (Current) 01: FV (Voltage) 02: Modbus communication 03: Pulse train frequency 10: Operation function output	31CF	R/W		0
1265	PID Deviation Reverse Output	R/W	00: Disabled (Deviation = Target value - Feedback value) 01: Enabled (Deviation = Feedback value - Target value)	319E	R/W	00: Disabled 01: Enabled	
1266	PID Variable Range Limit	R/W	0 ~ 1000	31E3	R/W	0 ~ 10000	
1267	PID Feedforward Selection	R/W	00: Disabled 01: FV (Voltage) 02: FI (Current) 03: FE (Voltage)	31E2	R/W	00 (Disabled) 01 Ai1 terminal input 02 Ai2 terminal input 03 Ai3 terminal input	
1269	AVR Selection	R/W	00: Always ON 01: Always OFF 02: OFF during deceleration	32F6	R/W	00 (Disabled)/01 (Regular operation)/ 02 (Operation only at deceleration)/ 03 (Level mode)/ 04 (Level mode only at deceleration)	
1274	1st Acceleration Time 2	R/W	1 ~ 360000	2FC0	R/W	0 ~ 360000	
1276	1st Deceleration Time 2	R/W	1 ~ 360000	2FC2	R/W	0 ~ 360000	

3G3RX-V1				3G3RX2			
Modbus coil spec. No.	Item	R/W	Description	Modbus coil spec. No.	R/W	Description	Data size(Bit)
1278	1st 2-step Acceleration/Deceleration Selection	R/W	00: 2CH terminal (Switched by multi-function input: "09") 01: Switched by setting (A095/A295/A096/A296) 02: Switched only during forward/reverse switching	2FB7	R/W	00 ([2CH] terminal)/01 (Parameter setting)/02 (Switching normal/reverse rotation)	
1279	1st 2-step Acceleration Frequency	R/W	0 ~ 40000	2FB8	R/W	0 ~ 59000	32=>16
1281	FI Start Frequency	R/W	0 ~ 40000	3721	R/W	0 ~ 10000	32=>16
1283	FI End Frequency	R/W	0 ~ 40000	3722	R/W	0 ~ 10000	32=>16
1285	FI Start Ratio	R/W	0 to FI End Ratio (A104)	3723	R/W	0 ~ 1000(Cb-16)	
1286	FI End Ratio	R/W	FV Start Ratio (A103) to 100.	3724	R/W	(Cb-15)0 ~ 1000	
1287	FI Start Selection	R/W	00: Use FI Start Frequency (A101) 01: 0 Hz	3725	R/W	00: Start amount 01: 0%	
1291	FE Start Ratio	R/W	-100. to FE End Ratio (A114)	372D	R/W	-1000 ~ 1000 (Cb-26)	
1292	FE End Ratio	R/W	FE Start Ratio (A113) to 100.	372E	R/W	(Cb-25)-1000 ~ 1000	
1301	Retry Selection	R/W	00: Trip 01: 0-Hz restart 02: Frequency matching restart 03: Trip after frequency matching deceleration stop 04: Frequency pull-in restart	3344	R/W	00 (0Hz)/01 (Frequency matching)/02 (Frequency entrainment)/03 (Detection speed)/04 (Trip after frequency matching deceleration stop)	
1302	Allowable Momentary Power Interruption Time	R/W	3 ~ 250	3345	R/W	3 ~ 250	
1303	Restart Standby Time	R/W	3 ~ 1000	3346	R/W	3 ~ 1000	
1304	Momentary Power Interruption/Undervoltage Trip During Stop Selection	R/W	00: Disabled 01: Enabled 02: Disabled during stop and deceleration stop	3347	R/W	00 (Disabled)/01 (Enabled at stop)/02 (Disabled at stop and deceleration stop)	
1305	Momentary Power Interruption Retry Count Selection	R/W	00: 16 times 01: No limit	3340	R/W	0 to 16/255	
1306	Input Phase Loss Protection Selection	R/W	00: Disabled 01: Enabled	336D	R/W	00 (Disabled)/01 (Enabled)	
1307	Frequency Matching Lower Limit Frequency Setting	R/W	0 ~ 40000	3356	R/W	0 ~ 59000	32=>16
1309	Overvoltage/Overcurrent Restart Selection	R/W	00: Trip 01: 0-Hz restart 02: Frequency matching restart 03: Trip after frequency matching deceleration stop 04: Frequency pull-in restart	3348	R/W	00 (0Hz)/01 (Frequency matching)/02 (Frequency entrainment)/03 (Detection speed)/04 (Trip after frequency matching deceleration stop)	
1310	Free-electronic Thermal Frequency 1	R/W	0 ~ 400	33A4	R/W	0 ~ 59000 (bC122)	
1311	Free-electronic Thermal Current 1	R/W	0.00 to Rated current	33A5	R/W	(0.0 to 3.0) × Inverter rated current	
1312	Free-electronic Thermal Frequency 2	R/W	0 ~ 400	33A6	R/W	0 ~ 59000(bC120 ~ bC124)	
1313	Free-electronic Thermal Current 2	R/W	0.00 to Rated current	33A7	R/W	(0.0 to 3.0) × Inverter rated current	
1314	Free-electronic Thermal Frequency 3	R/W	0 ~ 400	33A8	R/W	0(bC122) ~ 59000	
1315	Free-electronic Thermal Current 3	R/W	0.00 to Rated current	33A9	R/W	(0.0 to 3.0) × Inverter rated current	
1316	Overload Limit Selection	R/W	00: Disabled 01: Enabled during acceleration and constant speed 02: Enabled during constant speed 03: Enabled during acceleration and constant speed (Accelerated during regeneration)	32De	R/W	00 (Disabled)/01 (Accelerate at constant speed)/02 (Only constant speed)/03 (Accelerate at constant speed/Increase speed at regeneration)	
1317	Overload Limit Level	R/W	200 ~ 2000 (0.4 ~ 55kW) 200 ~ 1800 (75 ~ 132kW)	32DF	R/W	(0.2 to 2.0) × Inverter rated current (A)	
1318	Overload limit parameter	R/W	10 ~ 3000	32E0	R/W	10 ~ 360000	16=>32
1319	Overload Limit Selection 2	R/W	00: Disabled 01: Enabled during acceleration and constant speed 02: Enabled during constant speed 03: Enabled during acceleration and constant speed (Accelerated during regeneration)	32E2	R/W	00 (Disabled)/01 (Accelerate at constant speed)/02 (Only constant speed)/03 (Accelerate at constant speed/Increase speed at regeneration)	
1320	Soft Lock Selection	R/W	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 the specified frequency parameter cannot be changed. 10: Data can be changed during RUN.	4660	R/W	00 ([SFT] terminal)/01 (Always enabled)	
1323	RUN Time/Power ON Time Level	R/W	0 ~ 9999 (0 ~ 99990) 1000 ~ 6553 (100000 ~ 655300)	3864	R/W	0 ~ 100000	
1325	Rotation Direction Limit Selection	R/W	00: No direction limit 01: Only Forward enabled (Reverse limited) 02: Only Reverse enabled (Forward limited)	2EEE	R/W	00 (No limitation)/01 (Only normal rotation)/02 (Only reverse rotation)	
1326	Reduced Voltage Startup Selection	R/W	0 (Reduced voltage startup time small) to 255 (Reduced voltage startup time: large)	3B1B	R/W	0 ~ 2000	
1327	Display Selection	R/W	00: Complete display 01: Individual display of functions 02: User setting + b037 03: Data comparison display 04: Basic display	465A	R/W	00 (Full display)/01 (By function)/02 (User setting)/03 (Conveyor display)/04 (Only monitor display)	
1328	Initial Screen Selection	R/W	000: Screen on which the Enter key was last pressed 001 to 010: d001 to d010 012 to 019: d012 to d019 022 to 030: d022 to d030 060: d060 201: F001 202: Do not set.	46AB	R/W	-	
1329	User Parameter Automatic Setting Function	R/W	00: Disabled 01: Enabled	466E	R/W	00: Disabled 01: Enabled	
1330	Reverse Rotation Prevention Selection	R/W	00: Disabled 01: Enabled	3B6E	R/W	00: Disabled 01: Enabled	
1334	Deceleration Stop Function	R/W	00: Disabled 01: Enabled (deceleration stop) 02: Enabled (Constant voltage, without recovery) 03: Enabled (Constant voltage, with recovery)	32E6	R/W	00 (Disabled)/01 (Enabled: deceleration stop)/02 (Enabled: no recovery)/03 (Enabled: with recovery)	
1335	Starting Voltage	R/W	0 ~ 10000	32E7	R/W	200Vclass: 0 ~ 4100 400Vclass: 0 ~ 8200	
1336	Deceleration Hold Level	R/W	0 ~ 10000	32E8	R/W	200Vclass: 0 ~ 4100 400Vclass: 0 ~ 8200	
1337	Deceleration Time	R/W	0 ~ 360000	32Ea	R/W	1 ~ 360000	
1339	Deceleration Starting Width	R/W	0 ~ 1000	32Ec	R/W	0 ~ 1000	

3G3RX-V1				3G3RX2			Data size(Bit)
Modbus coil spec. No.	Item	R/W	Description	Modbus coil spec. No.	R/W	Description	
1340	Window Comparator FV Lower Limit Level	R/W	0 ~ 100	3869	R/W	0 ~ 100	
1341	Window Comparator FV Hysteresis Width	R/W	0 ~ 10	386A	R/W	0 ~ 10	
1342	Window Comparator FI Upper Limit Level	R/W	0 ~ 100	386B	R/W	0 ~ 100	
1343	Window Comparator FI Lower Limit Level	R/W	0 ~ 100	386C	R/W	0 ~ 100	
1344	Window Comparator FI Hysteresis Width	R/W	0 ~ 10	386D	R/W	0 ~ 10	
1345	Window Comparator FE Upper Limit Level	R/W	-100 ~ 100	386E	R/W	-100 ~ 100	
1346	Window Comparator FE Lower Limit Level	R/W	-100 ~ 100	386F	R/W	-100 ~ 100	
1347	Window Comparator FE Hysteresis Width	R/W	0 ~ 10	3870	R/W	0 ~ 10	
1349	Analog Operation Level at FV Disconnection	R/W	0 ~ 100	3872	R/W	0 to 100(%)	16=>16
1351	Integrated Power Clear	R/W	Cleared by pressing Enter key after changing to 01	465C	R/W	00 (Disabled)/01 (Clear)	
1352	Integrated Power Display Scale	R/W	1 ~ 1000	465D	R/W	1 ~ 1000	
1355	Starting Frequency	R/W	10 ~ 999	3B1A	R/W	10 ~ 1000	
1356	Carrier Frequency	R/W	5 ~ 150(0.4 ~ 55kW) 5 ~ 100(75 ~ 132kW)	332D	R/W	[Ub-03]=02: Normal duty 0.5 to 16.0 (kHz) [Ub-03]=01: Low duty 0.5 to 12.0 (kHz) [Ub-03]=00: Very low duty 0.5 to 10.0 (kHz)	
1357	Initialization Selection	R/W	00: Initialization disabled 01: Clear fault monitor 02: Initialize data 03: Clear fault monitor + initialize data 04: Clear fault monitor + initialize data + Clear DriveProgramming	46B5	R/W	00 (Disabled)/01 (Trip history)/02 (Parameter initialization)/ 03 (Trip history + parameters)/ 04 (Trip history + parameters + DriveProgramming) 05 (Other than terminal function)/ 06 (Other than communication function)/ 07 (Other than terminal&communication functions)/ 08 (DriveProgramming)	
1359	Frequency Conversion Coefficient	R/W	1 ~ 999	2F45	R/W	1 ~ 10000	
1362	Regenerative Braking Selection	R/W	00: Disabled (Function not active) 01: Enabled (Disabled during stop) 02: Enabled (Enabled during stop)	3305	R/W	00 (Disabled)/ 01 (Enabled: disabled at stop)/ 02 (Enabled: enabled at stop)	
1363	Regenerative Braking ON Level	R/W	200-V class: 330 to 380 200-V class: 660 to 760	3306	R/W	200Vclass: 3300 ~ 4000 400Vclass: 6600 ~ 8000	
1365	Thermistor Selection	R/W	00: Disabled (Function not active) 01: PTC enabled 02: NTC enabled	373C	R/W	00 (Disabled)/ 01 (PTC resistance value enabled)/ 02 (NTC resistance value enabled)	
1366	Thermistor Error Level	R/W	0 ~ 9999	3372	R/W	0 ~ 10000	
1367	Free V/f Frequency 1	R/W	0: Disabled (Function not active) 1. to Free V/f Frequency 2	3B2E	R/W	0 ~ 59000 (Hb152)	
1368	Free V/f Voltage 1	R/W	0 ~ 8000	3B2F	R/W	0 ~ 10000	
1369	Free V/f Frequency 2	R/W	0: Disabled (Function not active) Free V/f Frequency 1 to Free V/f Frequency 3	3B30	R/W	0 ~ 59000(Hb150)~(Hb154)	
1370	Free V/f Voltage 5	R/W	0 ~ 8000	3B37	R/W	0 ~ 10000	
1371	Free V/f Frequency 6	R/W	0: Disabled (Function not active) Free V/f Frequency 5 to Free V/f Frequency 7	3B38	R/W	0 ~ 59000(Hb158)~(Hb162)	
1372	Free V/f Voltage 6	R/W	0 ~ 8000	3B39	R/W	0 ~ 10000	
1373	Free V/f Frequency 7	R/W	0: Disabled (Function not active) Free V/f Frequency 6 to 400.	3B3A	R/W	0 ~ 59000(Hb160)~(Hb104)	
1374	Free V/f Voltage 7	R/W	0 ~ 8000	3B3B	R/W	0 ~ 10000	
1380	Brake Release Frequency	R/W	0 ~ 40000	30F7	R/W	0 ~ 59000	
1381	Brake Release Current	R/W	0 ~ 2000(0.4 ~ 55kW) 0 ~ 1800(75 ~ 132kW)	30F8	R/W	(0.0 to 2.0) × Inverter rated current (A)	
1382	Break ON Frequency	R/W	0 ~ 40000	30F9	R/W	0 ~ 59000	
1385	Overvoltage Suppression Function Selection During Deceleration	R/W	00: Disabled 01: Enabled (DC voltage kept constant) 02: Enabled (Acceleration enabled)	32F0	R/W	00 (Disabled)/ 01 (DC voltage constant deceleration) 02 (Acceleration only at deceleration)/ 03 (Acceleration at constant speed/ deceleration)	
1386	Overvoltage Suppression Level During Deceleration	R/W	200-V class: 330 to 390 400-V class: 660 to 780	32F1	R/W	200Vclass: 3300 ~ 4000 400Vclass: 6600 ~ 8000	
1387	Overvoltage Suppression Parameter	R/W	10 ~ 3000	32F2	R/W	0 ~ 360000	16=>32
1388	Overvoltage Suppression Proportional Gain Setting	R/W	0 ~ 255	32F4	R/W	0 ~ 500	
1389	Overvoltage Suppression Integral Time Setting	R/W	0 ~ 65535	32F5	R/W	0 ~ 15000	
1401	Multi-function Input S1 Selection	R/W	0 ~ 82	36B1	R/W	0 ~ 110	
1402	Multi-function Input S2 Selection	R/W	0 ~ 82	36B2	R/W	0 ~ 110	
1403	Multi-function Input S3 Selection	R/W	0 ~ 82	36B3	R/W	0 ~ 110	
1404	Multi-function Input S4 Selection	R/W	0 ~ 82	36B4	R/W	0 ~ 110	
1405	Multi-function Input S5 Selection	R/W	0 ~ 82	36B5	R/W	0 ~ 110	
1406	Multi-function Input S6 Selection	R/W	0 ~ 82	36B6	R/W	0 ~ 110	
1407	Multi-function Input S7 Selection	R/W	0 ~ 82	36B7	R/W	0 ~ 110	
1408	Multi-function Input S8 Selection	R/W	0 ~ 82	36B8	R/W	0 ~ 110	
1410	Multi-function Input S6 Operation Selection	R/W	00:NO 01:NC	36Ca	R/W	00:NO 01:NC	
1411	Multi-function Input S7 Operation Selection	R/W	00:NO 01:NC	36CB	R/W	00:NO 01:NC	
1412	Multi-function Input S8 Operation Selection	R/W	00:NO 01:NC	36CC	R/W	00:NO 01:NC	
1413	Input FW Operation Selection	R/W	00:NO 01:NC	36CD	R/W	00:NO 01:NC	
1415	Multi-function Output Terminal P1 Selection	R/W	-	3779	R/W	-	
1416	Multi-function Output Terminal P2 Selection	R/W	-	377A	R/W	-	
1417	Multi-function Output Terminal P3 Selection	R/W	-	377B	R/W	-	
1418	Multi-function Output Terminal P4 Selection	R/W	-	377C	R/W	-	
1419	Multi-function Output Terminal P5 Selection	R/W	-	377D	R/W	-	
1420	Multi-function Output Terminal P2 Contact Selection	R/W	0:NO 1:NC	3784	R/W	0:NO 1:NC	
1421	Multi-function Output Terminal P3 Contact Selection	R/W	0:NO 1:NC	3785	R/W	0:NO 1:NC	
1422	Multi-function Output Terminal P4 Contact Selection	R/W	0:NO 1:NC	3786	R/W	0:NO 1:NC	
1423	Multi-function Output Terminal P5 Contact Selection	R/W	0:NO 1:NC	3787	R/W	0:NO 1:NC	
1424	Multi-function Relay Output (MA, MB) Contact Selection	R/W	0:NO 1:NC	3789	R/W	0:NO 1:NC	

3G3RX-V1				3G3RX2			Data size(Bit)
Modbus coil spec. No.	Item	R/W	Description	Modbus coil spec. No.	R/W	Description	
1426	Low Current Signal Output Mode Selection	R/W	00: Enabled during acceleration/deceleration and constant speed 01: Enabled only during constant speed	3841	R/W	00 (During acceleration/deceleration, at constant speed)/01 (Only at constant speed)	
1427	Low Current Detection Level	R/W	0 ~ 2000 (0.4 ~ 55kW) 0 ~ 1800 (75 ~ 132kW)	3842	R/W	(0.0 to 2.0) × Inverter rated current	
1428	Overload Warning Signal Output Mode Selection	R/W	00: Enabled during acceleration/deceleration and constant speed 01: Enabled only during constant speed	3845	R/W	00 (During acceleration/deceleration, at constant speed)/01 (Only at constant speed)	
1429	Overload Warning Level	R/W	0: Disabled 0 ~ 2000 (0.4 ~ 55kW) 0 ~ 1800 (75 ~ 132kW)	3846	R/W	(0.0 to 2.0) × Inverter rated current	
1431	Arrival Frequency During Deceleration 2	R/W	0 ~ 40000	384D	R/W	0 ~ 59000	32=>16
1438	Feedback Comparison Signal Off Level	R/W	0 ~ 1000	31E5	R/W	0 ~ 10000	
1439	Feedback Comparison Signal On Level	R/W	0 ~ 1000	31E6	R/W	0 ~ 10000	
1441	Electronic Thermal Warning Level	R/W	0 ~ 100	385E	R/W	0 ~ 10000	
1442	Alarm Code Selection	R/W	00: Disabled 01: 3 bits 02: 4 bits	3778h~ 377Bh	R/W	-	
1443	0 Hz Detection Level	R/W	0 ~ 10000	3861	R/W	0 ~ 10000	
1444	Cooling Fin Overheat Warning Level	R/W	0 ~ 200	3862	R/W	0 ~ 200	
1450	Operation Selection on Communication Error	R/W	00: Trip 01: Trip after deceleration stop 02: Ignore 03: Free-run stop 04: Deceleration stop	38A9	R/W	00 (Error)/01 (Trip after deceleration stop)/02 (Ignore)/03 (Free run)/04 (Deceleration stop)	
1451	Communication Error Timeout Time	R/W	0 ~ 9999	38Aa	R/W	0 ~ 10000	
1452	Communication Wait Time	R/W	0 ~ 1000	38Ab	R/W	0 ~ 1000	
1455	FV Adjustment	R/W	0 ~ 65530	3732	R/W	-10000 ~ 10000	
1456	FI Adjustment	R/W	0 ~ 65530	3734	R/W	-10000 ~ 10000	
1457	FE Adjustment	R/W	0 ~ 65530	3736	R/W	-10000 ~ 10000	
1459	Thermistor Adjustment	R/W	0 ~ 10000	373D	R/W	0 ~ 10000	
1469	UP/DWN Storage Selection	R/W	00: Do not store frequency data 01: Store frequency data	36Ed	R/W	00 (Not save)/01 (Save)	
1471	AM Bias Setting	R/W	0 ~ 100	37F3	R/W	-1000 ~ 1000	
1472	AMI Bias Setting	R/W	0 ~ 100	37FD	R/W	-1000 ~ 1000	
1473	Overload 1 Warning Level 2	R/W	0 ~ 2000 (0.4 ~ 55kW) 0 ~ 1800 (75 ~ 132kW)	3847	R/W	(0.0 to 2.0) × Inverter rated current	
1486	Multi-function Output P1 ON Delay Time	R/W	0 ~ 1000	378C	R/W	0 ~ 10000	
1487	Multi-function Output P1 OFF Delay Time	R/W	0 ~ 1000	378D	R/W	0 ~ 10000	
1488	Multi-function Output P2 ON Delay Time	R/W	0 ~ 1000	378E	R/W	0 ~ 10000	
1489	Multi-function Output P2 OFF Delay Time	R/W	0 ~ 1000	378F	R/W	0 ~ 10000	
1490	Multi-function Relay Output MA, MB ON Delay Time	R/W	0 ~ 1000	3798	R/W	0 ~ 10000	
1491	Multi-function Relay Output MA, MB OFF Delay Time	R/W	0 ~ 1000	3799	R/W	0 ~ 10000	
1492	Logic Output Signal 1 Selection 1	R/W	-	37A0	R/W	0 ~ 93	
1493	Logic Output Signal 1 Selection 2	R/W	-	37A1	R/W	0 ~ 93	
1494	Logic Output Signal 1 Operator Selection	R/W	00: AND 01: OR 02: XOR	37A2	R/W	00: AND 01: OR 02: XOR	
1495	Logic Output Signal 2 Selection 1	R/W	-	37A3	R/W	0 ~ 93	
1496	Logic Output Signal 2 Selection 2	R/W	-	37A4	R/W	0 ~ 93	
1497	Logic Output Signal 2 Operator Selection	R/W	00: AND 01: OR 02: XOR	37A5	R/W	00: AND 01: OR 02: XOR	
1498	Logic Output Signal 3 Selection 1	R/W	-	37A6	R/W	0 ~ 93	
1499	Logic Output Signal 3 Selection 2	R/W	-	37A7	R/W	0 ~ 93	
1501	Auto-Tuning Selection	R/W	00: Disabled 01: Enabled (No motor rotation) 02: Enabled (Motor rotation)	3A99	R/W	00 (Disabled)/01 (Non-rotation)/02 (Rotation)/03 (VMS)	
1503	1st Motor Capacity	R/W	0-26	3AFE	R/W	1 ~ 16000	
1504	1st Motor Pole Number	R/W	0: 2P 1: 4P 2: 6P 3: 8P 4: 10P	3AFF	R/W	0 ~ 23	
1506	1st Speed Response	R/W	0 ~ 80000	3AA7	R/W	0 ~ 1000	32=>16
1507	1st Stabilization Parameter	R/W	0 ~ 255	3AA2	R/W	0 ~ 1000	
1516	1st Motor Parameter R1	R/W	1 ~ 65530	3B06	R/W	1 ~ 1000000000	16=>32
1518	1st Motor Parameter R2	R/W	1 ~ 65530	3B08	R/W	1 ~ 1000000000	16=>32
1525	1st Motor Parameter R1 (Auto-tuning Data)	R/W	1 ~ 65530	3B06	R/W	1 ~ 1000000000	16=>32
1527	1st Motor Parameter R2 (Auto-tuning Data)	R/W	1 ~ 65530	3B08	R/W	1 ~ 1000000000	16=>32
1529	1st Motor Parameter L (Auto-tuning Data)	R/W	1 ~ 65530	3B0A	R/W	1 ~ 1000000000	16=>32
1547	1st Limit at 0 Hz	R/W	0 ~ 1000	3B6A	R/W	0 ~ 100	
1548	1st Boost Amount at SLV Startup, 0 Hz	R/W	0 ~ 50	3B6C	R/W	0 ~ 50	
1551	For PI Proportional Gain Switching	R/W	0 ~ 10000	3AB4	R/W	0 ~ 10000	
1552	For PI Integral Gain Switching	R/W	0 ~ 10000	3AB5	R/W	0 ~ 10000	
1553	For P Proportional Gain Switching	R/W	0 ~ 1000	3AB6	R/W	0 ~ 10000	
1554	Gain Switching Time	R/W	0 ~ 9999	3AAD	R/W	0 ~ 10000	
1601	Operation Selection on Option 1 Error	R/W	00: Trip 01: Continues operation	3E96	R/W	00 (Error)/01 (Trip after deceleration stop)/02 (Ignore)/03 (Free run)/04 (Deceleration stop)	
1602	Operation Selection on Option 2 Error	R/W	00: Trip 01: Continues operation	3E8C	R/W	00 (Error)/01 (Trip after deceleration stop)/02 (Ignore)/03 (Free run)/04 (Deceleration stop)	
1610	Orientation Direction Setting	R/W	00: Forward side 01: Reverse side	307D	R/W	00 (Normal rotation)/01 (Reverse rotation)	
1611	Position Ready Range Setting	R/W	0 ~ 10000	3074	R/W	0 ~ 10000	
1612	Position Ready Delay Time Setting	R/W	0 ~ 999	3075	R/W	0 ~ 1000	
1613	Electronic Gear Setting Position Selection	R/W	00: Position feedback side (FB) 01: Position command side (REF)	3071	R/W	00 (Feedback side)/01 (Command side)	
1614	Electronic Gear Ratio Numerator	R/W	1 ~ 9999	3072	R/W	1 ~ 10000	
1615	Electronic Gear Ratio Denominator	R/W	1 ~ 9999	3073	R/W	1 ~ 10000	

3G3RX-V1				3G3RX2			Data size(Bit)
Modbus coil spec. No.	Item	R/W	Description	Modbus coil spec. No.	R/W	Description	
1616	Position Control Feedforward Gain	R/W	0 ~ 65535	3076	R/W	0 ~ 65535	
1617	Position Loop Gain	R/W	0 ~ 10000	3077	R/W	0 ~ 10000	
1618	Position Bias Amount	R/W	-2048 ~ 2048	3078	R/W	-2048 ~ 2048	
1619	Secondary Resistance Compensation Enable/Disable Selection	R/W	00: Disabled 01: Enabled	3B6D	R/W	00: Disabled 01: Enabled	
1620	Orientation Stop Position Input Type	R/W	00: Digital Operator 01: Option 1 02: Option 2	307A	R/W	00 (Parameter setting)/01 (Option 1)/ 02 (Option 2)/03 (Option 3)	
1621	Torque Reference Input Selection	R/W	00: Terminal FV 01: Terminal FI 02: Terminal FE 03: Digital Operator 06: Option	300D	R/W	00 (Disabled)/01 (Ai1 terminal input)/02 (Ai2 terminal input)/ 03 (Ai3 terminal input)/04 (Reserved)/05 (Reserved)/ 06 (Reserved)/07 (Parameter setting)/08 (RS 485)/ 09 (Option 1)/10 (Option 2)/11 (Option 3)/ 12 (Pulse string input: main unit)/ 13 (Pulse string input: Option)/15 (PID calculation)	
1622	Torque Reference Setting	R/W	0 ~ 200(0.4 ~ 55kW) 0 ~ 180(75 ~ 132kW)	300E	R/W	-5000 ~ 5000	
1623	Polarity Selection at Torque Reference via FE	R/W	00: Signed 01: Depends on the RUN direction	300F	R/W	00 (As per the sign)/ 01 (Follow the revolution direction)	
1624	Torque Bias Mode	R/W	00: None 01: Digital Operator 02: Terminal FE	3017	R/W	00 (Disabled)/01 (Ai1 terminal input)/02 (Ai2 terminal input)/ 03 (Ai3 terminal input)/04 (Reserved)/05 (Reserved)/ 06 (Reserved)/07 (Parameter setting)/08 (RS 485)/ 09 (Option 1)/10 (Option 2)/11 (Option 3)/ 12 (Pulse string input: main unit)/ 13 (Pulse string input: Option)/15 (PID calculation)	
1625	Torque Bias Value	R/W	200 ~ +200(0.4 ~ 55kW) -180 ~ +180(75 ~ 132kW)	3018	R/W	-5000 ~ 5000	
1626	Torque Bias Polarity Selection	R/W	00: Signed 01: Depends on the RUN direc	3019	R/W	00 (As per the sign)/ 01 (Follow the revolution direction)	
1628	Speed Limit Value in Torque Control (Forward)	R/W	0.00 to 1st Maximum Frequency(A004)	3035	R/W	0 ~ 59000	32->16
1633	Number of Poles for Rotation Speed Setting	R/W	0: 0P / 1: 2P 2: 4P / 3: 6P 4: 8P / 5: 10P 6: 12P / 7: 14P 8: 16P / 9: 18P 10: 20P / 11: 22P 12: 24P / 13: 26P 14: 28P / 15: 30P 16: 32P / 17: 34P 18: 36P / 19: 38P	3AFF	R/W	2 to 48 (poles)	
1639	Pulse Train Frequency Scale	R/W	10 ~ 500	3EF0	R/W	5 ~ 20000	
1640	Multi-step Position Command 1	R/W	Position range specification (reverse side) to Position range specification (forward side) Displays MSB 4 digits (1 digit for "-")	3086	R/W	-268435455 to 268435455 In high resolution mode: -1073741823 to 1073741823	
1642	Multi-step Position Command 2	R/W	Position range specification (reverse side) to Position range specification (forward side) Displays MSB 4 digits (1 digit for "-")	3088	R/W	-268435455 to 268435455 In high resolution mode: -1073741823 to 1073741823	
1644	Multi-step Position Command 3	R/W	Position range specification (reverse side) to Position range specification (forward side) Displays MSB 4 digits (1 digit for "-")	308A	R/W	-268435455 to 268435455 In high resolution mode: -1073741823 to 1073741823	
1646	Multi-step Position Command 4	R/W	Position range specification (reverse side) to Position range specification (forward side) Displays MSB 4 digits (1 digit for "-")	308C	R/W	-268435455 to 268435455 In high resolution mode: -1073741823 to 1073741823	
1648	Multi-step Position Command 5	R/W	Position range specification (reverse side) to Position range specification (forward side) Displays MSB 4 digits (1 digit for "-")	308E	R/W	-268435455 to 268435455 In high resolution mode: -1073741823 to 1073741823	
1650	Zero Return Mode 1 Frequency	R/W	0 ~ 1000	30B8	R/W	0 ~ 1000	
1651	Zero Return Mode 2 Frequency	R/W	0 ~ 40000	30B9	R/W	0 ~ 59000	
1665	DriveProgramming User Parameter U00	R/W	0 ~ 65535	47EA	R/W	0 ~ 65535	
1666	DriveProgramming User Parameter U01	R/W	0 ~ 65535	47EB	R/W	0 ~ 65535	
1667	DriveProgramming User Parameter U02	R/W	0 ~ 65535	47EC	R/W	0 ~ 65535	
1668	DriveProgramming User Parameter U03	R/W	0 ~ 65535	47ED	R/W	0 ~ 65535	
1669	DriveProgramming User Parameter U04	R/W	0 ~ 65535	47EE	R/W	0 ~ 65535	
1670	DriveProgramming User Parameter U11	R/W	0 ~ 65535	47F5	R/W	0 ~ 65535	
1671	DriveProgramming User Parameter U12	R/W	0 ~ 65535	47F6	R/W	0 ~ 65535	
1672	DriveProgramming User Parameter U13	R/W	0 ~ 65535	47F7	R/W	0 ~ 65535	
1673	DriveProgramming User Parameter U14	R/W	0 ~ 65535	47F8	R/W	0 ~ 65535	
1674	DriveProgramming User Parameter U15	R/W	0 ~ 65535	47F9	R/W	0 ~ 65535	
1675	DriveProgramming User Parameter U16	R/W	0 ~ 65535	47FA	R/W	0 ~ 65535	
1676	DriveProgramming User Parameter U17	R/W	0 ~ 65535	47FB	R/W	0 ~ 65535	
1677	DriveProgramming User Parameter U18	R/W	0 ~ 65535	47FC	R/W	0 ~ 65535	
1678	DriveProgramming User Parameter U19	R/W	0 ~ 65535	47FD	R/W	0 ~ 65535	
1679	DriveProgramming User Parameter U20	R/W	0 ~ 65535	47FE	R/W	0 ~ 65535	
1680	DriveProgramming User Parameter U27	R/W	0 ~ 65535	4805	R/W	0 ~ 65535	
1681	DriveProgramming User Parameter U28	R/W	0 ~ 65535	4806	R/W	0 ~ 65535	
1682	DriveProgramming User Parameter U29	R/W	0 ~ 65535	4807	R/W	0 ~ 65535	
1683	DriveProgramming User Parameter U30	R/W	0 ~ 65535	4808	R/W	0 ~ 65535	
1684	DriveProgramming User Parameter U31	R/W	0 ~ 65535	4809	R/W	0 ~ 65535	

3G3RX-V1				3G3RX2			Data size(Bit)
Modbus coil spec. No.	Item	R/W	Description	Modbus coil spec. No.	R/W	Description	
2103	2nd acceleration time 1	R/W	1 ~ 360000	56CC	R/W	0 ~ 360000	
2105	2nd deceleration time 1	R/W	1 ~ 360000	56CE	R/W	0 ~ 360000	
2203	2nd Base Frequency	R/W	30. to 2nd Maximum Frequency (A204)	6210	R/W	1000 ~ 59000	
2204	2nd Maximum Frequency	R/W	30 ~ 400	6211	R/W	1000 ~ 59000	
2216	2nd Multi-step Speed Reference 0	R/W	2nd Multi-step Speed Reference 0	565E	R/W	0 ~ 59000	32=>16
2240	2nd Automatic Torque Boost Voltage Compensation Gain	R/W	0 ~ 255	6271	R/W	0 ~ 255	
2241	2nd Automatic Torque Boost Slip Compensation Gain	R/W	0 ~ 255	6272	R/W	0 ~ 255	
2251	2nd Frequency Lower Limit	R/W	2nd Frequency Lower Limit	59DB	R/W	0 ~ 59000	32=>16
2271	2nd Deceleration Time 2	R/W	1 ~ 360000	56D2	R/W	0 ~ 360000	
2273	2nd 2-step Acceleration/Deceleration Selection	R/W	2nd 2-step Acceleration/Deceleration Selection	56C7	R/W	00 ([2CH] terminal)/01 (Parameter setting)/02 (Switching normal/reverse rotation)	
2274	2nd 2-step Acceleration Frequency	R/W	0 ~ 40000	56C8	R/W	0 ~ 59000	32=>16
2276	2nd 2-step Deceleration Frequency	R/W	0 ~ 40000	56C9	R/W	0 ~ 59000	32=>16
2503	2nd Motor Capacity	R/W	0~26	620E	R/W	1 ~ 16000	
2504	2nd Motor Pole Number	R/W	0: 2P 1: 4P 2: 6P 3: 8P 4: 10P	620F	R/W	0 ~ 23	
2506	2nd Speed Response	R/W	0 ~ 80000	61B7	R/W	0 ~ 1000	32=>16
2507	2nd Stabilization Parameter	R/W	0 ~ 255	61B2	R/W	0 ~ 1000	
2516	2nd Motor Parameter R1	R/W	1 ~ 65530	6216	R/W	1 ~ 1000000000	16=>32
2518	2nd Motor Parameter R2	R/W	1 ~ 65530	6218	R/W	1 ~ 1000000000	16=>32
2525	2nd Motor Parameter R1 (Auto-tuning Data)	R/W	1 ~ 65530	6216	R/W	1 ~ 1000000000	16=>32
2527	2nd Motor Parameter R2 (Auto-tuning Data)	R/W	1 ~ 65530	6218	R/W	1 ~ 1000000000	16=>32
2529	2nd Motor Parameter L (Auto-tuning Data)	R/W	1 ~ 65530	621A	R/W	1 ~ 1000000000	16=>32
2547	2nd Limit at 0 Hz	R/W	0 ~ 1000	627A	R/W	0 ~ 100	
2548	2nd Boost Amount at SLV Startup, 0 Hz	R/W	0 ~ 50	627C	R/W	0 ~ 50	
001A	Fault Monitor 1 (Latest)	R	0~999900	03F6	R	0 ~ 1000000	
001C	Fault Monitor 2	R	0 ~ 79	03FD	R	1 ~ 255	
001D	Fault Monitor 2	R	0 ~ 9	0402	R	0 ~ 8	
001E	Fault Monitor 2	R	0 ~ 40000	03FE	R	-59000 ~ 59000	
002A	Fault Monitor 3	R	0 ~ 9999	0414	R	0 ~ 65535	
002B	Fault Monitor 3	R	0 ~ 9999	0415	R	0 ~ 10000	
002C	Fault Monitor 3	R	0~999900	041C	R	0 ~ 1000000	
002E	Fault Monitor 3	R	0~999900	041E	R	0 ~ 1000000	
003A	Fault Monitor 5	R	0 ~ 79	0439	R	1 ~ 255	
003B	Fault Monitor 5	R	0 ~ 9	043E	R	0 ~ 8	
003C	Fault Monitor 5	R	0 ~ 40000	043A	R	-59000 ~ 59000	
003E	Fault Monitor 5	R	0 ~ 9999	043C	R	0 ~ 65535	
003F	Fault Monitor 5	R	0 ~ 9999	043D	R	0 ~ 10000	
004A	Fault Monitor 6	R	0~999900	0458	R	0 ~ 1000000	
004C	Fault Monitor 6	R	0~999900	045A	R	0 ~ 1000000	
004E	Warning Monitor	R	ワーニングコード	05DC	R	0 ~ 65535	
100B	Real Frequency Monitor	R	-40000~40000	2718	R	-59000~59000	
100D	Torque Reference Monitor	R	-200 ~ +200	2B07	R/W	-5000~5000	
100E	Torque Bias Monitor	R	-200 ~ +200	2B08	R/W	-5000~5000	
101A	Motor Temperature Monitor	R	-200 ~ +2000	2736	R	-200 ~ +2000	
101D	Life Assessment Monitor	R	1: Main circuit board capacitor 2: Cooling fan rotation speed reduced	27E8	R	0~0xFF	
102D	User Monitor 0 (DriveProgramming)	R	- 2147483647 ~ +2147483647	277C	R	- 2147483647 ~ +2147483647	
102F	User Monitor 1 (DriveProgramming)	R	- 2147483647 ~ +2147483647	277E	R	- 2147483647 ~ +2147483647	
120B	FV Start Frequency	R/W	0 ~ 40000	3717	R/W	0 ~ 10000	32=>16
120D	FV End Frequency	R/W	0 ~ 40000	3718	R/W	0 ~ 10000	32=>16
120F	FV Start Ratio	R/W	0. to FV End Ratio (A014)	3719	R/W	0 ~ 1000 (Cb-06)	
1213	Drive Programming Function Selection	-	00: Disabled 01: Enabled (Start/stop via multi-function input PRG terminal) 02: Enabled (Start/stop via power on/off)	47E2	R/W	0~2	
121A	Multi-step speed reference 2	R/W	0.00 Starting Frequency (b082) to 1st/2nd/3rd Maximum Frequency (A004/A204/A304)	2F50	R/W	0 ~ 59000	32=>16
121C	Multi-step speed reference 3	R/W	0.00 Starting Frequency (b082) to 1st/2nd/3rd Maximum Frequency (A004/A204/A304)	2F51	R/W	0 ~ 59000	32=>16
121E	Multi-step speed reference 4	R/W	0.00 Starting Frequency (b082) to 1st/2nd/3rd Maximum Frequency (A004/A204/A304)	2F52	R/W	0 ~ 59000	32=>16
122A	Multi-step speed reference 10	R/W	0.00 Starting Frequency (b082) to 1st/2nd/3rd Maximum Frequency (A004/A204/A304)	2F58	R/W	0 ~ 59000	32=>16
122C	Multi-step speed reference 11	R/W	0.00 Starting Frequency (b082) to 1st/2nd/3rd Maximum Frequency (A004/A204/A304)	2F59	R/W	0 ~ 59000	32=>16
122E	Multi-step speed reference 12	R/W	0.00 Starting Frequency (b082) to 1st/2nd/3rd Maximum Frequency (A004/A204/A304)	2F5A	R/W	0 ~ 59000	32=>16
123B	1st Torque Boost Selection	R/W	00: Manual torque boost 01: Automatic torque boost	3B24	R/W	00: Disabled 01: Always enabled 02: Enabled only for forward revolution 03: Enabled only for reverse revolution	
123C	1st Manual Torque Boost Voltage	R/W	0 ~ 200	3B25	R/W	0 ~ 200	
123D	1st Manual Torque Boost Frequency	R/W	0 ~ 500	3B26	R/W	0 ~ 500	
123E	1st Control Method	R/W	(CT) 00: Constant torque characteristics (VC) 01: Reduced torque characteristics (VP 1.7th power (VC at low speed)) 02: Free V/f setting 03: Sensorless vector control (SLV) 04: 0-Hz sensorless vector control 05: Sensor vector control (V2) (VT) 00: Constant torque characteristics (VC) 01: Reduced torque characteristics (VP 1.7th power (VC at low speed)) 02: Free V/f setting 03: Sensorless vector control (SLV)	2EF5	R/W	00 ([V/f] Fixed torque characteristics (IM))/ 01 ([V/f] Reducing torque characteristics (IM))/ 02 ([V/f] Free V/f (IM))/03 ([V/f] Auto torque boost (IM))/ 04 ([V/f with sensor] Fixed torque characteristics (IM))/ 05 ([V/f with sensor] Reduced torque characteristics (IM))/ 06 ([V/f with sensor] Free V/f (IM))/ 07 ([V/f with sensor] Auto torque boost (IM))/ 08 (Sensorless vector control (IM))/ 09 (Zero-Hz range sensorless vector control (IM)) / 10 (Vector control with sensor (IM)) / 11 (Synchronous start type sensorless vector control (SM/PMM))/ 12 (IVMS start type sensorless vector control (SM/PMM))	

3G3RX-V1				3G3RX2			Data size(Bit)
Modbus coil spec. No.	Item	R/W	Description	Modbus coil spec. No.	R/W	Description	
123F	Output Voltage Gain	R/W	20 ~ 100	3B4C	R/W	0 ~ 255	
124A	DC Injection Braking Edge/Level Selection	R/W	00: Edge operation 01: Level operation	30DB	R/W	00 (Edge mode)/01 (Level mode)	
124B	Startup DC Injection Braking Power	R/W	0 ~ 100(0.4 ~ 55kW) 0 ~ 80(75 ~ 132kW)	30DC	R/W	0 ~ 100	
124C	Startup Internal DC Injection Braking Time	R/W	0 ~ 600	30DD	R/W	0 ~ 6000	
124F	1st Frequency Upper Limit	R/W	0.00: Disabled (Function not active) 1st Frequency Lower Limit (A062) to 1st Maximum Frequency (A004)	32CA	R/W	0 ~ 59000	32=>16
125B	Jump Frequency Width 3	R/W	0 ~ 1000	313E	R/W	0 ~ 1000	
125C	Acceleration Stop Frequency	R/W	0 ~ 40000	3142	R/W	0 ~ 59000	32=>16
125E	Acceleration Stop Time	R/W	0 ~ 600	3143	R/W	0 ~ 600	
125F	PID Selection	R/W	00: Disabled 01: Enabled 02: Reverse output enabled	319D	R/W	00 (Disabled)/ 01 (Enabled Without reverse output)/ 02 (Enabled With reverse output)	
126A	Motor Incoming Voltage Selection	R/W	200-V class: 200/215/220/230/240 400-V class: 380/400/415/440/460/480	3B02	R/W	1 ~ 1000/ 1 ~ 1000	
126D	RUN Mode Selection	R/W	(CT) 00: Normal operation 01: Energy-saving operation 02: Automatic operation (VT) 00: Normal operation 01: Energy-saving operation	3B29	R/W	00: Disabled 01: Enabled	
126E	Energy-Saving Response/Accuracy Adjustment	R/W	0 ~ 1000	3B2A	R/W	0 ~ 100	
127B	1st 2-step Deceleration Frequency	R/W	0 ~ 40000	2FB9	R/W	0 ~ 59000	32=>16
127D	Acceleration Pattern Selection	R/W	00: Line 01: S-shape curve 02: U-shape curve 03: Inverted U-shape curve 04: EL-S-shape curve	2FAB	R/W	00: Linear 01: S-shaped 02: U-shaped 03: Reverse U-shaped 04: Elevator S-shaped	
127E	Deceleration Pattern Selection	R/W	00: Line 01: S-shape curve 02: U-shape curve 03: Inverted U-shape curve 04: EL-S-shape curve	2FAC	R/W	00: Linear 01: S-shaped 02: U-shaped 03: Reverse U-shaped 04: Elevator S-shaped	
128D	FE Start Frequency	R/W	-40000 ~ 40000	372B	R/W	-10000 ~ 10000	32=>16
128F	FE End Frequency	R/W	-40000 ~ 40000	372C	R/W	-10000 ~ 10000	32=>16
12A5	Acceleration Curve Parameter	R/W	01 (Small curve) to 10 (Large curve)	2FAD	R/W	1 to 10	
12A6	Deceleration Curve Parameter	R/W	01 (Small curve) to 10 (Large curve)	2FAE	R/W	1 to 10	
12AF	Operation Frequency Input A Setting	R/W	00: Digital Operator 01: Digital Operator (Volume adjuster) *1 02: Input FV (Voltage) 03: Input FI (Current) 04: Modbus communication 05: Option 1 06: Option 2 07: Pulse train frequency	2EE1	R/W	01 (Ai1 terminal input)/02 (Ai2 terminal input)/ 03 (Ai3 terminal input)/07 (Parameter setting)/08 (RS 485)/ 09 (Option 1)/10 (Option 2)/11 (Option 3)/ 12 (Pulse string input: main unit)/ 13 (Pulse string input: Option)/14 (Program function)/ 15 (PID calculation)	
12B0	Operation Frequency Input B Setting	R/W	00: Digital Operator 01: Digital Operator (Volume adjuster) *1 02: Input FV (Voltage) 03: Input FI (Current) 04: Modbus communication 05: Option 1 06: Option 2 07: Pulse train frequency	2EE2	R/W	00 (Disabled)/01 (Ai1 terminal input)/02 (Ai2 terminal input)/ 03 (Ai3 terminal input)/07 (Parameter setting)/08 (RS 485)/ 09 (Option 1)/10 (Option 2)/11 (Option 3)/ 12 (Pulse string input: main unit)/ 13 (Pulse string input: Option)/14 (Program function)/ 15 (PID calculation)	
12B1	Operation Function Operator Selection	R/W	00: Addition (A141 + A142) 01: Subtraction (A141 - A142) 02: Multiplication (A141 x A142)	2EE5	R/W	00 (Disabled)/01 (Addition)/02 (Subtraction)/ 03 (Multiplication)	
12B3	Frequency Addition Amount Setting	R/W	0 ~ 40000	2EE6	R/W	-59000 ~ 59000	
12B9	EL-S Shape Acceleration Curve Ratio 1	R/W	0 ~ 50	2FB0	R/W	0 ~ 100	
12BA	EL-S Shape Acceleration Curve Ratio 2	R/W	0 ~ 50	2FB1	R/W	0 ~ 100	
12BB	EL-S Shape Deceleration Curve Ratio 1	R/W	0 ~ 50	2FB2	R/W	0 ~ 100	
12BC	EL-S Shape Deceleration Curve Ratio 2	R/W	0 ~ 50	2FB3	R/W	0 ~ 100	
130A	Undervoltage Retry Count Selection	R/W	00: 16 times 01: No limit	3341	R/W	0 to 16/255	
130B	Overvoltage/Overcurrent Restart Count Selection	R/W	1~3	3342	R/W	0 ~ 5	
130C	Overvoltage/Overcurrent Restart Standby Time	R/W	3 ~ 1000	3349	R/W	3 ~ 1000	
130D	1st Electronic Thermal Level	R/W	200 ~ 1000	339A	R/W	(0.0 to 3.0) x Inverter rated current	
130E	1st Electronic Thermal Characteristics Selection	R/W	00: Reduced torque characteristics 01: Constant torque characteristics 02: Free setting	339B	R/W	00 (Reduction characteristics)/ 01 (Constant torque characteristics)/ 02 (Arbitrary setting)	
131A	Overload limit level 2	R/W	200 ~ 2000(0.4 ~ 55kW) 200 ~ 1800(75 ~ 132kW)	32E3	R/W	(0.2 to 2.0) x Inverter rated current (A)	
131B	Overload Limit Parameter 2	R/W	10 ~ 3000	32E4	R/W	10 ~ 360000	16=>32
131C	Overcurrent Suppression Selection	R/W	00: Disabled 01: Enabled	32DC	R/W	00 (Disabled)/01 (Enabled)	
131D	Frequency Pullin Restart Level	R/W	200 ~ 2000(0.4 ~ 55kW) 200 ~ 1800(75 ~ 132kW)	3357	R/W	(0.0 to 2.0) x Inverter rated current (A)	
131E	Frequency Pullin Restart Parameter	R/W	10 ~ 3000	3358	R/W	0.10 to 30.00 (s)	
131F	Starting Frequency at Frequency Pullin Restart Selection	R/W	00: Frequency at shutoff 01: Max. frequency 02: Set frequency (Reference frequency)	335B	R/W	00 (Cutoff frequency)/ 01 (Maximum frequency)/02 (Setting frequency)	
132A	Torque Limit Selection	R/W	00: Four-quadrant separate setting (b041 to b044) 01: Terminal switching 02: Analog voltage input 03: Option 1 04: Option 2	32D2 32D3	R/W		0
132B	Torque Limit 1 (Four-quadrant Mode Forward Power Running)	R/W	0 ~ 200(0.4 ~ 55kW) / 0 ~ 180(75 ~ 132kW) /255(no)	32D4	R/W	0 ~ 5000	
132C	Torque Limit 2 (Four-quadrant Mode Reverse Regeneration)	R/W	0 ~ 200(0.4 ~ 55kW) / 0 ~ 180(75 ~ 132kW) /255(no)	32D5	R/W	0 ~ 5000	
132D	Torque Limit 3 (Four-quadrant Mode Reverse Power Running)	R/W	0 ~ 200(0.4 ~ 55kW) / 0 ~ 180(75 ~ 132kW) /255(no)	32D6	R/W	0 ~ 5000	
132E	Torque Limit 4 (Four-quadrant Mode Forward Regeneration)	R/W	0 ~ 200(0.4 ~ 55kW) / 0 ~ 180(75 ~ 132kW) /255(no)	32D7	R/W	0 ~ 5000	
132F	Torque LADSTOP Selection	R/W	00: Disabled 01: Enabled	32D8	R/W	00 (Disabled)/01 (Enabled)	
133A	Proportional Gain	R/W	0 ~ 255	32Ed	R/W	0 ~ 500	
133B	Integral Time	R/W	0 ~ 65535	32Ee	R/W	0 ~ 15000	
133F	Window Comparator FV Upper Limit Level	R/W	0 ~ 100	3868	R/W	0 ~ 100	
134A	Analog Operation Level at FI Disconnection	R/W	0 ~ 100	3874	R/W	0 to 100	16=>16
134B	Analog Operation Level at FE Disconnection	R/W	-100 ~ 100	3876	R/W	-100 to 100	16=>16

3G3RX-V1				3G3RX2			Data size(Bit)
Modbus coil spec. No.	Item	R/W	Description	Modbus coil spec. No.	R/W	Description	
135A	STOP Key Selection	R/W	00: Enabled 01: Disabled 02: Only RESET enabled	2EED	R/W	00 (Disabled)/01 (Enabled)/ 02 (Only reset is enabled)	
135B	Free-Run Stop Selection	R/W	00: 0 Hz-restart 01: Frequency matching restart 02: Frequency pull-in restart	3354	R/W	00 (0Hz)/01 (Frequency matching)/ 02 (Frequency entrainment)/ 03 (Detection speed)	
135C	Automatic Carrier Reduction	R/W	00: Disabled 01: Enabled, dependent on the current	332F	R/W	00 (Disabled)/01 (Enabled: current)/ 02 (Enabled: temperature)	
135D	Usage Rate of Regenerative Braking	R/W	0 ~ 1000	3304	R/W	0.0 to 10.0 × [(bA-63)/minimum resistance]2 (%)	
135E	Stop Selection	R/W	00: Deceleration stop 01: Free-run stop	2EEF	R/W	00 (Deceleration stop)/01 (Free run stop)	
135F	Cooling Fan Operation	R/W	00: Always enabled 01: Enabled only during RUN (including 5 minutes after power on/stop)	330E	R/W	00 (Always ON)/ 01 (ON during operation)/ 02 (Temperature dependent)	
136A	Free V/f Voltage 2	R/W	0 ~ 8000	3B31	R/W	0 ~ 10000	
136B	Free V/f Frequency 3	R/W	0: Disabled (Function not active) Free V/f Frequency 2 to Free V/f Frequency 4	3B32	R/W	0 ~ 59000(Hb152)~(Hb156)	
136C	Free V/f Voltage 3	R/W	0 ~ 8000	3B33	R/W	0 ~ 10000	
136D	Free V/f Frequency 4	R/W	0: Disabled (Function not active) Free V/f Frequency 3 to Free V/f Frequency 5	3B34	R/W	0 ~ 59000(Hb154)~(Hb158)	
136E	Free V/f Voltage 4	R/W	0 ~ 8000	3B35	R/W	0 ~ 10000	
136F	Free V/f Frequency 5	R/W	0: Disabled (Function not active) Free V/f Frequency 4 to Free V/f Frequency 6	3B36	R/W	0 ~ 59000(Hb156)~(Hb160)	
137B	Brake Control Function Selection	R/W	00: Disabled 01: Enabled	30F2	R/W	00 (Disabled)/ 01 (Brake control 1 common in forward/reverse rotation)/ 02 (Brake control 1 forward/reverse set individually)/ 03 (Brake control 2)	
137C	Brake Release Wait Time	R/W	0 ~ 500	30F3	R/W	0 ~ 500	
137D	Acceleration Wait Time	R/W	0 ~ 500	30F4	R/W	0 ~ 500	
137E	Stop Wait Time	R/W	0 ~ 500	30F5	R/W	0 ~ 500	
137F	Brake Wait Time for Confirmation	R/W	0 ~ 500	30F6	R/W	0 ~ 500	
140B	Multi-function Input S1 Operation Selection	R/W	00:NO 01:NC	36C5	R/W	00:NO 01:NC	
140C	Multi-function Input S2 Operation Selection	R/W	00:NO 01:NC	36C6	R/W	00:NO 01:NC	
140D	Multi-function Input S3 Operation Selection	R/W	00:NO 01:NC	36C7	R/W	00:NO 01:NC	
140E	Multi-function Input S4 Operation Selection	R/W	00:NO 01:NC	36C8	R/W	00:NO 01:NC	
140F	Multi-function Input S5 Operation Selection	R/W	00:NO 01:NC	36C9	R/W	00:NO 01:NC	
141A	Multi-function Relay Output (MA, MB) Function Selection	R/W	-	377F	R/W	0 ~ 93	
141B	MP Selection	R/W	-	37DF	R/W	-	
141C	AM Selection	R/W	-	37E0	R/W	-	
141D	AMI Selection	R/W	-	37E1	R/W	-	
141E	Digital Current Monitor Reference Value	R/W	200 ~ 2000	37De	R/W	0 ~ 3600	
141F	Multi-function Output Terminal P1 Contact Selection	R/W	0:NO 1:NC	3783	R/W	0:NO 1:NC	
142A	Arrival Frequency During Acceleration 1	R/W	0 ~ 40000	384A	R/W	0 ~ 59000	32=>16
142C	Arrival Frequency During Deceleration 1	R/W	0 ~ 40000	384B	R/W	0 ~ 59000	32=>16
142E	PID Deviation Excessive Level	R/W	0 ~ 1000	31E4	R/W	0 ~ 10000	
142F	Arrival Frequency During Acceleration 2	R/W	0 ~ 40000	384C	R/W	0 ~ 59000	32=>16
143B	Overtorque level (Forward power running)	R/W	0 ~ 200 (0.4 ~ 55kW) 0 ~ 180 (75 ~ 132kW)	3854	R/W	0 ~ 5000	
143C	Overtorque level (Reverse regeneration)	R/W	0 ~ 200 (0.4 ~ 55kW) 0 ~ 180 (75 ~ 132kW)	3855	R/W	0 ~ 5000	
143D	Overtorque level (Reverse power running)	R/W	0 ~ 200 (0.4 ~ 55kW) 0 ~ 180 (75 ~ 132kW)	3856	R/W	0 ~ 5000	
143E	Overtorque level (Forward regeneration)	R/W	0 ~ 200 (0.4 ~ 55kW) 0 ~ 180 (75 ~ 132kW)	3857	R/W	0 ~ 5000	
144B	Communication Speed Selection	R/W	02: Loop-back test 03: 2,400 bps 04: 4,800 bps 05: 9,600 bps 06: 19,200 bps	38A5	R/W	03(2400bps)/04(4800bps)/ 05(9600bps)/06(19.2kbps)/ 07(38.4kbps)/08(57.6kbps)/ 09(76.8kbps)/10(115.2kbps)	
144C	Communication Station No. Selection	R/W	1 ~ 32	38A6	R/W	1 ~ 247	
144E	Communication Parity Selection	R/W	00: No parity 01: Even parity 02: Odd parity	38A7	R/W	00 (Without parity)/ 01 (Even number parity)/02 (Odd number parity)	
144F	Communication Stop Bit Selection	R/W	1: 1bit 2: 2bit	38A8	R/W	1: 1bit 2: 2bit	
146A	Reset Selection	R/W	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	36F8	R/W	00 (On to Release Trip)/01 (Off to Release Trip)/ 02 (On to Release at Trip)/03 (Off to Release at Trip)	
146B	Reset Restart Selection	R/W	00: 0 Hz restart 01: Frequency matching restart 02: Frequency pull-in restart	3355	R/W	00 (0Hz)/01 (Frequency matching)/ 02 (Frequency entrainment)/ 03 (Detection speed)	
146D	MP Gain Setting	R/W	50 ~ 200	37Ea	R/W	-10000 ~ 10000	
146E	AM Gain Setting	R/W	50 ~ 200	37F4	R/W	-10000 ~ 10000	
146F	AMI Gain Setting	R/W	50 ~ 200	37Fe	R/W	-10000 ~ 10000	
147D	FV Zero Adjustment	R/W	0 ~ 65530	3732	R/W	-10000 ~ 10000	
147E	FI Zero Adjustment	R/W	0 ~ 65530	3734	R/W	-10000 ~ 10000	
147F	FE Zero Adjustment	R/W	0 ~ 65530	3736	R/W	-10000 ~ 10000	
148A	Multi-function Output P3 ON Delay Time	R/W	0 ~ 1000	3790	R/W	0 ~ 10000	
148B	Multi-function Output P3 OFF Delay Time	R/W	0 ~ 1000	3791	R/W	0 ~ 10000	
148C	Multi-function Output P4 ON Delay Time	R/W	0 ~ 1000	3792	R/W	0 ~ 10000	
148D	Multi-function Output P4 OFF Delay Time	R/W	0 ~ 1000	3793	R/W	0 ~ 10000	
148E	Multi-function Output P5 ON Delay Time	R/W	0 ~ 1000	3794	R/W	0 ~ 10000	
148F	Multi-function Output P5 OFF Delay Time	R/W	0 ~ 1000	3795	R/W	0 ~ 10000	

3G3RX-V1				3G3RX2			Data size(Bit)
Modbus coil spec. No.	Item	R/W	Description	Modbus coil spec. No.	R/W	Description	
149A	Logic Output Signal 3 Operator Selection	R/W	00:AND 01:OR 02:XOR	37A8	R/W	00:AND 01:OR 02:XOR	
149B	Logic Output Signal 4 Selection 1	R/W	-	37A9	R/W	0 ~ 93	
149C	Logic Output Signal 4 Selection 2	R/W	-	37Aa	R/W	0 ~ 93	
149D	Logic Output Signal 4 Operator Selection	R/W	00:AND 01:OR 02:XOR	37Ab	R/W	00:AND 01:OR 02:XOR	
149E	Logic Output Signal 5 Selection 1	R/W	-	37Ac	R/W	0 ~ 93	
149F	Logic Output Signal 5 Selection 2	R/W	-	37Ad	R/W	0 ~ 93	
14A0	Logic Output Signal 5 Operator Selection	R/W	00:AND 01:OR 02:XOR	37Ae	R/W	00:AND 01:OR 02:XOR	
14A1	Logic Output Signal 6 Selection 1	R/W	-	37Af	R/W	0 ~ 93	
14A2	Logic Output Signal 6 Selection 2	R/W	-	37B0	R/W	0 ~ 93	
14A3	Logic Output Signal 6 Operator Selection	R/W	00:AND 01:OR 02:XOR	37B1	R/W	00:AND 01:OR 02:XOR	
14A4	Multi-function Input S1 Response Time Selection	R/W	0 ~ 200	36D9	R/W	0 ~ 400	
14A5	Multi-function Input S2 Response Time Selection	R/W	0 ~ 200	36Da	R/W	0 ~ 400	
14A6	Multi-function Input S3 Response Time Selection	R/W	0 ~ 200	36Db	R/W	0 ~ 400	
14A7	Multi-function Input S4 Response Time Selection	R/W	0 ~ 200	36Dc	R/W	0 ~ 400	
14A8	Multi-function Input S5 Response Time Selection	R/W	0 ~ 200	36Dd	R/W	0 ~ 400	
14A9	Multi-function Input S6 Response Time Selection	R/W	0 ~ 200	36De	R/W	0 ~ 400	
14AA	Multi-function Input S7 Response Time Selection	R/W	0 ~ 200	36Df	R/W	0 ~ 400	
14AB	Multi-function Input S8 Response Time Selection	R/W	0 ~ 200	36E0	R/W	0 ~ 400	
14AC	Input FW Response Time	R/W	0 ~ 200	36E1	R/W	0 ~ 400	
14AD	Multi-step Speed/Position Determination Time	R/W	0 ~ 200	36E7	R/W	0 ~ 2000	
151A	1st Motor Parameter L	R/W	1 ~ 65530	3B0A	R/W	1 ~ 1000000000	16=>32
151C	1st Motor Parameter Io	R/W	1 ~ 65530	3B0C	R/W	1 ~ 1000000	16=>32
151D	1st Motor Parameter J	R/W	1 ~ 9999000	3B0E	R/W	1 ~ 1000000000	
152B	1st Motor Parameter Io (Auto-tuning Data)	R/W	1 ~ 65530	3B0C	R/W	1 ~ 1000000	16=>32
152C	1st Motor Parameter J (Auto-tuning Data)	R/W	1 ~ 9999000	3B0E	R/W	1 ~ 1000000000	
153D	1st PI Proportional Gain	R/W	0 ~ 10000	3AB1	R/W	0 ~ 10000	
153E	1st PI Integral Gain	R/W	0 ~ 10000	3AB2	R/W	0 ~ 10000	
153F	1st P Proportional Gain	R/W	0 ~ 1000	3AB3	R/W	0 ~ 10000	
160B	Number of Encoder Pulses	R/W	128 ~ 65535	3EE5	R/W	32 ~ 65535	
160C	V2 control mode selection	R/W	0: ASR 1: APR 2: APR2 3: HAPR	2EF7	R/W	00 (Speed/torque control mode)/ 01 (Pulse string position control mode)/ 02 (Absolute position control mode)/ 03 (High-resolution absolute position control mode)	
160D	Pulse Train Node Selection	R/W	00: Mode 0 01: Mode 1 02: Mode 2	3EEF	R/W	00 (90° phase difference)/ 01 (forward/reverse rotation command and rotation direction)/ 02 (forward/reverse rotation pulse string)	
160E	Orientation Stop Position	R/W	0 ~ 4095	307B	R/W	0 ~ 4095	
160F	Orientation Speed Setting	R/W	Starting Frequency (b082) to 1st Maximum Frequency (A004) (Upper limit: 120.0)	307C	R/W	0 ~ 12000	
161A	Overspeed Error Detection Level	R/W	0 ~ 1500	337C	R/W	0 ~ 1500	
161B	Speed Deviation Error Detection Level	R/W	0 ~ 12000	337F	R/W	1 ~ 1000	
161C	Motor Gear Ratio Numerator	R/W	1 ~ 9999	3EE7	R/W	1 ~ 10000	
161D	Motor Gear Ratio Denominator	R/W	1 ~ 9999	3EE8	R/W	1 ~ 10000	
161F	Acceleration/Deceleration Time Input Type	R/W	00: Digital Operator 01: Option 1 02: Option 2 03: DriveProgramming	2FA9	R/W	00 (Parameter setting)/01 (Option 1)/ 02 (Option 2)/03 (Option 3)/04 (DriveProgramming)	
162A	Speed Limit Value in Torque Control (Reverse)	R/W	0.00 to 1st Maximum Frequency (A004)	3036	R/W	0 ~ 59000	32=>16
162F	Operation at Host Communications Error Selection	R/W	00: Trip 01: Trip after deceleration stop 02: Ignore 03: Free-run stop 04: Deceleration stop	3E8C	R/W	00 (Error)/ 01 (Trip after deceleration stop)/02 (Ignore)/ 03 (Free run)/04 (Deceleration stop)	
163A	Pulse Train Frequency Filter Time Parameter	R/W	1 ~ 200	3EF1	R/W	1 ~ 200	
163B	Pulse Train Bias Amount	R/W	-100 ~ +100	3EF2	R/W	-1000 ~ 1000	
163C	Pulse Train Limit	R/W	0 ~ 100	3EF3	R/W	0 ~ 1000	
163E	Multi-step Position Command 0	R/W	Position range specification (reverse side) to Position range specification (forward side) Displays MSB 4 digits (1 digit for "-")	3084	R/W	-268435455 to 268435455 In high resolution mode: -1073741823 to 1073741823	
164A	Multi-step Position Command 6	R/W	Position range specification (reverse side) to Position range specification (forward side) Displays MSB 4 digits (1 digit for "-")	3090	R/W	-268435455 to 268435455 In high resolution mode: -1073741823 to 1073741823	
164C	Multi-step Position Command 7	R/W	Position range specification (reverse side) to Position range specification (forward side) Displays MSB 4 digits (1 digit for "-")	3092	R/W	-268435455 to 268435455 In high resolution mode: -1073741823 to 1073741823	
164E	Zero Return Mode	R/W	00: Origin search mode 1 01: Origin search mode 2 02: Origin search mode 3	30B6	R/W	00 (Low speed zero return)/ 01 (High speed zero return)/ 02 (High speed zero return 2)	
164F	Zero Return Direction Selection	R/W	00: Forward side 01: Reverse side	30B7	R/W	00 (Normal rotation)/01 (Reverse rotation)	
1652	Position Range Setting (Forward Side)	R/W	0 to 268435455 (When P012 = 02) 0 to 1073741823 (When P012 = 03) (Displays MSB 4 digits)	30A4	R/W	0 to 268435455 In high resolution mode: 0 to 1073741823	
1654	Position Range Setting (Reverse Side)	R/W	-268435455 to 0 (When P012 = 02) -1073741823 to 0 (When P012 = 03) (Displays MSB 4 digits (1 digit for "-"))	30A6	R/W	-268435455 to 0 In high resolution mode: -1073741823 to 0	

3G3RX-V1				3G3RX2			
Modbus coil spec. No.	Item	R/W	Description	Modbus coil spec. No.	R/W	Description	Data size(Bit)
166A	DriveProgramming User Parameter U05	R/W	0 ~ 65535	47EF	R/W	0 ~ 65535	
166B	DriveProgramming User Parameter U06	R/W	0 ~ 65535	47F0	R/W	0 ~ 65535	
166C	DriveProgramming User Parameter U07	R/W	0 ~ 65535	47F1	R/W	0 ~ 65535	
166D	DriveProgramming User Parameter U08	R/W	0 ~ 65535	47F2	R/W	0 ~ 65535	
166E	DriveProgramming User Parameter U09	R/W	0 ~ 65535	47F3	R/W	0 ~ 65535	
166F	DriveProgramming User Parameter U10	R/W	0 ~ 65535	47F4	R/W	0 ~ 65535	
167A	DriveProgramming User Parameter U21	R/W	0 ~ 65535	47FF	R/W	0 ~ 65535	
167B	DriveProgramming User Parameter U22	R/W	0 ~ 65535	4800	R/W	0 ~ 65535	
167C	DriveProgramming User Parameter U23	R/W	0 ~ 65535	4801	R/W	0 ~ 65535	
167D	DriveProgramming User Parameter U24	R/W	0 ~ 65535	4802	R/W	0 ~ 65535	
167E	DriveProgramming User Parameter U25	R/W	0 ~ 65535	4803	R/W	0 ~ 65535	
167F	DriveProgramming User Parameter U26	R/W	0 ~ 65535	4804	R/W	0 ~ 65535	
223B	2nd Torque Boost Selection	R/W	00: Manual torque boost 01: Automatic torque boost	6234	R/W	00 (Disabled)/ 01 (Always enabled)/ 02 (Enabled only for forward revolution)/ 03 (Enabled only for reverse revolution)	
223C	2nd Manual Torque Boost Voltage	R/W	0 ~ 200	6235	R/W	0 ~ 200	
223D	2nd Manual Torque Boost Frequency	R/W	0 ~ 500	6236	R/W	0 ~ 500	
223E	2nd Control Method	R/W	(CT) 00: Constant torque characteristics (VC) 01: Reduced torque characteristics (VP 1.7th power (VC at low speed)) 02: Free V/f setting 03: Sensorless vector control (SLV) 04: 0-Hz sensorless vector control 05: Sensor vector control(V2) (VT) 00: Constant torque characteristics (VC) 01: Reduced torque characteristics (VP 1.7th power (VC at low speed)) 02: Free V/f setting 03: Sensorless vector control (SLV)	5605	R/W	00 ([V/f] Fixed torque characteristics (IM))/ 01 ([V/f] Reducing torque characteristics (IM))/ 02 ([V/f] Free V/f (IM))/03 ([V/f] Auto torque boost (IM))/ 04 ([V/f with sensor] Fixed torque characteristics (IM))/ 05 ([V/f with sensor] Reduced torque characteristics (IM))/ 06 ([V/f with sensor] Free V/f (IM))/ 07 ([V/f with sensor] Auto torque boost (IM))/ 08 (Sensorless vector control (IM))/ 09 (Zero-Hz range sensorless vector control (IM)) / 10 (Vector control with sensor (IM)) / 11 (Synchronous start type sensorless vector control (SM/PMM))/ 12 (IVMS start type sensorless vector control (SM/PMM))	
224F	2nd Frequency Upper Limit	R/W	0.00: Disabled (Function not active) 2nd Frequency Lower Limit (A262) to 2nd Maximum Frequency (A204)	59DA	R/W	0 ~ 59000	32=>16
226F	2nd Acceleration Time 2	R/W	1 ~ 360000	56D0	R/W	0 ~ 360000	
230C	2nd Electronic Thermal Level	R/W	200 ~ 1000	5AAA	R/W	(0.0 to 3.0) × Inverter rated current	
230D	2nd Electronic Thermal Characteristics Selection	R/W	00: Reduced torque characteristics 01: Constant torque characteristics 02: Free setting	5AAB	R/W	00 (Reduction characteristics)/ 01 (Constant torque characteristics)/ 02 (Arbitrary setting)	
251A	2nd Motor Parameter L	R/W	1 ~ 65530	621A	R/W	1 ~ 100000000	16=>32
251C	2nd Motor Parameter Io	R/W	1 ~ 65530	621C	R/W	1 ~ 1000000	16=>32
251D	2nd Motor Parameter J	R/W	1 ~ 9999000	621E	R/W	1 ~ 100000000	
252B	2nd Motor Parameter Io (Auto-tuning Data)	R/W	1 ~ 65530	621C	R/W	1 ~ 1000000	16=>32
252C	2nd Motor Parameter J (Auto-tuning Data)	R/W	1 ~ 9999000	621E	R/W	1 ~ 100000000	
253D	2nd PI Proportional Gain	R/W	0 ~ 10000	61C1	R/W	0 ~ 10000	
253E	2nd PI Integral Gain	R/W	0 ~ 10000	61C2	R/W	0 ~ 10000	
253F	2nd P Proportional Gain	R/W	0 ~ 1000	61C3	R/W	0 ~ 10000	

6.6. CiA402 drive profile

The CiA402 drive profile differs between 3G3AX-RX-ECT and 3G3AX-RX2-ECT. When you set parameters, be sure to check the user's manual for your inverter by referring to the parameters in the table below.

Index	Object name	Sub-index	Changed location	3G3AX-RX-ECT	3G3AX-RX2-ECT
10F3 hex	Diagnosis history	Sub-index 5: Flags	Default setting	0001 hex (Enable)	0000 hex (Disable)
	Sets whether the diagnosis history is to be notified in an emergency message.				
6046 hex	vl velocity min max amount	Sub-index 2: vl velocity max amount	Default setting	00000708 hex	*1
6048 hex	vl velocity acceleration	Sub-index 1: Delta speed	Default setting	00000708 hex	*1
		Sub-index 2: Delta time	Default setting	000A hex	30
6049 hex	vl velocity deceleration	Sub-index 1: Delta speed	Default setting	00000708 hex	*1
		Sub-index 2: Delta time	Default setting	000A hex	30
605B hex	Shutdown option code	-	Setting range	1	-1
	Sets the behavior during Shutdown (Operation enable → Ready to switch on).		Default setting	1 (Deceleration stop)	-1 (Follow the setting of AA115: Stop Selection.)
605C hex	Disable operation option code	-	Setting range	1	-1
	Sets the behavior during Disable operation (Operation enable → Switched on).		Default setting	1 (Deceleration stop)	-1 (Follow the setting of AA115: Stop Selection.)
605E hex	Fault reaction option code	-	Setting range	1	-1
	Sets the behavior when an error occurs.		Default setting	1 (Deceleration stop)	-1 (Follow the setting of AA115: Stop Selection.)

*1: The value depends on the 3G3RX2 Inverter in use.

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

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