5.1 Function Codes Overview

Function codes are used for selecting various functions of FRENIC-MEGA.

Function codes comprise 3 digits or 4 digits of alphanumeric character.

The first digit categorizes the group of function code alphabetically and the subsequent 2 or 3 digits identify each code within the group by number.

Function code comprises 14 groups:

Fundamental functions (F codes),

Terminal functions (E codes),

Control codes (C codes),

Motor 1 parameters (P codes),

High-level functions (H codes) (H1 codes),

Motor 2 parameters (A codes),

Motor 3 parameters (b codes),

Motor 4 parameters (r codes),

Application function 1 (J codes) (J1 codes),

Application function 2 (d codes),

Customizable logic (U codes) (U1 codes),

Link functions (y codes),

Keypad functions (K codes),

and Option function (o codes).

The function of each function code is determined according to the data to be set. The following descriptions are for supplementary explanation of function code table. Refer to instruction manual of each option to find the details of the option function (o code).

5.2 Function Code Tables

5.2.1 Supplementary note

■ Change, reflect, and save function code data during operation

Function codes are categorized into those which data change is enabled during operation of the inverter and those which such change is disabled. The meaning of the code in the “Change during operation” column of the function code table is described in the following table.

Symbol	Change during operation	Reflect and save data
Y*	Allowed	At the point when data is changed by ▲/▼ keys, the changed data is immediately reflected on the operation of inverter. However, at this stage, the changed value is not saved to the inverter. In order to save it to the inverter, press FUNC/DATA key. Without saving by FUNC/DATA key and leaving the state of when the change was made by the PRG/RESET key, the data before the change is reflected on the operation of inverter.
Y	Allowed	Even if data is changed by the ▲/▼ key, the changed data will not be reflected on the operation of the inverter as is; by pressing the FUNC/DATA key, the changed value is reflected on the operation of the inverter and is also saved to the inverter.
N	Not possible	-

■ Copying data

Function code data can be copied all at once (programming mode menu number 7 “Data Copy”) with the provided keypad (TP-E2) or multi-function keypad: TP-A2SW (option). By using this function, it is possible to read out all function code data and write the same data to a different inverter.

However, if the specification of inverter at the copy source and copy destination is not identical, some function codes may not be copied due to security reason. According to necessity, configure the settings individually for the function codes that are not copied. The behavior of the function codes regarding data copy is indicated in the “data copy” column in the function code table in the next page and following.

Y: Data is copied.
Y1: When inverter capacity is different, copying will not be performed.
Y2: When voltage group is different, copying will not be performed.
N: Data is not copied.

■ Negative logic setting of data

Digital input terminal and transistor/contact output terminal can become a signal for which negative logic is specified by function code data setting. Negative logic is a function to reverse ON and OFF state of input or output, and switch Active ON (function enabled with ON: positive logic) and Active OFF (function enabled with OFF: negative logic). However, negative logic may not be enabled depending on the function of the signal.

Negative logic signal can be switched by setting the data with 1000 added to the function code data of the function to be set. For example, the following example shows when coast to a stop command “BX” is selected by function code E01.

Function code data	Enable
7	“BX” is ON and coast to a stop (Active ON)
1007	“BX” is OFF and coast to a stop (Active OFF)

■ **Drive control**

The FRENIC-MEGA runs under any of the following control methods. Some function codes apply exclusively to the specific control method.

The enable or disable status is indicated with an icon for each control method within the permissible setting range field in the function code list table.

Icon example: Under V/f control Enable: V/f Disable: V/f

Function code table permissible setting range field	Control target (H18)	Control method (F42)
V/f	Speed (H18 = 0)	V/f control Dynamic torque vector control (F42 = 1) V/f control with slip compensation (F42=2)
PGV/f		V/f control with speed sensor (F42 = 3) Dynamic torque vector control with speed sensor (F42 = 4)
SLV		Sensorless vector control (F42 = 5)
PGV		Vector control with speed sensor (F42 = 6)
PM SLV		Sensorless vector control (synchronous motors) (F42 = 15)
PM PGV		Vector control with sensor (synchronous motors) (F42 = 16)
TRQ	Torque (H18 = 2, 3)	Vector control (F42=5, 6, 16)

For details on the control method, refer to “Function code F42”.

Note The FRENIC-MEGA is a general-purpose inverter whose operation is customized by frequency-basis function codes, like conventional inverters. Under the speed-basis drive control, however, the control target is a motor speed, not a frequency, so convert the frequency to the motor speed according to the following expression.

Conversion formula Motor speed（r/min) = 120 x frequency (Hz)/number of poles

5.2.2 Function Code Tables

The table of function codes to be used in FRENIC-MEGA is shown below.

■ F codes: Fundamental functions

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
F00	Data protection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: No data protection, no digital setting protection 1: With data protection, no digital setting protection 2: No data protection, with digital setting protection 3: With data protection, with digital setting protection	Y	Y	0	5-84
F01	Frequency setting 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Keypad key operation (▲/▼ keys) 1: Analog voltage input (Terminal [12]) (from 0 to ±10 VDC) 2: Analog current input (Terminal [C1] (4 to 20 mA DC) 3: Analog voltage input (Terminal [12]) + analog current input (Terminal [C1]) 5: Analog voltage input (Terminal [V2]) (from 0 to ±10 VDC) 6: Analog voltage input (Terminal [V3]) (from 0 to ±10 VDC) 7: UP/DOWN control 8: Keypad key operation (▲/▼ keys) (with balanceless bumpless) 10: Pattern operation 11: Digital input interface card OPC-DI (option) 12: Pulse train input	N	Y	0	5-85
F02	Operation method	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Keypad operation (Rotation direction input: terminal block) 1: External signal (digital input) 2: Keypad operation (forward rotation) 3: Keypad operation (reverse rotation)	N	Y	2	5-98
F03	Maximum output frequency 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 5.0 to 599.0 Hz	N	Y	60.0	5-100
F04	Base frequency 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 5.0 to 599.0 Hz	N	Y	50.0	5-101
F05	Rated voltage at base frequency 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: AVR disable (output voltage proportional to power voltage) 80 to 240 V: AVR operation (200V series) 160 to 500 V: AVR operation (400 V series)	N	Y2	200/400	
F06	Maximum output voltage 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 80 to 240 V: AVR operation (200V series) 160 to 500 V: AVR operation (400 V series)	N	Y2		
F07	Acceleration time 1	V/f PGV/f PGV SLV PM SLV PM PGV TRQ	Y	Y	*10	5-103
F08	Deceleration time 1	0.00 to 6000 s * 0.00 is for acceleration and deceleration time cancel (when performing soft-start and stop externally)	Y	Y	*10	
F09	Torque boost 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 20.0% (% value against base frequency voltage 1)	Y	Y	*2	5-106
F10	Electronic thermal overload protection for motor 1 (Select motor characteristics)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1: Enable (for a general-purpose motor with self-cooling fan) 2: Enable (for an inverter-driven motor with separately powered cooling fan)	Y	Y	1	5-106
F11	(Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 A (disable), current value of 1 to 135% of inverter rated current set with A unit (Inverter rated current dependent on F80)	Y	Y1 Y2	*3	
F12	(Thermal time constant)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.5 to 75.0 min	Y	Y	*11	
F14	Restart mode after momentary power failure (operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Trip immediately 1: Trip after a recovery from power failure 2: Trip after momentary deceleration is stopped 3: Continue to run (for heavy inertia load or general load) 4: Restart from frequency at power failure (for general load) 5: Restart from starting frequency	Y	Y	1	5-110
F15	Frequency limiter (upper limit)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 599.0 Hz	Y	Y	70.0	5-119
F16	(Lower limit)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 599.0 Hz	Y	Y	0.0	
F18	Bias (for frequency setting 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -100.00 to 100.00%	Y*	Y	0.00	5-120

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
F20	DC braking 1 (starting frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0 Hz	Y	Y	0.0	5-120
F21	(Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 100% (HHD specification), 0 to 80% (HND specification),	Y	Y	0	
F22	(Braking time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 (disable): 0.01 to 30.00 s	Y	Y	0.00	
F23	Starting frequency 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0 Hz If F42 = 5 or 15, 1.0 Hz is automatically set.	Y	Y	0.5	5-123
F24	(Holding time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 10.00 s	Y	Y	0.00	
F25	Stop frequency	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0 Hz	Y	Y	0.2	
F26	Motor sound (Carrier frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.75 to 16 kHz (HHD specification: 0.4 to 55kW, HND specification: 5.5 to 18.5 kW) 0.75 to 10 kHz (HHD specification: 75 to 630 kW, HND specification: 22 to 55 kW) 0.75 to 6 kHz (HND specification: 75 to 630 kW)	Y	Y	2	5-127
F27	(Tone)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Level 0 (disable) 1: Level 1 2: Level 2 3: Level 3	Y	Y	0	

*2: Factory defaults are depended on motor capacity. Refer to Table 5.2-1 Factory default settings by inverter capacity.
*3: The motor rated current is automatically set. Refer to Table 5.2-2 Motor constants (function code P03).

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
F29	Terminal [FM1] (Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Voltage output (0 to +10 VDC) 1: Current output (4 to 20 mA DC) 2: Current output (0 to 20 mA DC) 4: Voltage output (0 to +10 VDC)	Y	Y	0	5-128
F30	(Output gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 300%	Y*	Y	100	
F31	(Function selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Output frequency 1 (before slip compensation) 1: Output frequency 2 (after slip compensation) 2: Output current 3: Output voltage when alarm occurred 4: Output torque 5: Load factor 6: Power consumption 7: PID feedback value 8: Actual speed/estimated speed 9: DC link bus voltage 10: Universal AO 11: Analog output test (-) 13: Motor output 14: Calibration (+) 15: PID command (SV) 16: PID output (MV) 17: Master-follower angle deviation 18: Inverter cooling fin temperature 21: PG feedback value 22: Torque current command 23: PID deviation 24: Line speed command 25: Winding diameter calculation value 26: Setting frequency (before acceleration/deceleration calculation) 111 to 124: Customizable logic output signal 1 to 14	Y	Y	0	
F32	Terminal [FM2] (Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Voltage output (0 to +10 VDC) 1: Current output (4 to 20 mA DC) 2: Current output (0 to 20 mA DC) 4: Voltage output (0 to +10 VDC)	Y	Y	0	-
F33	Terminal [FMP] (Pulse rate)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 25 to 6000 p/s (number of pulse at 100%)	Y*	Y	1440	5-128
F34	(Output gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0,1 to 300% 0: Pulse output 1 to 300%	Y*	Y	0	-
F35	(Function selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Output frequency 1 (before slip compensation) 1: Output frequency 2 (after slip compensation) 2: Output current 3: Output voltage when alarm occurred 4: Output torque 5: Load factor 6: Power consumption 7: PID feedback value 8: Actual speed/estimated speed 9: DC link bus voltage 10: Universal AO 11: Analog output test (-) 13: Motor output 14: Calibration (+) 15: PID command (SV) 16: PID output (MV) 17: Master-follower angle deviation 18: Inverter cooling fin temperature 21: PG feedback value 22: Torque current command 23: PID deviation 24: Line speed command 25: Winding diameter calculation value 26: Setting frequency (before acceleration/deceleration calculation) 111 to 124 Customizable logic output signal 1 to 14	Y	Y	0	-
F37	Load selection/ Auto torque boost/ Auto energy-saving operation 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Quadratic-torque load 1: Constant torque load 2: Auto torque boost 3: Auto energy-saving operation (quadratic-torque load) 4: Auto energy-saving operation (constant torque load) 5: Auto energy-saving operation with auto torque boost	N	Y	1	5-134
F38	Stop frequency (detection mode)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Speed detection value / estimated speed 1: Reference speed	N	Y	0	5-136
F39	(Holding time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 10.00 s	Y	Y	0.00	
F40	Torque limiter 1-1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -300 to 0 to 300% ; 999 (Disable)	Y	Y	999	5-137
F41	Torque limiter 1-2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -300 to 0 to 300% ; 999 (Disable)	Y	Y	999	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
F42	Drive control selection 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: V/f control without slip compensation 1: Dynamic torque vector control 2: V/f control with slip compensation 3: V/f control with speed sensor 4: Dynamic torque vector control with sensor 5: Sensorless vector control 6: Vector control with speed sensor 15: Sensorless vector control (synchronous motors) 16: Vector control with sensor (synchronous motors)	N	Y	0	5-145
F43	Current limiter(mode selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Enable at constant speed (disable during ACC/DEC) 2: Enable during ACC/constant speed operation (disable during DEC)	Y	Y	2	5-150
F44	(Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 20 to 200% (rated current of the inverter for 100%)	Y	Y	*12	
F50	Electronic thermal overload (for braking resistor protection) (discharging capacity)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 (If using built-in breaking resistor) 1 to 9000 kWs OFF (cancel)	Y	Y1 Y2	*13	5-152
F51	(Permissible average loss)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.001 to 99.99 kW	Y	Y1 Y2	0.001	
F52	(Braking resistance value)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.01 to 999 Ω	Y	Y1 Y2	0.01	
F58	Terminal [FM1] (Filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 5.00 s	Y	Y	0.00	
F59	Terminal [FM1] (Bias)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -100.0 to 100.0%	Y*	Y	0.0	
F60	Terminal [FM2] (Output gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 300%	Y*	Y	100	
F61	Terminal [FM2] (Function selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Output frequency 1 (before slip compensation) 1: Output frequency 2 (after slip compensation) 2: Output current 3: Output voltage when alarm occurred 4: Output torque 5: Load factor 6: Power consumption 7: PID feedback value 8: Actual speed/estimated speed 9: DC link bus voltage 10: Universal AO 11: Analog output test (-) 13: Motor output 14: Calibration (+) 15: PID command (SV) 16: PID output (MV) 17: Master-follower angle deviation 18: Inverter heat sink temperature 21: PG feedback value 22: Torque current command 23: PID deviation 24: Line speed command 25: Winding diameter calculation value 26: Setting frequency (before acceleration/deceleration calculation) 111 to 124 Customizable logic output signal 1 to 14	Y	Y	2	
F62	(Filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 5.00 s	Y	Y	0.00	
F63	(Bias)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -100.0 to 100.0%	Y*	Y	0.0	
F64	Terminal [FMP] (Filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 5.00 s	Y	Y	0.00	
F80	HHD/HND switching	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: HHD specification 1: HND specification	N	Y	0	5-154

*10 6.00 s for 22 kW or lower inverters, 20.00 s for 30 kW or higher inverters

*11 5.0 min for 22 kW or lower inverters, 10.0 min for 30 kW or higher inverters

*12 180% for 15 kW or lower inverters, 160% for 22 kW or higher inverters

*13 0 for 7.5 kW or lower inverters, OFF for 11 kW or higher inverters

■ E codes: Extension Terminal Functions (terminal functions)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
E01	Terminal [X1] (Function selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 (1000): Multistep frequency selection (0 to 1 steps) "SS1"	N	Y	0	5-155
E02	Terminal [X2]	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 (1001): Select multistep frequency (0 to 3 steps) "SS2"	N	Y	1	
E03	Terminal [X3]	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 2 (1002): Select multistep frequency (0 to 7 steps) "SS4"	N	Y	2	
E04	Terminal [X4]	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 3 (1003): Select multistep frequency (0 to 15 steps) "SS8"	N	Y	3	
E05	Terminal [X5]	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 4 (1004): Select ACC/DEC time (2 steps) "RT1"	N	Y	4	
E06	Terminal [X6]	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 5 (1005): Select ACC/DEC time (4 steps) "RT2"	N	Y	5	
E07	Terminal [X7]	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 6 (1006): Select 3-wire operation "HLD"	N	Y	6	
E08	Terminal [X8]	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 7 (1007): Coast to a stop command "BX"	N	Y	7	
E09	Terminal [X9]	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 8 (1008): Reset alarm (Abnormal) "RST"	N	Y	8	
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 9 (1009): External alarm (9 = Active OFF/1009 = Active ON) "THR"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 10 (1010): Ready for jogging "JOG"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 11 (1011): Select frequency setting 2/ frequency setting 1 "Hz2/ Hz1"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 12 (1012): Select motor 2 "M2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 13: DC braking command "DCBRK" PMSLV is valid only when P30 = 0				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 14 (1014): Select torque limit 2/ torque limit 1 "TL2/ TL1"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 15: Switch to commercial power (50 Hz) "SW50"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 16: Switch to commercial power (60 Hz) "SW60"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 17 (1017): UP command "UP"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 18 (1018): DOWN command "DOWN"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 19 (1019): Allow function code editing (data change enabled) "WE-KP"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 20 (1020): Cancel PID control "Hz/PID"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 21 (1021): Switch normal/ inverse operation "IVS"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 22 (1022): Interlock "IL"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 23 (1023): Cancel torque control "Hz/TRQ"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 24 (1024): Select link operation (RS-485, BUS option) "LE"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 25 (1025): Universal DI "U-DI"Universal DI				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 26 (1026): Select auto search for idling motor speed at starting "STM"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 30 (1030): Force to stop (30 = Active OFF/1030 = Active ON) "STOP"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 32 (1032): Pre-excite "EXITE"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 33 (1033): Reset PID integral and differential terms "PID-RST"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 34 (1034): Hold PID integral term "PID-HLD"				

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 35 (1035): Local (keypad) command selection "LOC"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 36 (1036): Select motor 3 "M3"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 37 (1037): Select motor 4 "M4"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 39: Condensation prevention "DWP"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 40: Switch to commercial power built-in sequence (50 Hz) "ISW50"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 41: Switch to commercial power built-in sequence (60 Hz) "ISW60"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 42 (1042): Activate the limit switch at start point "LS"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 46 (1046): Overload stop enable command "OLS"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 47 (1047): Servo lock command "LOCK"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 48: Pulse train input "PIN" * Terminal [X7] only (E06, E07)				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 49 (1049): Pulse train sign terminal "SIGN" * Other than terminal [X6] and [X7] (E01 to E05, E08, E09)				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 58(1058) :UP/DOWN frequency clear "STZ"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 59 (1059): Battery operation selection "BATRY"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 60 (1060): Select torque bias 1 "TB1"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 61 (1061): Select torque bias 2 "TB2"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 62 (1062): Hold torque bias "H-TB"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 65 (1065): Check brake "BRKE"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 70 (1070): Cancel line speed control "Hz/LSC"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 71 (1071): Hold line speed control frequency in the memory "LSC-HLD"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 72 (1072): Count the run time of commercial power-driven motor 1 "CRUN-M1"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 73 (1073): Count the run time of commercial power-driven motor 2 "CRUN-M2"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 74 (1074): Count the run time of commercial power-driven motor 3 "CRUN-M3"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 75 (1075): Count the run time of commercial power-driven motor 4 "CRUN-M4"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 76 (1076): Select droop control "DROOP"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 77 (1077): Speed deviation error cancel "PG-CCL"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 78 (1078): Speed control parameter selection 1 "MPRM1"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 79 (1079): Speed control parameter selection 2 "MPRM2"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 80 (1080): Cancel customizable logic "CLC"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 81 (1081): Clear all customizable logic timers "CLTC"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 82 (1082): Anti-regenerative control cancel "AR-CCL"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 83 (1083): PG input switching "PG-SEL"				

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 84 (1084): Acceleration/deceleration cancel (bypass) "BPS"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 94: Forward rotation JOG "FJOG"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 95: Reverse rotation JOG "RJOG"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 97 (1097): Direction command "DIR"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 100: No assignment "NONE"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 105 (1105): Light load automatic double speed judgment permission "LAC-ENB"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 110 (1110): Servo lock gain selection "LSG2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 111 (1111): Forced stop (terminal block only) (111 = Active OFF/1111 = Active ON) "STOP-T"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 116 (1116): AVR cancel "AVR-CCL"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 119 (1119): Speed regulator P selection "P-SEL"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 121 (1121) to 129(1129): Customizable logic input 1 to 9 "CLI1" to "CLI9"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 134 (1134): Forced operation command "FMS"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 135 (1135): Travel/absolute position switching "INC/ABS"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 136 (1136): Orientation command "ORT"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 137 (1137): Position control/speed control switching "POS/Hz"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 138 (1138): Homing command "ORG"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 139 (1139): + direction overtravel "+OT"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 140 (1140): - direction overtravel "-OT"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 141 (1141): Position clear command "P-CLR"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 142 (1142): Position preset command "P-PRESET"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 143 (1143): Teaching command "TEACH"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 144 (1144): Positioning data change command "POS-SET"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 145 (1145): Positioning data selection 1 "POS-SEL1"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 146 (1146): Positioning data selection 2 "POS-SEL2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 147 (1147): Positioning data selection 4 "POS-SEL4"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 169 (1169): Initial diameter set command "D-SET"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 170 (1170): Winding diameter calculation hold command "D-HLD"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 171 (1171): PID control multistage command 1 "PID-SS1"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 172 (1172): PID control multistage command 2 "PID-SS2"				
		* Inside the ( ) is the negative logic signal (OFF at short-circuit).				
E10	Acceleration time 2	V/f PGV/f SLV PGV PMSLV PMPGV TRQ	Y	Y	*1	5-180
E11	Deceleration time 2	0.00 to 6000 s	Y	Y	*1	
E12	Acceleration time 3	* 0.00 is for acceleration and deceleration time cancel (when performing soft-start and stop externally)	Y	Y	*1	
E13	Deceleration time 3		Y	Y	*1	
E14	Acceleration time 4		Y	Y	*1	
E15	Deceleration time 4		Y	Y	*1	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
E16	Torque limiter 2-1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -300 to 0 to 300%; 999 (Disable)	Y	Y	999	5-180
E17	Torque limiter 2-2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -300 to 0 to 300%; 999 (Disable)	Y	Y	999	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
E20	Terminal [Y1] (Function selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 (1000): Inverter running	N	Y	0	5-180
E21	Terminal [Y2]	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1 (1001): Frequency (speed) arrival "FAR"	N	Y	1	
E22	Terminal [Y3]	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 2 (1002): Frequency (speed) detected "FDT"	N	Y	2	
E23	Terminal [Y4]	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 3 (1003): Under voltage detected (inverter stopped) "LU"	N	Y	7	
E24	Terminal [Y5A/C] (Ry output)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 4 (1004): Detected torque polarity "B/D"	N	Y	15	
E27	Terminal [30A/B/C] function (Relay output)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 5 (1005): Inverter output limiting "IOL"	N	Y	99	
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 6 (1006): Auto-restarting after momentary power failure "IPF"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 7 (1007): Motor overload early warning "OL"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 8 (1008): Keypad operation "KP"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 10 (1010): Inverter ready to run "RDY"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 11: Commercial/inverter power supply switching "SW88"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 12: Commercial/inverter power supply switching "SW52-2"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 13: Commercial/inverter power supply switching "SW52-1"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 15 (1015): Switch MC on the input power lines "AX"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 16 (1016): Pattern operation stage transition "TU"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 17 (1017): Pattern operation cycle completed "TO"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 18 (1018): Pattern operation stage 1 "STG1"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 19 (1019): Pattern operation stage 2 "STG2"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 20 (1020): Pattern operation stage 4 "STG4"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 21 (1021): Frequency (speed) arrival 2 "FAR2"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 22 (1022): Inverter output limiting with delay "IOL2"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 25 (1025): Cooling fan in operation "FAN"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 26 (1026): Auto-resetting "TRY"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 27 (1027): Universal DO "U-DO"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 28 (1028): Heat sink overheat early warning "OH"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 29 (1029): Master-follower operation complete "SY"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 30 (1030): Lifetime alarm "LIFE"				

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 31 (1031): Frequency (speed) detected 2 "FDT2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 33 (1033): Reference loss detected "REF OFF"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 35 (1035): Inverter outputting "RUN 2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 36 (1036): Overload prevention controlling "OLP"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 37 (1037): Current detected "ID"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 38 (1038): Current detected 2 "ID2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 39 (1039): Current detected 3 "ID3"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 41 (1041): Low current detected "IDL"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 42 (1042): PID alarm "PID-ALM"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 43 (1043): Under PID control "PID-CTL"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 44 (1044): Under sleep mode of PID control "PID-STP"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 45 (1045): Low torque detected "U-TL"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 46 (1046): Torque detected 1 "TD1"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 47 (1047): Torque detected 2 "TD2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 48 (1048): Motor 1 selected "SWM1"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 49 (1049): Motor 2 selected "SWM2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 50 (1050): Motor 3 selected "SWM3"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 51 (1051): Motor 4 selected "SWM4"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 52 (1052): Forward rotation "FRUN"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 53 (1053): Reverse rotation "RRUN"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 54 (1054): Under remote mode "RMT"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 56 (1056): Motor overheat detected by thermistor "THM"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 57 (1057): Mechanical brake control "BRKS"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 58 (1058): Frequency (speed) detected 3 "FDT3"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 59 (1059): Current input wire break detection (terminal [C1] and [C2]) "C1OFF"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 70 (1070): Speed valid "DNZS"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 71 (1071): Speed agreement "DSAG"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 72 (1072): Frequency (speed) arrival 3 "FAR3"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 76 (1076): Speed mismatch "PG-ERR"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 77 (1077): Low DC link bus voltage detection "U-EDC"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 79 (1079): During decelerating at momentary power failure "IPF2"				

*1 6.00 s for 22 kW or lower inverters, 20.00 s for 30 kW or higher inverters

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 82 (1082): Positioning complete "PSET"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 84 (1084): Maintenance timer counted up "MNT"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 87 (1087): Frequency arrival and detected "FARFDT"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 89 (1089): Magnetic pole position detection complete signal "PTD"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 90 (1090): Alarm content 1 "AL1"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 91 (1091): Alarm content 2 "AL2"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 92 (1092): Alarm content 4 "AL4"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 93 (1093): Alarm content 8 "AL8"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 95 (1095): Forced operation "FMRUN"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 98 (1098): Light alarm "L-ALM"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 99 (1099): Alarm output "ALM"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 101 (1101): EN circuit failure detected "DECF"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 102 (1102): EN terminal input OFF "ENOFF"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 105 (1105): Braking transistor broken "DBAL"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 111 (1111) to 124(1124): Customizable logic output signal 1 to 14 "CLO1" to "CLO14"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 125 (1125): Integral power pulse output "POUT"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 131 (1131): Speed limiting "S-LIM"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 132 (1132): Torque limit level "T-LIM"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 133 (1133): Low current detection "IDL2"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 135 (1135): Dancer upper limit position warning signal "D-UPFL"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 136 (1136): Dancer lower limit position warning signal "D-DNFL"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 137 (1137): Dancer position limit warning signal "D-FL"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 151 (1151): Overtravel detection "OT-OUT"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 152 (1152): Forced stop detection "STOP-OUT"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 153 (1153): Pass point detection 1 "PPAS1"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 154 (1154): Pass point detection 2 "PPAS2"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 158 (1158): Overload detected "LLIM"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 159 (1159): Performing light load automatic double speed operation "LAC"				
		V/f PGV/f SLV PGV PM SLV PM PGV TRQ 251(1251): M/Shift key ON/OFF status "MTGL"				
		* Inside the ( ) is the negative logic signal (OFF at short-circuit).				
E29	Frequency arrival delay timer (FAR2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.01 to 10.00 s	Y	Y	0.10	5-194
E30	Frequency arrival detection width (Detection width)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 10.0 Hz	Y	Y	2.5	
E31	Frequency detection 1 (operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 599.0 Hz	Y	Y	60.0	5-196

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
E32	(Hysteresis width)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 599.0 Hz	Y	Y	1.0	
E34	Overload early warning/Current detection (Level)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 (Disable), 1 to 200% of inverter rated current (Inverter rated current dependent on F80)	Y	Y1 Y2	*3	5-196
E35	(Timer)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.01 to 600.00 s	Y	Y	10.00	
E36	Frequency detection 2 (Level)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 599.0 (Hz)	Y	Y	60.0	5-198
E37	Current detection 2/Low current detection (Level)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 (Disable), 1 to 200% of inverter rated current (Inverter rated current dependent on F80)	Y	Y1 Y2	*3	5-198
E38	(Timer)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.01 to 600.00 s	Y	Y	10.00	
E39	Constant rate of feeding coefficient 1/ Speed display auxiliary coefficient 1	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.000 to 9.999	Y	Y	1.000	5-198
E42	LED display filter	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 5.0 s	Y	Y	0.5	5-199
E43	LED monitor (display selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Speed monitor (Selectable with E48) 3: Output current 4: Output voltage when alarm occurred 8: Calculated motor output torque when alarm occurred 9: Power consumption 10: PID process command 12: PID feedback value 13: Timer value 14: PID output 15: Load factor 16: Motor output 17: Analog signal input monitor 21: Current position 22: Positioning deviation 23: Torque current (%) 24: Magnetic flux command(%) 25: Input watt-hour 26: Winding diameter 27: Position control start position 28: Stop target position 29: PID deviation 30: Torque bias 31: Estimated inertia acceleration/deceleration time conversion value (coming soon) 32: Customizable logic output	Y	Y	0	5-199
E44	(Display when stopped)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Specified value 1: Output value	Y	Y	0	5-201
E48	LED monitor details (Speed monitor selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Output frequency 1 (before slip compensation) 1: Output frequency 2 (after slip compensation) 2: Set frequency 3: Motor speed 4: Feed speed 5: Line speed 6: Constant feeding rate time 7: Speed (%) 8: Reference line speed 9: Line speed output value	Y	Y	0	5-201
E49	Torque Command Monitor (Polarity selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Torque polarity 1: Plus for driving, Minus for braking	Y	Y	1	5-202
E50	Display coefficient for speed monitor	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.01 to 600.00	Y	Y	30.00	5-204
E51	Display coefficient for “Input watt-hour data”	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.000 (Cancel/Reset), 0.001 to 9999	Y	Y	0.010	5-204

*3: The motor rated current is automatically set. Refer to Table 5.2-2 Motor constants (function code P03).

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
E52	Keypad menu selection	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Function code data setting mode (Menu 0, Menu 1, and Menu 7) 1: Function code data check mode (Menu 2 and Menu 7) 2: Full-menu mode	Y	Y	2	5-205
E54	Frequency detection 3 (Level)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 599.0 Hz	Y	Y	60.0	5-205
E55	Current detection 3 (Level)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 (Disable), 1 to 200% of inverter rated current (Inverter rated current dependent on F80)	Y	Y1 Y2	*3	5-205
E56	(Timer)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.01 to 600.00 s	Y	Y	10.00	
E57	Integral power pulse output unit	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Pulse output every 0.1 kWh 1: Pulse output every 1 kWh 2: Pulse output every 10 kWh 3: Pulse output every 100 kWh 4: Pulse output every 1000 kWh	Y	Y	1	
E61	Terminal [12] extended function	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: No extension function assignment 1: Auxiliary frequency setting 1 2: Auxiliary frequency setting 2 3: PID command 1 5: PID Dfeedback value 6: Ratio setting 7: Analog torque limiter A 8: Analog torque limit value B 9: Torque bias 10: Torque command 11: Torque current command 12: Acceleration/deceleration time ratio setting 13: Upper limit frequency 14: Lower limit frequency 15: Auxiliary frequency setting 3 16: Auxiliary frequency setting 4 17: Speed limit for forward rotation (FWD) 18: Speed limit for reverse rotation (REV) 20: Analog signal input monitor	N	Y	0	5-206
E62	Terminal [C1] (C1 function) (Extension function selection)		N	Y	0	
E63	Terminal [V2] (C1 extended function)		N	Y	0	
E64	Saving of digital reference frequency	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Auto saving (main power is turned off) 1: Save by turning FUNC/DATA key ON	Y	Y	0	5-208
E65	Reference loss detection (Continuous running frequency)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Stop deceleration 20 to 120%, 999: Cancel	Y	Y	999	5-209
E66	Terminal [C1] (V3 function) (Extension function selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: No extension function assignment 1: Auxiliary frequency setting 1 2: Auxiliary frequency setting 2 3: PID command 1 5: PID feedback value 6: Ratio setting 7: Analog torque limiter A 8: Analog torque limit value B 9: Torque bias 10: Torque command 11: Torque current command 12: Acceleration/deceleration time ratio setting 13: Upper limit frequency 14: Lower limit frequency 15: Auxiliary frequency setting 3 16: Auxiliary frequency setting 4 17: Speed limit for forward rotation (FWD) 18: Speed limit for reverse rotation (REV) 20: Analog signal input monitor	N	Y	0	
E70	M/Shift key (Function selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 (1000): Multistep frequency selection (0 to 1 steps) "SS1" 1 (1001): Select multistep frequency (0 to 3 steps) "SS2" 2 (1002): Select multistep frequency (0 to 7 steps) "SS4" 3 (1003): Select multistep frequency (0 to 15 steps) "SS8" 4 (1004): Select ACC/DEC time (2 steps) "RT1" 5 (1005): Select ACC/DEC time (4 steps) "RT2"	N	Y	100	

6 (1006): Select 3-wire operation "HLD"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
7 (1007): Coast to a stop command "BX"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
10 (1010): Ready for jogging "JOG"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
11 (1011): Select frequency setting 2/ frequency setting 1 "Hz2/ Hz1"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
12 (1012): Select motor 2 "M2"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
13: DC braking command "DCBRK"
PMSLV is valid only when P30 = 0

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
14 (1014): Select torque limit 2/ torque limit 1 "TL2/ TL1"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
19 (1019): Allow function code editing (data change enabled) "WE-KP"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
20 (1020): Cancel PID control "Hz/PID"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
21 (1021): Switch normal/ inverse operation "IVS"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
23 (1023): Cancel torque control "Hz/TRQ"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
24 (1024): Select link operation (RS-485, BUS option) "LE"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
26 (1026): Select auto search for idling motor speed at starting "STM"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
30 (1030): Force to stop "STOP"
(30 = Active OFF/1030 = Active ON)

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
32 (1032): Pre-excite "EXITE"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
33 (1033): Reset PID integral and differential terms "PID-RST"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
34 (1034): Hold PID integral term "PID-HLD"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
35 (1035): Local (keypad) command selection "LOC"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
36 (1036): Select motor 3 "M3"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
37 (1037): Select motor 4 "M4"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
39: Condensation prevention "DWP"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
40: Switch to commercial power built-in sequence (50 Hz) "ISW50"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
41: Switch to commercial power built-in sequence (60 Hz) "ISW60"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
46 (1046): Overload stop enable command "OLS"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
47 (1047): Servo lock command "LOCK"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
59 (1059): Battery operation selection "BATRY"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
60 (1060): Select torque bias 1 "TB1"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
61 (1061): Select torque bias 2 "TB2"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
62 (1062): Hold torque bias "H-TB"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
65 (1065): Check brake "BRKE"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
70 (1070): Cancel line speed control "Hz/LSC"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
71 (1071): Hold line speed control frequency in the memory "LSC-HLD"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
72 (1072): Input during operation with commercial power supply (motor 1)
"CRUN-M1"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ
73 (1073): Input during operation with commercial power supply (motor 2)
"CRUN-M2"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

74 (1074): Count the run time of commercial power-driven motor 3 "CRUN-M3"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

75 (1075): Count the run time of commercial power-driven motor 4 "CRUN-M4"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

76 (1076): Select droop control "DROOP"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

77 (1077): Speed deviation error cancel "PG-CCL"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

78 (1078): Speed control parameter selection 1 "MPRM1"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

79 (1079): Speed control parameter selection 2 "MPRM2"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

80 (1080): Cancel customizable logic "CLC"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

81 (1081): Clear all customizable logic timers "CLTC"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

82 (1082): Anti-regenerative control cancel "AR-CCL"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

83 (1083): PG input switching "PG-SEL"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

84 (1084): Acceleration/deceleration cancel (bypass) "BPS"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

94: Forward rotation JOG "FJOG"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

95: Reverse rotation JOG "RJOG"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

97 (1097): Direction command "DIR"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

100: No assignment "NONE"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

105 (1105): Light load automatic double speed judgment permission "LAC-ENB"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

110 (1110): Servo lock gain selection "LSG2"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

116 (1116): AVR cancel "AVR-CCL"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

119 (1119): Speed regulator P selection "P-SEL"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

121 (1121) to 129(1129): Customizable logic input 1 to 9 "CLI1" to "CLI9"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

134 (1134): Forced operation command "FMS"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

135 (1135): Travel/absolute position switching "INC/ABS"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

136 (1136): Orientation command "ORT"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

137 (1137): Position control/speed control switching "POS/Hz"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

138 (1138): Homing command "ORG"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

141 (1141): Position clear command "P-CLR"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

142 (1142): Position preset command "P-PRESET"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

143 (1143): Teaching command "TEACH"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

144 (1144): Positioning data change command "POS-SET"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

145 (1145): Positioning data selection 1 "POS-SEL1"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

146 (1146): Positioning data selection 2 "POS-SEL2"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

147 (1147): Positioning data selection 4 "POS-SEL4"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

169 (1169): Initial diameter set command "D-SET"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

170 (1170): Winding diameter calculation hold command "D-HLD"

V/f PGV/f SLV PGV PMSLV PMPGV TRQ

		171 (1171): PID control multistage command 1 “PID-SS1” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 172 (1172): PID control multistage command 2 “PID-SS2” * Inside the ( ) is the negative logic signal (OFF at short-circuit).				
E71	M-LED indicator (Function selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 (1000): Inverter running “RUN” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 (1001): Frequency (speed) arrival “FAR” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 2 (1002): Frequency (speed) detected “FDT” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 3 (1003): Under voltage detected (inverter stopped) “LU” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 4 (1004): Detected torque polarity “B/D” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 5 (1005): Inverter output limiting “IOL” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 6 (1006): Auto-restarting after momentary power failure “IPF” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 7 (1007): Motor overload early warning “OL” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 8 (1008): Keypad operation “KP” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 10 (1010): Inverter ready to run “RDY” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 16 (1016): Pattern operation stage transition “TU” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 17 (1017): Pattern operation cycle completed “TO” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 18 (1018): Pattern operation stage 1 “STG1” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 19 (1019): Pattern operation stage 2 “STG2” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 20 (1020): Pattern operation stage 4 “STG4” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 21 (1021): Frequency (speed) arrival 2 “FAR2” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 22 (1022): Inverter output limiting with delay “IOL2” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 25 (1025): Cooling fan in operation “FAN” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 26 (1026): Auto-resetting “TRY” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 28 (1028): Heat sink overheat early warning “OH” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 29 (1029): Master-follower operation complete “SY” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 30 (1030): Lifetime alarm “LIFE” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 31 (1031): Frequency (speed) detected 2 “FDT2” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 33 (1033): Reference loss detected “REF OFF” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 35 (1035): Inverter outputting “RUN 2” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 36 (1036): Overload prevention controlling “OLP” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 37 (1037): Current detected “ID” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 38 (1038): Current detected 2 “ID2” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 39 (1039): Current detected 3 “ID3” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 41 (1041): Low current detected “IDL” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 42 (1042): PID alarm “PID-ALM” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 43 (1043): Under PID control “PID-CTL” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 44 (1044): Under sleep mode of PID control “PID-STP” V/f PGV/f SLV PGV PMSLV PMPGV TRQ 45 (1045): Low torque detected “U-TL”	N	Y	100	

V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
46 (1046): Torque detected 1	“TD1”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
47 (1047): Torque detected 2	“TD2”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
48 (1048): Motor 1 selected	“SWM1”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
49 (1049): Motor 2 selected	“SWM2”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
50 (1050): Motor 3 selected	“SWM3”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
51 (1051): Motor 4 selected	“SWM4”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
52 (1052): Forward rotation	“FRUN”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
53 (1053): Reverse rotation	“RRUN”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
54 (1054): Under remote mode	“RMT”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
56 (1056): Motor overheat detected by thermistor	“THM”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
57 (1057): Mechanical brake control	“BRKS”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
58 (1058): Frequency (speed) detected 3	“FDT3”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
59 (1059): Current input wire break detection (terminal [C1] and [C2])	“C1OFF”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
70 (1070): Speed valid	“DNZS”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
71 (1071): Speed agreement	“DSAG”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
72 (1072): Frequency (speed) arrival 3	“FAR3”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
76 (1076): Speed mismatch error detection	“PG-ERR”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
77 (1077): Low DC link bus voltage detection	“U-EDC”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
79 (1079): During decelerating at momentary power failure	“IPF2”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
82 (1082): Positioning complete	“PSET”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
84 (1084): Maintenance timer counted up	“MNT”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
87 (1087): Frequency arrival and detected	“FARFDT”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
89 (1089): Magnetic pole position detection complete signal	“PTD”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
95 (1095): Forced operation	“FMRUN”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
98 (1098): Light alarm	“L-ALM”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
99 (1099): Alarm output	“ALM”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
100: No assignment	“NONE”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
101 (1101): EN circuit failure detected	“DECF”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
102 (1102): EN terminal input OFF	“ENOFF”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
105 (1105): Braking transistor broken	“DBAL”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
111 (1111) to 124(1124): Customizable logic output signal 1 to 14	“CLO1” to “CLO14”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
131 (1131): Speed limiting	“S-LIM”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
132 to 1132: Torque limit level	“T-LIM”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
133 (1133): Low current detection	“IDL2”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	
135 (1135): Dancer upper limit position warning signal	“D-UPFL”
V/f PGV/f SLV PGV PMSLV PMPGV TRQ	

		136 (1136): Dancer lower limit position warning signal "D-DNFL" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 137 (1137): Dancer position limit warning signal "D-FL" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 151 (1151): Overtravel detection "OT-OUT" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 152 (1152): Forced stop detection "STOP-OUT" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 153 (1153): Pass point detection 1 "PPAS1" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 154 (1154): Pass point detection 2 "PPAS2" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 158 (1158): Overload detection "LLIM" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 159 (1159): Performing light load automatic double speed operation "LAC" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 251 (1251): M/Shift key ON/OFF status "MTGL" * Inside the ( ) is the negative logic signal (OFF at short-circuit).				
E76	DC link bus low-voltage detection level	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 200 to 400 V (200V series) 400 to 800 V (400V series)	Y	Y2	235 470	5-210
E78	Torque detection 1 (Level)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 300%	Y	Y	100	5-211
E79	(Timer)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.01 to 600.00 s	Y	Y	10.00	
E80	Torque detection 2/ □ low torque detection (Level)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 300%	Y	Y	20	
E81	(Timer)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.01 to 600.00 s	Y	Y	20.00	
E98	Terminal [FWD] function	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 (1000): Select multistep frequency (0 to 1 steps) "SS1"	N	Y	98	5-211
E99	Terminal [REV] function	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 (1001): Select multistep frequency (0 to 3 steps) "SS2" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 2 (1002): Select multistep frequency (0 to 7 steps) "SS4" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 3 (1003): Select multistep frequency (0 to 15 steps) "SS8" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 4 (1004): Select ACC/DEC time (2 steps) "RT1" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 5 (1005): Select ACC/DEC time (4 steps) "RT2" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 6 (1006): Select 3-wire operation "HLD" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 7 (1007): Coast to a stop command "BX" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 8 (1008): Reset alarm (Abnormal) "RST" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 9 (1009): External alarm "THR" (9 = Active OFF/1009 = Active ON) V/f PGV/f SLV PGV PMSLV PMPGV TRQ 10 (1010): Ready for jogging "JOG" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 11 (1011): Select frequency setting 2/ frequency setting 1 "Hz2/ Hz1" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 12 (1012): Select motor 2 "M2" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 13: DC braking command "DCBRK" PMSLV is valid only when P30 = 0 V/f PGV/f SLV PGV PMSLV PMPGV TRQ 14 (1014): Select torque limit 2/ torque limit 1 "TL2/ TL1" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 15: Switch to commercial power (50 Hz) "SW50" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 16: Switch to commercial power (60 Hz) "SW60" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 17 (1017): UP command "UP" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 18 (1018): DOWN command "DOWN" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 19 (1019): Allow function code editing (data change enabled) "WE-KP" V/f PGV/f SLV PGV PMSLV PMPGV TRQ 20 (1020): Cancel PID control "Hz/PID"	N	Y	99	

	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 21 (1021): Switch normal/ inverse operation "IVS"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 22 (1022): Interlock "IL"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 23 (1023): Cancel torque control "Hz/TRQ"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 24 (1024): Select link operation (RS-485, BUS option) "LE"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 25 (1025): Universal DI "U-DI"Universal DI					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 26 (1026): Select auto search for idling motor speed at starting "STM"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 30 (1030): Force to stop (30 = Active OFF/1030 = Active ON) "STOP"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 32 (1032): Pre-excite "EXITE"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 33 (1033): Reset PID integral and differential terms "PID-RST"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 34 (1034): Hold PID integral term "PID-HLD"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 35 (1035): Local (keypad) command selection "LOC"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 36 (1036): Select motor 3 "M3"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 37 (1037): Select motor 4 "M4"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 39: Condensation prevention "DWP"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 40: Switch to commercial power built-in sequence (50 Hz) "ISW50"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 41: Switch to commercial power built-in sequence (60 Hz) "ISW60"					
	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 42 (1042): Activate the limit switch at start point "LS"					

*3: The motor rated current is automatically set. Refer to Table 5.2-2 Motor constants (function code P03).

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 46 (1046): Overload stop enable command "OLS"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 47 (1047): Servo lock command "LOCK"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 49 (1049): Pulse train sign terminal "SIGN"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 58 (1058): UP/DOWN frequency clear "STZ"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 59 (1059): Battery operation selection "BATRY"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 60 (1060): Select torque bias 1 "TB1"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 61 (1061): Select torque bias 2 "TB2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 62 (1062): Hold torque bias "H-TB"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 65 (1065): Check brake "BRKE"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 70 (1070): Cancel line speed control "Hz/LSC"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 71 (1071): Hold line speed control frequency in the memory "LSC-HLD"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 72 (1072): Count the run time of commercial power-driven motor 1 "CRUN-M1"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 73 (1073): Count the run time of commercial power-driven motor 2 "CRUN-M2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 74 (1074): Count the run time of commercial power-driven motor 3 "CRUN-M3"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 75 (1075): Count the run time of commercial power-driven motor 4 "CRUN-M4"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 76 (1076): Select droop control "DROOP"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 77 (1077): Speed deviation error cancel "PG-CCL"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 78 (1078): Speed control parameter selection 1 "MPRM1"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 79 (1079): Speed control parameter selection 2 "MPRM2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 80 (1080): Cancel customizable logic "CLC"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 81 (1081): Clear all customizable logic timers "CLTC"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 82 (1082): Anti-regenerative control cancel "AR-CCL"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 83 (1083): PG input switching "PG-SEL"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 84 (1084): Acceleration/deceleration cancel (bypass) "BPS"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 94: Forward rotation JOG "FJOG"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 95: Reverse rotation JOG "RJOG"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 97 (1097): Direction command "DIR"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 98: Run forward / stop command "FWD"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 99: Run reverse / stop command "REV"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 100: No assignment "NONE"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 105 (1105): Light load automatic double speed judgment permission "LAC-ENB"				

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 110 (1110): Servo lock gain selection "LSG2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 111 (1111): Forced stop (terminal block only) (111 = Active OFF/1111 = Active ON) "STOP-T"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 116 (1116): AVR cancel "AVR-CCL"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 119 (1119): Speed regulator P selection "P-SEL"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 121 (1121) to 129 (1129): Customizable logic input 1 to 9 "CLI1" to "CLI9"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 134 (1134): Forced operation command "FMS"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 135 (1135): Travel/absolute position switching "INC/ABS"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 136 (1136): Orientation command "ORT"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 137 (1137): Position control/speed control switching "POS/Hz"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 138 (1138): Homing command "ORG"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 139 (1139): + direction overtravel "+OT"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 140 (1140): - direction overtravel "-OT"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 141 (1141): Position clear command "P-CLR"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 142 (1142): Position preset command "P-PRESET"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 143 (1143): Teaching command "TEACH"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 144 (1144): Positioning data change command "POS-SET"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 145 (1145): Positioning data selection 1 "POS-SEL1"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 146 (1146): Positioning data selection 2 "POS-SEL2"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 147 (1147): Positioning data selection 4 "POS-SEL4"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 169 (1169): Initial diameter set command "D-SET"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 170 (1170): Winding diameter calculation hold command "D-HLD"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 171 (1171): PID control multistage command 1 "PID-SS1"				
		V/f PGV/f SLV PGV PMSLV PMPGV TRQ 172 (1172): PID control multistage command 2 "PID-SS2"				
		* Inside the ( ) is the negative logic signal (OFF at short-circuit).				

■ C codes: Control Functions of Frequency (Control function)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
C01	Jump frequency 1	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 599.0 Hz	Y	Y	0.0	5-212
C02	2		Y	Y	0.0	
C03	3		Y	Y	0.0	
C04	(Skip width)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 30.0 Hz	Y	Y	3.0	
C05	Multistep frequency 1	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 599.00 (Hz)	Y	Y	0.00	5-213
C06	2		Y	Y	0.00	
C07	3		Y	Y	0.00	
C08	4		Y	Y	0.00	
C09	5		Y	Y	0.00	
C10	6		Y	Y	0.00	
C11	7		Y	Y	0.00	
C12	8		Y	Y	0.00	
C13	9		Y	Y	0.00	
C14	10		Y	Y	0.00	
C15	11		Y	Y	0.00	
C16	12		Y	Y	0.00	
C17	13		Y	Y	0.00	
C18	14		Y	Y	0.00	
C19	15		Y	Y	0.00	
C20	Jogging frequency	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 599.00 Hz	Y	Y	0.00	5-214
C21	Pattern operation / timed operation (Operation selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: 1 cycle operation 1: Repetition operation 2: Constant speed operation after 1 cycle operation 3: Timed operation	N	Y	0	5-215
C22	(Stage 1)	Special setting: Press the FUNC DATA key 3 times. 1st: Set run time 0.0 to 6000 s and press the FUNC DATA key. 2nd: Set rotational direction F (forward) or r (reverse) and press the FUNC DATA key. 3rd: Set acceleration/deceleration time 1 to 4 and press the FUNC DATA key.	Y	Y	1st: 0.00 2nd: F 3rd: 1	
C23	(Stage 2)		Y	Y		
C24	(Stage 3)		Y	Y		
C25	(Stage 4)		Y	Y		
C26	(Stage 5)		Y	Y		
C27	(Stage 6)		Y	Y		
C28	(Stage 7)		Y	Y		
C30	Frequency setting 2	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Keypad key operation (▲/▼ keys) 1: Analog voltage input (Terminal [12]) (from 0 to ±10 VDC) 2: Analog current input (Terminal [C1] (C1 function)) (0 to 20 mA DC) 3: Analog voltage input (Terminal [12]) + Analog current input (Terminal [C1] (C1 function)) 5: Analog voltage input (Terminal [V2]) (from 0 to ±10 VDC) 6: Analog voltage input (Terminal [C1] (V3 function)) (0 to 10 VDC) 7: UP/DOWN control 8: Keypad key operation (▲/▼ keys) (with balanceless bumpless) 10: Pattern operation 11: Digital input interface card OPC-DI (option) 12: Pulse train input	N	Y	2	5-218
C31	Analog input adjustment (Terminal [12]) (Offset)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -5.0 to 5.0 %	Y*	Y	0.0	5-218
C32	(Gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 400.00%	Y*	Y	100.00	
C33	(Filter)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 5.00 s	Y	Y	0.05	
C34	(Gain base point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	100.00	
C35	(polarity selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Bipolar 1: Unipolar	N	Y	1	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
C36	Analog input adjustment (Terminal [C1]) (C1 function) (Offset)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -5.0 to 5.0 %	Y*	Y	0.0	
C37	(Gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 400.00%	Y*	Y	100.00	
C38	(Filter)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 5.00 s	Y	Y	0.05	
C39	(Gain base point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	100.00	
C40	(Operation selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: 4 to 20 mA Unipolar 1: 0 to 20 mA Unipolar 10: 4 to 20 mA Bipolar 11: 0 to 20 mA Bipolar	N	Y	0	
C41	Analog input adjustment (Terminal [V2]) (offset)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -5.0 to 5.0 %	Y*	Y	0.0	
C42	(Gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 400.00%	Y*	Y	100.00	
C43	(Filter)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 5.00 s	Y	Y	0.05	
C44	(Gain base point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	100.00	
C45	(polarity selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Bipolar 1: Unipolar	N	Y	1	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
C50	Bias (for frequency setting 1) (Bias base point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	0.00	5-221
C51	Bias (PID command 1) (bias value)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -100.0 to 0.00 to 100.00%	Y*	Y	0.00	
C52	Bias (PID command 1) (Bias base point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	0.00	
C53	Selection of normal/inverse operation (Frequency setting 1)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Normal 1: Inverse	Y	Y	0	5-221
C54	Selection of normal/inverse operation (Frequency setting 2)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Normal 1: Inverse	Y	Y	0	
C55	Analog input adjustment (Terminal [12]) (Bias)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -200.0 to 0.00 to 200.00%	Y*	Y	0.00	5-218
C56	(Bias base point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	0.00	
C58	(Display unit)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ * Same as J105	Y	Y	2	5-221
C59	(maximum scale)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -999.0 to 0.00 to 9990.0	N	Y	100.00	5-222
C60	(minimum scale)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -999.0 to 0.00 to 9990.0	N	Y	0.00	
C61	Analog input adjustment (Terminal [C1] (C1 function)) (Bias)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -200.0 to 0.00 to 200.00 %	Y*	Y	0.00	5-218
C62	(Bias base point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	0.00	
C64	(Display unit)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ * Same as J105	Y	Y	2	5-221
C65	(maximum scale)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -999.0 to 0.00 to 9990.0	N	Y	100.00	5-222
C66	(minimum scale)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -999.0 to 0.00 to 9990.0	N	Y	0.00	
C67	Analog input adjustment (Terminal [V2]) (Bias)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -200.0 to 0.00 to 200.00 %	Y*	Y	0.00	5-218
C68	(Bias base point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	0.00	
C70	(Display unit)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ * Same as J105	Y	Y	2	5-221
C71	(maximum scale)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -999.0 to 0.00 to 9990.0	N	Y	100.00	5-222
C72	(minimum scale)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -999.0 to 0.00 to 9990.0	N	Y	0.00	
C74	Analog input adjustment (Terminal [C1]) (V3 function) (Offset)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -5.0 to 5.0 %	Y*	Y	0.0	
C75	(Gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 400.00 %	Y*	Y	100.00	
C76	(Filter)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 5.00 s	Y	Y	0.05	
C77	(Gain reference point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	100.00	
C78	(Operation selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Bipolar 1: Unipolar	N	Y	1	
C82	(Bias)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -200.0 to 0.00 to 200.00 %	Y*	Y	0.00	
C83	(Bias reference point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	0.00	
C84	(Display unit)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ * Same as J105	Y	Y	2	
C85	(Maximum scale)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ The analog input monitor terminal [C1] (C1 and V2 functions) display in the -999.0 to 0.00 to 9990.0 range can be converted into easily recognizable physical quantities. This function can also be used for PID feedback and PID command values.	N	Y	100.00	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
C86	(Minimum scale)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ The analog input monitor terminal [C1] (C1 function) display in the -999.0 to 0.00 to 9990.0 range can be converted into easily recognizable physical quantities. This function can also be used for PID feedback and PID command values.	N	Y	0.00	
C89	Frequency compensation 1 via communication (Numerator)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -32768 to 32767 (Keypad display is 8000 to 7FFF (in hexadecimal)) (Interpreted as 1 when the value is set to 0)	Y	Y	1	-
C90	Frequency compensation 2 via communication (Denominator)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -32768 to 32767 (Keypad display is 8000 to 7FFF (in hexadecimal)) (Interpreted as 1 when the value is set to 0)	Y	Y	1	-
C94	Jump frequency 4	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 599.0 Hz	Y	Y	0.0	
C95	5		Y	Y	0.0	
C96	6		Y	Y	0.0	
C99	Digital setting frequency	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 599.00 Hz	Y*	Y	0.00	

■ P codes: Motor 1 Parameters (Motor 1 parameters)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
P01	Motor 1 (No. of poles)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 2 to 128 poles	N	Y1Y2	4	5-223
P02	(Rated capacity)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.01 to 1000 kW (At P99 = 0 or 2 to 5, 20 to 23) 0.01 to 1000 HP (At P99 = 1)	N	Y1Y2	*6	5-223
P03	(Rated current)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 2000 A	N	Y1Y2	*6	5-223
P04	(Auto-tuning)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Stop tuning 2: Rotation tuning 4: Synchronous motor magnetic pole position offset tuning 5: Stop tuning (%R1, %X only)	N	N	0	5-224
P05	(Online tuning)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: 0: Disable, 1: Enable	Y	Y	0	5-225
P06	(No-load current)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 2000A	N	Y1Y2	*6	5-226
P07	(%R1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 50.00%	Y	Y1Y2	*6	
P08	(%X)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 50.00%	Y	Y1Y2	*6	
P09	(Slip compensation gain for driving)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 200.0%	Y*	Y	100.0	5-226
P10	(Slip compensation response time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.01 to 10.00 s	Y	Y1Y2	0.5	
P11	(Slip compensation gain for braking)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 200.0 %	Y*	Y	100.0	
P12	(Rated slip frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 15.00 Hz	N	Y1Y2	*6	5-226
P13	(Iron loss factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00%	Y	Y1Y2	*6	5-227
P14	(Iron loss factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00%	Y	Y1Y2	0.00	
P15	(Iron loss factor 3)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00%	Y	Y1Y2	0.00	
P16	(Magnetic saturation factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0%	Y	Y1Y2	*6	5-227
P17	(Magnetic saturation factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0%	Y	Y1Y2	*6	
P18	(Magnetic saturation factor 3)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0%	Y	Y1Y2	*6	
P19	(Magnetic saturation factor 4)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0%	Y	Y1Y2	*6	
P20	(Magnetic saturation factor 5)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0%	Y	Y1Y2	*6	
P21	(Magnetic saturation expansion coefficient a)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0%	Y	Y1Y2	*6	
P22	(Magnetic saturation expansion coefficient b)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0%	Y	Y1Y2	*6	
P23	(Magnetic saturation expansion coefficient c)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0%	Y	Y1Y2	*6	
P24	(Load inertia)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 99.990 s	Y	Y1Y2	0.000	
P30	(Synchronous motor magnetic pole position detection method selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Pull-in by current 1: For IPMSM (Interior permanent magnet synchronous motor) 2: For SPMSM (Surface permanent magnet synchronous motor) 3: Pull-in by current for IPMSM (Interior permanent magnet synchronous motor) 4: High-frequency superimposing method for IPMSM	N	Y1Y2	1	5-228
P40	(For adjustment by manufacturer)*9	0 to 100	Y	Y1Y2	15	
P41	(For adjustment by manufacturer)*9	-50.0 to 50.0	Y	Y1Y2	1.0	
P53	(%X correction factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 300%	Y	Y1Y2	100	5-230

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
P54	(%X correction factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 300%	Y	Y1Y2	100	
P55	(Torque current under vector control)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 2000 A	N	Y1Y2	*6	5-230
P56	(Induced voltage factor under vector control)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 50 to 100%	N	Y1Y2	*6	5-230
P57	(For adjustment by manufacturer) *9	0.00 to 20.000	Y	Y1Y2	*6	
P60	(Synchronous motor armature resistance)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 50.000 Ω (phase)	N	Y1Y2	*7	5-230
P61	(Synchronous motor d-axis inductance)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 500.00 mH (phase)	N	Y1Y2	*7	
P62	(Synchronous motor q-axis inductance)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 500.00 mH (phase)	N	Y1Y2	*7	
P63	(Synchronous motor induced voltage)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 80 to 240 V (200V class); 160 to 500 V (400V class)	N	Y1Y2	*7	
P64	(Synchronous motor iron loss)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 20.0% (100% = Iron loss for motor rated current, base speed)	Y	Y1Y2	*7	
P65	(Synchronous motor q-axis inductance magnetic saturation correction)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 100.0% (100% = No magnetic saturation) ; 999 (factory adjustment value)	Y	Y1Y2	999	5-230
P74	(Synchronous motor current command value when starting)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 10 to 200% (100%= motor rated current)	Y*	Y1Y2	80 *7	5-230
P83	(For adjustment by manufacturer) *9	0.0 to 50.0; 999	Y	Y1Y2	999	5-231
P84	(For adjustment by manufacturer) *9	0.0 to 100.0; 999	N	Y1Y2	999	
P85	(Synchronous motor flux limitation value)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 50.0 to 150.0; 999 (factory adjustment value)	Y	Y1Y2	999	5-230
P86	(For adjustment by manufacturer) *9	0.0 to 100.0	N	N	0.0	5-231
P87	(Synchronous motor NS discrimination current command value)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 200% (100% = Motor rated current)	N	Y1Y2	60	5-231
P88	(For adjustment by manufacturer) *9	0 to 100; 999	N	Y1Y2	999	5-231
P89	(Synchronous motor control switching level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0; 1 to 100	N	Y1Y2	0	
P90	(Synchronous motor overcurrent protection level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 (cancel); 0.01 to 4000 A	N	Y1Y2	*7	5-231
P95	(Synchronous motor magnetic pole position sensor offset)	V/f PGV/f SLV PGV SLV PM SLV PM PGV TRQ 0.0 to 359.9 degree; 999 (offset not set)	Y	Y	999	
P99	Motor 1 selection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Motor characteristics 0 (Fuji standard IM, 8-series) 1: Motor characteristics 1 (HP rating IMs) 2: Motor characteristics 2 (Fuji dedicated motors for vector control) 3: Motor characteristics 0 (Refer to replacement material when using Fuji standard IM, 6-series) 4: Other IMs 5: Motor characteristics 5 (Fuji premium efficiency motors) 20: Other (synchronous motors) 21: Motor characteristics (Fuji synchronous motor (GNB2 series)) 22: Motor characteristics (Fuji synchronous motor (GNF2 series)) 23: Motor characteristics (Fuji synchronous motor (GNP1 series))	N	Y1Y2	5	5-232

*6: Factory defaults are depended on motor capacity.
*7: The constant for Fuji standard synchronous motor GNB series is set as the factory default.
*9: This is a function code for adjustment by the manufacturer. Do not access these function codes.

■ H codes: High Performance Functions (High level functions)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
H00	Simulated operation mode	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Normal operation 1: Simulated operation mode	N	Y	0	5-235
H02	Data initialization (Method)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Standard 1: User preference dataset (setting value saved when using H193, H194)	Y	Y	0	5-235
H03	Data initialization	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Manual setting value 1: Initialization (based on H02 setting) 2: Motor 1 constant initialization 3: Motor 2 constant initialization 4: Motor 3 constant initialization 5: Motor 4 constant initialization 11: Limited initialization (initialization excluding communication function codes) 12: Limited initialization (initialization of customizable logic U codes) 13: Limited initialization (clearing of favorites)	N	N	0	
H04	Auto-reset (Times)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable, 1 to 20: Number of retries	Y	Y	0	5-239
H05	(Interval)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.5 to 20.0 s	Y	Y	5.0	
H06	Cooling fan ON/OFF control	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable (Always Fan ON) 1: Enable (ON/OFF control effective)	Y	Y	0	5-240
H07	Curve acceleration/deceleration	V/f PGV/f SLV PGV PMSLV PMPGV 0: Disable (Linear acceleration/deceleration) 1: S-curve acceleration/deceleration (Weak) 2: S-curve acceleration/deceleration (Arbitrary: According to H57 to H60) 3: Curve acceleration/deceleration	Y	Y	0	5-240
H08	Rotation direction restriction	V/f PGV/f SLV PGV PMSLV PMPGV 0: Disable 1: Enable (Reverse rotation inhibited) 2: Enable (Forward rotation inhibited)	N	Y	0	5-240
H09	Starting mode (Auto search)	V/f PGV/f 0: Disable 1: Enable (Only at restart after momentary power failure) 2: Enable (At normal start and at restart after momentary power failure)	N	Y	0	5-241
H11	Deceleration mode	V/f PGV/f SLV PGV PMSLV PMPGV 0: Normal deceleration, 1: Coast to stop	Y	Y	0	5-243
H12	Instantaneous overcurrent limiting (Mode selection)	V/f PGV/f 0: Disable, 1: Enable	Y	Y	1	5-150
H13	Restart mode after momentary power failure (Restart timer)	V/f PGV/f SLV PGV PMSLV PMV 0.1 to 20.0 s	Y	Y1Y2	*2	5-243
H14	(Frequency fall rate)	V/f PGV/f 0.00: Selected deceleration time, 0.01 to 100.00 Hz/s, 999 (According to current limiter)	Y	Y	999	
H15	(Continuous running level)	V/f PGV/f SLV PGV PMSLV PMPGV 200 to 300 V: (200 V series) 400 to 600 V: (400 V series)	Y	Y2	235 470	
H16	(Permissible momentary power failure time)	V/f PGV/f SLV PGV PMSLV PMPGV 0.0 to 30.0 s, 999 (Depend on inverter judgment)	Y	Y	999	
H18	Torque control (Mode selection)	SLV PGV PMSLV PMPGV TRQ 0: Disable (Speed control) 2: Function (Torque current command) 3: Function (Torque command)	N	Y	0	5-244
H26	Motor 1 (Thermistor operation selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable 1: PTC: 0H4 trip and stop the inverter 2: PTC: Output motor overheat detected “THM” and continue to run 3: NTC: 0H4 trip and stop the inverter	Y	Y	0	5-247
H27	(Operation level)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 5.00 V	Y	Y	0.35	
H28	Droop control	V/f PGV/f SLV PGV PMSLV PMPGV -60.0 to 0.0 Hz	Y	Y	0.0	5-249

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
H30	Communication link function (Mode selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ **Frequency setting/torque command** — **Run command** 0: F01/C30 — F02 1: RS-485 communication (Port 1) — F02 2: F01/C30 — RS-485 communication (Port 1) 3: RS-485 communication (Port 1) — RS-485 communication (Port 1) 4: RS-485 communication (Port 2) — F02 5: RS-485 communication (Port 2) — RS-485 communication (Port 1) 6: F01/C30 — RS-485 communication (Port 2) 7: RS-485 communication (Port 1) — RS-485 communication (Port 2) 8: RS-485 communication (Port 2) — RS-485 communication (Port 2)	Y	Y	0	5-250
H31	Link function (Actual terminal operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Enable	N	Y	0	5-250
H42	Capacitance of DC link bus capacitor	V/f PGV/f SLV PGV PM SLV PM PGV TRQ For adjustment when carrying out replacement, 0 to 65535	Y	N	-	5-253
H43	Cumulative run time of cooling fan	V/f PGV/f SLV PGV PM SLV PM PGV TRQ For adjustment when carrying out replacement, 0 to 99990 hours (updated in 10 hour units) Displays the cumulative run time for the cooling fan	Y	N	0	
H44	Startup count for motor 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ For adjustment when carrying out replacement, 0 to 65535 times	Y	N	-	5-257
H45	Simulation failure	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Occurrence of mock alarm	Y	N	0	5-257
H46	Starting mode (Auto search delay time 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.1 to 20.0 s	Y	Y1Y2	*6	5-257
H47	Initial capacitance of DC link bus capacitor	V/f PGV/f SLV PGV PM SLV PM PGV TRQ For adjustment when carrying out replacement, 0 to 65535	Y	N	-	5-257
H48	Cumulative run time of capacitors on printed circuit boards	V/f PGV/f SLV PGV PM SLV PM PGV TRQ For adjustment when carrying out replacement, 0 to 99990 hours (updated in 10 hour units) Change in cumulative motor run time (reset also possible)	Y	N	0	5-253 5-257
H49	Starting mode (Auto search delay time 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 10.0 s	Y	Y	0.0	5-258
H50	Non-linear V/f 1 (Frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 (Cancel), 0.1 to 599.0 Hz	N	Y	0.0 *11	5-258
H51	(Voltage)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 240 V: AVR operation (200 V series) 0 to 500 V: AVR operation (400 V series)	N	Y2	0 *12	
H52	Non-linear V/f 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 (Cancel), 0.1 to 599.0 Hz	N	Y	0.0	
H53	(Voltage)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 240 V: AVR operation (200 V series) 0 to 500 V: AVR operation (400 V series)	N	Y2	0	
H54	Acceleration time (Jogging)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 6000 s	Y	Y	*10	5-258
H55	Deceleration time (Jogging)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 6000 s	Y	Y	*10	

*2: Factory defaults are depended on motor capacity. Refer to Table 5.2-1 Factory default settings by inverter capacity.
*6: Factory defaults are depended on motor capacity.
*10 6.00 s for 22 kW or lower inverters, 20.00 s for 30 kW or higher inverters
*11 If F37 = 0, 5.0 Hz is automatically set for 30 kW or higher inverters.
*12 If F37 = 0, 20 V is automatically set for 30 kW or higher 200V series inverters, and 40 V is set for 400V series inverters.

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
H56	Deceleration time for forced stop	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 6000 s	Y	Y	*10	
H57	1st S-curve acceleration range (At starting)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 100 %	Y	Y	10	5-258
H58	2nd S-curve acceleration range (At arrival)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 100 %	Y	Y	10	
H59	1st S-curve deceleration range (At starting)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 100 %	Y	Y	10	
H60	2nd S-curve deceleration range (At arrival)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 100 %	Y	Y	10	
H61	UP/DOWN control (Initial frequency setting)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Initial value is 0.00 Hz (G1S compatible operation) 1: Last UP/DOWN command value on releasing the run command. 2: Initial value is 0.00 Hz. 3: Initial value is frequency set with UP/DOWN command immediately before	N	Y	3	5-258
H62	UP/DOWN control - extension function selection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: None 1: Auxiliary frequency setting 1 2: Auxiliary frequency setting 2 3: PID command 1 6: Ratio setting 7: Analog torque limiter A 8: Analog torque limiter B 9: Torque bias 10: Torque command 11: Torque current command 12: Acceleration/deceleration time ratio setting 13: Upper limit frequency 14: Lower limit frequency 15: Auxiliary frequency setting 3 16: Auxiliary frequency setting 4 17: Speed limit for forward rotation (FWD) 18: Speed limit for reverse rotation (REV) 20: Analog signal input monitor	N	Y	0	5-xxx
H63	Low limiter (Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Limit by F16 (Frequency limiter: Low) and continue to run 1: If the output frequency lowers below the one limited by F16 (Frequency limiter: Low), decelerate to stop the motor.	Y	Y	0	5-258
H64	(Minimum frequency when performing limiting operation)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0: (Lower limiting frequency) 0.1 to 599.0 (Hz) *15	Y	Y	1.6	5-258
H65	Non-linear V/f 3 (Frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 (Cancel), 0.1 to 599.0 Hz	N	Y	0.0	5-258
H66	(Voltage)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 240 V: AVR operation (200 V series) 0 to 500 V: AVR operation (400 V series)	N	Y2	0	
H67	Auto energy-saving operation (Mode selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Enable only during constant speed 1: Enable for all modes	Y	Y	0	5-258
H68	Slip compensation 1 (Operating conditions selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Enable during acceleration/deceleration, enable at base frequency or higher 1: Disable during acceleration/deceleration, enable at base frequency or higher 2: Enable during acceleration/deceleration, disable at base frequency or higher 3: Disable during acceleration/deceleration, disable at base frequency or higher	N	Y	0	5-258
H69	Anti-regenerative control (Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 2: Torque limit control with force-to-stop (Cancel limit control after three times of deceleration time has passed) 3: DC link bus voltage control with force-to-stop (Cancel voltage control after three times of deceleration time has passed) 4: Torque limit control without force-to-stop 5: DC link bus voltage control without force-to-stop	Y	Y	0	5-259
H70	Overload prevention control	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00: Follow the deceleration time selected 0.01 to 100.00 Hz/s, 999 (Cancel)	Y	Y	999	5-260
H71	Deceleration characteristic	V/f PGV/f SLV PGV PM SLV PMV TRQ 0: Disable, 1: Enable 2: Enable (AVR cancel)	Y	Y	0	5-260
H72	Main power shutdown detection (Mode selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable, 1: Enable	Y	Y	1	5-261
H73	Torque limiter (Operating conditions selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Enable during acceleration/deceleration, enable during constant speed 1: Disable during acceleration/deceleration, enable during constant speed 2: Enable during acceleration/deceleration, disable during constant speed	N	Y	0	5-261
H74	Torque limiter (Control target)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Torque limit control 1: Torque current limit 2: Power limit	N	Y	1	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
H75	Torque limit (Applicable quadrant)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Drive/braking 1: 4 identical quadrants 2: Upper limit/lower limit 3: 4 independent quadrants	N	Y	0	5-261
H76	Torque limiter (Braking) (Frequency rising limiter for braking)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 599.0 Hz	Y	Y	5.0	5-261
H77	Service life of DC link bus capacitor	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 87600 hours (updated in 10 hour units)	Y	N	87600	5-261
H78	Maintenance interval (M1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 (Disable), 1 to 99990 hours (updated in 10 hour units)	Y	N	87600	5-262
H79	Preset startup count for maintenance (M1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 (Disable), 1 to 65535 times	Y	N	0	5-263
H80	Output current fluctuation damping gain for motor 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 1.00	Y	Y	0.20	5-263
H81	Light alarm selection 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0000 to FFFF (in hexadecimal)	Y	Y	0000	5-264
H82	Light alarm selection 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0000 to FFFF (in hexadecimal)	Y	Y	0000	
H83	Light alarm selection 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0000 to FFFF (in hexadecimal)	Y	Y	0000	
H84	Pre-excitation *5 (Level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 100 to 400 % (Motor rated magnetizing current for 100 %)	Y	Y	100	5-268
H85	(Braking time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00: Disable 0.01 to 30.00 s	Y	Y	0.00	
H86	For adjustment by manufacturer *9	0 to 2	Y	Y	0	5-270
H89	For adjustment by manufacturer *9	0, 1	Y	Y	1	5-270
H90	For adjustment by manufacturer *9	0, 1	Y	Y	0	5-270
H91	Current input wire break detection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 (Alarm disable): 0.1 to 60.0 s	Y	Y	0.0	5-270
H92	Continuous running at the momentary power failure (P)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 10.000 times 999: Manufacturer adjustment value	Y	Y1 Y2	999	5-270
H93	(I)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.010 to 10.000 s 999: Manufacturer adjustment value	Y	Y1 Y2	999	
H94	Cumulative run time of motor 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 99990 hours (updated in 10 hour units) Change in cumulative motor run time (reset possible)	N	N	-	5-270 5-270
H95	DC braking (Braking response mode)	V/f PGV/f SLV PGV PM SLV PM SLV TRQ 0: Slow response 1: Quick response	Y	Y	1	5-120 5-270
H96	STOP key priority/ Start check function	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: STOP key priority disable/ Start check function disable 1: STOP key priority enable/ Start check function disable 2: STOP key priority disable/ Start check function enable 3: STOP key priority enable/ Start check function enable	Y	Y	0	5-271
H97	Clear alarm data	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Clear alarm data (Automatically return to 0 after clearing data)	Y	N	0	5-271
H98	Protection/Maintenance function (Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 255 (Data is displayed in decimal) 0: Disable; 1: Enable) Bit 0: Lower the carrier frequency automatically (0: Disable; 1: Enable) Bit 1: Input phase loss protection (0: Disable; 1: Enable) Bit 2: Output phase loss protection (0: Disable; 1: Enable) Bit 3: DC link bus capacitor life judgment selection (0: Factory default referenced; 1: User measurement value standard) Bit 4: Judge the life of DC link bus capacitor (0: Disable; 1: Enable) Bit 5: Detect DC fan lock (0: Enable; 1: Disable) Bit 6: Braking transistor error detection (0: Disable; 1: Enable) Bit 7: IP20/IP40 switching (0: IP20 ; 1: IP40)	Y	Y	*16	5-272
H99	Password function password 2 Setting/comparison	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0000 to FFFF (in hexadecimal)	Y	N	0	5-274

*9 This is a function code for adjustment by the manufacturer. Do not access these function codes.
*15 When the sensorless vector control for PM is set to less than 10% of F04 (base frequency), the internal operation of H64 is limited to the P89 setting (%) of F04.
*16 Up to 55kW: 83 (decimal display) 75kW: 19 (decimal display)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
H101	Destination setting	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Not selected 1: J 2: Asia 3: China 4: Europe 5: Americas 7 : East Asia (Taiwan,etc.)	N	Y	1	5-277
H114	Anti-regenerative control (Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 50.0 %, 999 (Auto)	Y	Y	999	5-277
H116	Forced operation (Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: [FMS] ON (Mode 1) 1: [FMS] ON/OFF torque method (Mode 1) 2: [FMS] ON latch method (Mode 1) 10: [FMS] ON (Mode 2) 11: [FMS] ON/OFF torque method (Mode 2) 12: [FMS] ON latch method (Mode 2) 20: [FMS] ON (Mode 3) 21: [FMS] ON/OFF torque method (Mode 3) 22: [FMS] ON latch method (Mode 3)	N	N	0	5-277
H117	Forced operation (Confirmation time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.5 to 10.0s	Y	Y	3.0	
H118	Forced operation (Set frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 (Inherit): Based on normal set frequency such as F01 0.1 to 599.0 Hz	Y	Y	0.0	
H119	Forced operation (Operation direction)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Based on normal run command such as F02 2: Forward rotation 3: Reverse rotation	Y	N	0	
H120	Forced operation (Starting method)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Based on normal starting method 1: Auto search (Speed search)	Y	Y	0	
H121	Forced operation (Wait time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.5 to 20.0 s	Y	Y	5.0	
H130	For special adjustment (Torque limiting)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 2.000; 999	Y	Y	999	5-279
H131	For special adjustment (Torque limiting)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 ; 0.001 to 9.999 ; 999	Y	Y	999	
H132	For special adjustment (Torque limiting)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 ; 0.001 to 9.999 ; 999	Y	Y	999	
H133	For special adjustment (Anti-regenerative control)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 2.000; 999	Y	Y	999	5-279
H134	For special adjustment (Anti-regenerative control)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 ; 0.001 to 9.999 ; 999	Y	Y	999	
H135	For special adjustment (Anti-regenerative control)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 ; 0.001 to 9.999 ; 999	Y	Y	999	
H136	For special adjustment (Current limiting)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 1.00; 999	Y	Y	999	5-279
H137	For special adjustment (Current limiting)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.001 to 10.000; 999	Y	Y	999	
H147	Speed control (JOG) FF (Gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 99.99 s	Y*	Y	0.00	5-279 5-322
H154	Torque bias (Mode selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Digital torque bias 2: Analog torque bias 3: RS-485 communications link (port 1) 4: RS-485 communications link (port 2) 5: Fieldbus link	N	Y	0	5-280
H155	(Level 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -300 to +300 %	Y	Y	0	
H156	(Level 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -300 to +300 %	Y	Y	0	
H157	(Level 3)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -300 to +300 %	Y	Y	0	
H158	(Mechanical loss compensation)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 300 %	Y	Y	0	
H159	(Startup timer)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 1.00 s	N	Y	0.00	
H161	(Shutdown timer)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 1.00 s	N	Y	0.00	
H162	(Limiter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 300 %	N	Y	200	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
H173	Magnetic flux level at light load	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 10 to 100 %	Y	Y	100	5-281
H180	Brake control signal (Check-timer for brake operation)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 10.00 s	Y	Y	1.00	5-281 5-309
H190	Motor output phase sequence selection	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: No phase sequence change 1: Terminal [U]: outputs U phase, terminal [V]: outputs W phase, terminal [W]: outputs V phase	N	Y	0	
H193	User preference dataset (Save)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable 1: Save	Y	N	0	5-238
H194	(Protection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Save enable 1: Protected (Save disable)	Y	Y	0	
H195	DC braking (Braking timer at the startup)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 (Disable): 0.01 to 30.00 s PMSLV is valid only when P30 = 0	Y	Y	0.00	5-120 5-282
H196	For adjustment by manufacturer *9	0.001 to 9.999, 999	Y	Y	999	-
H197	User password 1 (Selection of protective operation)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: All function codes are disclosed, but the change is not allowed. 1: Only the function code for quick setup can be disclosed/changed. 2: Only the function code for customize logic setting is not disclosed/not changed.	Y	Y	0	5-274
H198	User password 1 (Setting/check)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0000 to FFFF (in hexadecimal)	Y	N	0	
H199	User password protection valid	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable 1: Protected	Y	N	0	

*9 This is a function code for adjustment by the manufacturer. Do not access these function codes.

*12 Y only when P30 = 0

■ A codes: Motor 2 Parameters (Motor 2 parameters)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
A01	Maximum output frequency 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 5.0 to 599.0 Hz	N	Y	60.0	-
A02	Base frequency 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 5.0 to 599.0 Hz	N	Y	50.0	
A03	Rated voltage at base frequency 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: AVR disable (output voltage proportional to power voltage) 80 to 240 V: AVR operation (200 V series) 160 to 500 V: AVR operation (400 V series)	N	Y2	200/400	
A04	Maximum output voltage 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 80 to 240 V: AVR operation (200 V series) 160 to 500 V: AVR operation (400 V series)	N	Y2		
A05	Torque boost 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 20.0 % (% value against base frequency voltage 2)	Y	Y	*2	
A06	Electronic thermal overload protection for motor 2 (Select motor characteristics)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1: Enable (for a general-purpose motor with self-cooling fan) 2: Enable (for an inverter-driven motor with separately powered cooling fan)	Y	Y	1	
A07	(Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 (disable), current value of 1 to 135 % of inverter rated current	Y	Y1Y2	*3	
A08	(Thermal time constant)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.5 to 75.0 min	Y	Y	*10	
A09	DC braking 2 (starting frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0 Hz	Y	Y	0.0	
A10	(Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 100 % (HHD specification), 0 to 80 % (HND specification)	Y	Y	0	
A11	(Braking time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 (disable): 0.01 to 30.00 s	Y	Y	0.00	
A12	Starting frequency 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0 Hz	Y	Y	0.5	
A13	Load selection/ Auto torque boost/ Auto energy-saving operation 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Quadratic-torque load 1: Constant torque load 2: Auto torque boost 3: Auto energy-saving operation (quadratic-torque load) 4: Auto energy-saving operation (constant torque load) 5: Auto energy-saving operation with auto torque boost	N	Y	1	
A14	Drive control selection 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: V/f control without slip compensation 1: Dynamic torque vector control 2: V/f control with slip compensation 3: V/f control with sensor 4: Dynamic torque vector control with sensor 5: Sensorless vector control 6: Vector control with sensor	N	Y	0	
A15	Motor 2 (No. of poles)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 2 to 128 poles	N	Y1Y2	4	
A16	(Rated capacity)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.01 to 1000 kW (when A39 = 0,2 to 5) 0.01 to 1000 HP (At P39 = 1)	N	Y1Y2	*6	
A17	(Rated current)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 2000 A	N	Y1Y2	*6	
A18	(Auto-tuning)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Tune the motor while it is stopped 2: Rotation tuning 5: Stop tuning (%R1, %X only)	N	N	0	
A19	(Online tuning)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Invalid 1: Valid	Y	Y	0	
A20	(No-load current)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 2000 A	N	Y1Y2	*6	
A21	(%R1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 50.00 %	Y	Y1Y2	*6	
A22	(%X)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 50.00 %	Y	Y1Y2	*6	
A23	(Slip compensation gain for driving)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 200.0 %	Y*	Y	100.0	
A24	(Slip compensation response time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.01 to 10.00 s	Y	Y1Y2	0.12	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
A25	(Slip compensation gain for braking)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 200.0 %	Y*	Y	100.0	
A26	(Rated slip frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 15.00 Hz	N	Y1Y2	*6	
A27	(Iron loss factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00 %	Y	Y1Y2	*6	
A28	(Iron loss factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00 %	Y	Y1Y2	0.00	
A29	(Iron loss factor 3)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00 %	Y	Y1Y2	0.00	
A30	(Magnetic saturation factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
A31	(Magnetic saturation factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
A32	(Magnetic saturation factor 3)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
A33	(Magnetic saturation factor 4)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
A34	(Magnetic saturation factor 5)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
A35	(Magnetic saturation expansion coefficient a)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
A36	(Magnetic saturation expansion coefficient b)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
A37	(Magnetic saturation expansion coefficient c)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
A38	Load inertia 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 99.99 s	Y	Y1Y2	0.000	
A39	Motor 2 selection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Motor characteristics 0 (Fuji standard IM, 8-series) 1: Motor characteristics 1 (HP rating IMs) 2: Motor characteristics 2 (Fuji dedicated motors for vector control) 3: Motor characteristics 0 (Refer to replacement material when using Fuji standard IM, 6-series) 4: Other IMs 5: Motor characteristics 5 (Fuji premium efficiency motors)	N	Y1Y2	5	
A40	Slip compensation 2 (Operating conditions selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Enable during acceleration/deceleration, enable at base frequency or higher 1: Disable during acceleration/deceleration, enable at base frequency or higher 2: Enable during acceleration/deceleration, disable at base frequency or higher 3: Disable during acceleration/deceleration, disable at base frequency or higher	N	Y	0	
A41	Output current fluctuation damping gain for motor 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 1.00	Y	Y	0.20	

*2: Factory defaults are depended on motor capacity. Refer to Table 5.2-1 Factory default settings by inverter capacity.

*3: The motor rated current is automatically set. Refer to Table 5.2-2 Motor constants (function code P03).

*6: Factory defaults are depended on motor capacity.

*10: 5.0 min for 22 kW or lower inverters, 10.0 min for 30 kW or higher inverters

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
A42	Motor/parameter switching 2 (Operation selection)	V/f PGV/f SLV PGV PM SLV TRQ 0: Motor switching (Switching with motor 2) 1: Parameter switching (Switching with A code)	N	Y	0	
A43	Speed control 2 (Speed command filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 5.000 s	Y	Y	0.020	5-318
A44	(Speed detection filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 0.100 s	Y*	Y	0.005	
A45	P (Gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.1 to 200.0 times	Y*	Y	10.0	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
A46	I (Integral time)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.001 to 9.999 s, 999 (Cancel integral term)	Y*	Y	0.100	
A47	FF (Gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 99.99 s	Y*	Y	0.00	
A48	(Output filter)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.000 to 0.100 s	Y	Y	0.002	
A49	(Notch filter resonance frequency)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 to 500 Hz	Y	Y	200	
A50	(Notch filter attenuation level)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 40 dB	Y	Y	0	
A51	Cumulative run time of motor 2	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 99990 hours (Updated in 10 hour units) Change in cumulative motor run time (Reset possible)	N	N	0	-
A52	Startup count for motor 2	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 65535 times For adjustment when carrying out replacement	Y	N	0	
A53	Motor 2 (%X correction factor 1)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 300 %	Y	Y1Y2	100	
A54	(%X correction factor 2)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 300 %	Y	Y1Y2	100	
A55	(Torque current under vector control)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 2000 A	N	Y1Y2	*6	
A56	(Induced voltage factor under vector control)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 50 to 100 %	N	Y1Y2	*6	
A57	(For adjustment by manufacturer *9)	0.000 to 20.000 s	Y	Y1Y2	*6	
A58	Speed control 2 (Notch filter width)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 3 (0: Narrow to 3: Wide)	Y	Y	2	
A60	Speed display coefficient 2	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 600.00 0.00: Use E50	Y	Y	0.00	
A61	Constant rate of feeding coefficient 2/ Speed display auxiliary coefficient 2	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.000 to 9999	Y	Y	1.000	
A62	Starting frequency 2 (Holding time)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 10.00 s	Y	Y	0.00	
A63	Stop frequency 2	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 60.0 Hz; 999 (Based on F25 setting)	Y	Y	999	
A64	(Detection method)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Actual speed/estimated speed 1: Reference speed 100: Follow setting of F38	N	Y	100	
A65	(Holding time)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 10.00 s	Y	Y	0.00	
A66	Motor 2 (Thermistor operation selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable 1: PTC (OH4 trips and inverter stops) 2: PTC (Output signal (THM) is out, and motor continues to run) 3: NTC (OH4 trips and inverter stops) 100: G1 compatible operation	Y	Y	100	
A67	(Operation level)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 5.00 V	Y	Y	0.35	
A98	(Function selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 255 Bit 0: Current limiter (F43, F44) (0: Disable, 1: Enable) Bit 1: Rotational direction control (H08) (0: Disable, 1: Enable) Bit 2: Non-linear V/f (H50 to H53, H65, H66) (0: Disable, 1: Enable) Bit 3: PID control (J01 to J62, H91) (0: Disable, 1: Enable) Bit 4: Brake signal (0: Disable, 1: Enable) Bit 5: Braking timer at startup (H195) (0: Disable, 1: Enable) Bit 6 to 7: Reserved	N	Y	0	5-287

*6: Factory defaults are depended on motor capacity.
*9: This is a function code for adjustment by the manufacturer. Do not change.

■ b codes: Motor 3 Parameters (Motor 3 parameters)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
b01	Maximum output frequency 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 5.0 to 599.0 Hz	N	Y	60.0	-
b02	Base frequency 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 5.0 to 599.0 Hz	N	Y	50.0	
b03	Rated voltage at base frequency 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: AVR disable (output voltage proportional to power voltage) 80 to 240 V: AVR operation (200 V series) 160 to 500 V: AVR operation (400 V series)	N	Y2	200/400	
b04	Maximum output voltage 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 80 to 240 V: AVR operation (200 V series) 160 to 500 V: AVR operation (400 V series)	N	Y2		
b05	Torque boost 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 20.0 % (% value against base frequency voltage 3)	Y	Y	*2	
b06	Electronic thermal overload protection for motor 3 (Select motor characteristics)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1: Enable (for a general-purpose motor with self-cooling fan) 2: Enable (for an inverter-driven motor with separately powered cooling fan)	Y	Y	1	
b07	(Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 (disable), current value of 1 to 135 % of inverter rated current	Y	Y1Y2	*3	
b08	(Thermal time constant)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.5 to 75.0 min	Y	Y	*10	
b09	DC braking 3 (starting frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0 Hz	Y	Y	0.0	
b10	(Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 100 % (HHD specification), 0 to 80 % (HND specification)	Y	Y	0	
b11	(Braking time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 (disable): 0.01 to 30.00 s	Y	Y	0.00	
b12	Starting frequency 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0 Hz	Y	Y	0.5	
b13	Load selection/ Auto torque boost/ Auto energy-saving operation 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Quadratic-torque load 1: Constant torque load 2: Auto torque boost 3: Auto energy-saving operation (quadratic-torque load) 4: Auto energy-saving operation (constant torque load) 5: Auto energy-saving operation with auto torque boost	N	Y	1	
b14	Drive control selection 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: V/f control without slip compensation 1: Dynamic torque vector control 2: V/f control with slip compensation 3: V/f control with sensor 4: Dynamic torque vector control with sensor 5: Sensorless vector control 6: Vector control with speed sensor	N	Y	0	
b15	Motor 3 (No. of poles)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 2 to 128 poles	N	Y1Y2	4	
b16	(Rated capacity)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.01 to 1000 kW (when b39 = 0,2 to 5) 0.01 to 1000 HP (At b39 = 1)	N	Y1Y2	*6	
b17	(Rated current)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 2000 A	N	Y1Y2	*6	
b18	(Auto-tuning)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Tune the motor while it is stopped 2: Rotation tuning 5: Stop tuning (%R1, %X only)	N	N	0	
b19	(Online tuning)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Invalid 1: Valid	Y	Y	0	
b20	(No-load current)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 2000 A	N	Y1Y2	*6	
b21	(%R1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 50.00 %	Y	Y1Y2	*6	
b22	(%X)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 50.00 %	Y	Y1Y2	*6	
b23	(Slip compensation gain for driving)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 200.0 %	Y*	Y	100.0	
b24	(Slip compensation response time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.01 to 10.00 s	Y	Y1Y2	0.12	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
b25	(Slip compensation gain for braking)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 200.0 %	Y*	Y	100.0	
b26	(Rated slip frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 15.00 Hz	N	Y1Y2	*6	
b27	(Iron loss factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00 %	Y	Y1Y2	*6	
b28	(Iron loss factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00 %	Y	Y1Y2	0.00	
b29	(Iron loss factor 3)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00 %	Y	Y1Y2	0.00	
b30	(Magnetic saturation factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
b31	(Magnetic saturation factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
b32	(Magnetic saturation factor 3)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
b33	(Magnetic saturation factor 4)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
b34	(Magnetic saturation factor 5)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
b35	(Magnetic saturation expansion coefficient a)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
b36	(Magnetic saturation expansion coefficient b)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
b37	(Magnetic saturation expansion coefficient c)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
b38	Load inertia 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 99.99 s	Y	Y1Y2	0.000	
b39	Motor 3 selection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Motor characteristics 0 (Fuji standard IM, 8-series) 1: Motor characteristics 1 (HP rating IMs) 2: Motor characteristics 2 (Fuji dedicated motors for vector control) 3: Motor characteristics 0 (Refer to replacement material when using Fuji standard IM, 6-series) 4: Other IMs 5: Motor characteristics 5 (Fuji premium efficiency motors)	N	Y1Y2	5	
b40	Slip compensation 3 (Operating conditions selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Enable during acceleration/deceleration, enable at base frequency or higher 1: Disable during acceleration/deceleration, enable at base frequency or higher 2: Enable during acceleration/deceleration, disable at base frequency or higher 3: Disable during acceleration/deceleration, disable at base frequency or higher	N	Y	0	
b41	Output current fluctuation damping gain for motor 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 1.00	Y	Y	0.20	
b42	Motor/parameter switching 3 (Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Motor switching (Switching with motor 3) 1: Parameter switching (Switching with b code)	N	Y	0	
b43	Speed control 3 (Speed command filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 5.000 s	Y	Y	0.020	5-318
b44	(Speed detection filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 0.100 s	Y*	Y	0.005	
b45	(P gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.1 to 200.0 times	Y*	Y	10.0	
b46	(I integral time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.001 to 9.999 s, 999 (Cancel integral term)	Y*	Y	0.100	
b47	FF (Gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 99.99 s	Y*	Y	0.00	
b48	(Output filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 0.100 s	Y	Y	0.002	
b49	(Notch filter resonance frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1 to 500 Hz	Y	Y	200	
b50	(Notch filter attenuation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 40 dB	Y	Y	0	
b51	Cumulative run time of motor 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 99990 hours (Updated in 10 hour units) Change in cumulative motor run time (Reset possible)	N	N	0	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
b52	Startup count for motor 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 65535 times For adjustment when carrying out replacement	Y	N	0	
b53	Motor 3 (%X correction factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 300 %	Y	Y1Y2	100	
b54	(%X correction factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 300 %	Y	Y1Y2	100	
b55	(Torque current under vector control)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 2000 A	N	Y1Y2	*6	
b56	(Induced voltage factor under vector control)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 50 to 100%	N	Y1Y2	*6	
b57	(For adjustment by manufacturer *9)	0.000 to 20.000 s	Y	Y1Y2	*6	
b58	Speed control 3 (Notch filter width)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 3 (0: Narrow to 3: Wide)	Y	Y	2	
b60	Speed display coefficient 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 600.00 0.00: Use E50	Y	Y	0.00	
b61	Constant rate of feeding coefficient 3/ Speed display auxiliary coefficient 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 9999	Y	Y	1.000	
b62	Starting frequency 3 (Holding time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 10.00 s	Y	Y	0.00	
b63	Stop frequency 3	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0 Hz; 999 (Based on F25 setting)	Y	Y	999	
b64	(Detection method)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Actual speed/estimated speed 1: Reference speed 100: Follow setting of F38	N	Y	100	
b65	(Holding time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 10.00 s	Y	Y	0.00	
b66	Motor 3 (Thermistor operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: PTC (OH4 trips and inverter stops) 2: PTC (Output signal (THM) is out, and motor continues to run) 3: NTC (OH4 trips and inverter stops) 100: G1 compatible operation	Y	Y	100	
b67	(Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 5.00 V	Y	Y	0.35	
b98	(Function selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 255 Bit 0: Current limiter (F43, F44) (0: Disable, 1: Enable) Bit 1: Rotational direction control (H08) (0: Disable, 1: Enable) Bit 2: Non-linear V/f (H50 to H53, H65, H66) (0: Disable, 1: Enable) Bit 3: PID control (J01 to J62, H91) (0: Disable, 1: Enable) Bit 4: Brake signal (0: Disable, 1: Enable) Bit 5: Braking timer at the Startup (H195) (0: Disable, 1: Enable) Bit 6 to 7: Reserved	N	Y	0	5-287

*9: This is a function code for adjustment by the manufacturer. Do not access these function codes.
*10: 5.0 min for 22 kW or lower inverters, 10.0 min for 30 kW or higher inverters

■ r codes: Motor 4 Parameters (Motor 4 parameters)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
r01	Maximum output frequency 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 5.0 to 599.0 Hz	N	Y	60.0	-
r02	Base frequency 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 5.0 to 599.0 Hz	N	Y	50.0	
r03	Rated voltage at base frequency 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: AVR disable (output voltage proportional to power voltage) 80 to 240 V: AVR operation (200 V series) 160 to 500 V: AVR operation (400 V series)	N	Y2	200/400	
r04	Maximum output voltage 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 80 to 240 V: AVR operation (200 V series) 160 to 500 V: AVR operation (400 V series)	N	Y2		
r05	Torque boost 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 20.0 % (% value against base frequency voltage 4)	Y	Y	*2	
r06	Electronic thermal overload protection for motor 4 (Select motor characteristics)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1: Enable (for a general-purpose motor with self-cooling fan) 2: Enable (for an inverter-driven motor with separately powered cooling fan)	Y	Y	1	
r07	(Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 (disable), current value of 1 to 135 % of inverter rated current	Y	Y1Y2	*3	
r08	(Thermal time constant)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.5 to 75.0 min	Y	Y	*10	
r09	DC braking 4 (starting frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0 Hz	Y	Y	0.0	
r10	(Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 100 % (HHD specification), 0 to 80% (HND specification)	Y	Y	0	
r11	(Braking time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 (disable): 0.01 to 30.00 s	Y	Y	0.00	
r12	Starting frequency 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0 Hz	Y	Y	0.5	
r13	Load selection/ Auto torque boost/ Auto energy-saving operation 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Quadratic-torque load 1: Constant torque load 2: Auto torque boost 3: Auto energy-saving operation (quadratic-torque load) 4: Auto energy-saving operation (constant torque load) 5: Auto energy-saving operation with auto torque boost	N	Y	1	
r14	Drive control selection 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: V/f control without slip compensation 1: Dynamic torque vector control 2: V/f control with slip compensation 3: V/f control with sensor 4: Dynamic torque vector control with sensor 5: Sensorless vector control 6: Vector control with speed sensor	N	Y	0	
r15	Motor 4 (No. of poles)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 2 to 128 poles	N	Y1Y2	4	
r16	(Rated capacity)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.01 to 1000 kW (when r39 = 0,2 to 5) 0.01 to 1000 HP (At r39 = 1)	N	Y1Y2	*6	
r17	(Rated current)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 2000 A	N	Y1Y2	*6	
r18	(Auto-tuning)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Tune the motor while it is stopped 2: Rotation tuning 5: Stop tuning (%R1, %X only)	N	N	0	
r19	(Online tuning)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Invalid 1: Valid	Y	Y	0	
r20	(No-load current)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 2000 A	N	Y1Y2	*6	
r21	(%R1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 50.00 %	Y	Y1Y2	*6	
r22	(%X)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 50.00 %	Y	Y1Y2	*6	
r23	(Slip compensation gain for driving)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 200.0 %	Y*	Y	100.0	
r24	(Slip compensation response time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.01 to 10.00 s	Y	Y1Y2	0.12	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
r25	(Slip compensation gain for braking)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 200.0%	Y*	Y	100.0	
r26	(Rated slip frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 15.00 Hz	N	Y1Y2	*6	
r27	(Iron loss factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00 %	Y	Y1Y2	*6	
r28	(Iron loss factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00 %	Y	Y1Y2	0.00	
r29	(Iron loss factor 3)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 20.00 %	Y	Y1Y2	0.00	
r30	(Magnetic saturation factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
r31	(Magnetic saturation factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
r32	(Magnetic saturation factor 3)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
r33	(Magnetic saturation factor 4)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
r34	(Magnetic saturation factor 5)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
r35	(Magnetic saturation expansion coefficient a)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
r36	(Magnetic saturation expansion coefficient b)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
r37	(Magnetic saturation expansion coefficient c)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 300.0 %	Y	Y1Y2	*6	
r38	Load inertia 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 99.99 s	Y	Y1Y2	0.000	
r39	Motor 4 selection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Motor characteristics 0 (Fuji standard IM, 8-series) 1: Motor characteristics 1 (HP rating IMs) 2: Motor characteristics 2 (Fuji dedicated motors for vector control) 3: Motor characteristics 0 (Refer to replacement material when using Fuji standard IM, 6-series) 4: Other IMs 5: Motor characteristics 5 (Fuji premium efficiency motors)	N	Y1Y2	5	
r40	Slip compensation 4 (Operating conditions selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Enable during acceleration/deceleration, enable at base frequency or higher 1: Disable during acceleration/deceleration, enable at base frequency or higher 2: Enable during acceleration/deceleration, disable at base frequency or higher 3: Disable during acceleration/deceleration, disable at base frequency or higher	N	Y	0	
r41	Output current fluctuation damping gain for motor 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 1.00	Y	Y	0.20	
r42	Motor/parameter switching 4 (Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Motor switching (Switching with motor 4) 1: Parameter switching (Switching with r code)	N	Y	0	
r43	Speed control 4 (Speed command filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 5.000 s	Y	Y	0.020	5-318
r44	(Speed detection filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 0.100 s	Y*	Y	0.005	
r45	(P gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.1 to 200.0 times	Y*	Y	10.0	
r46	(I integral time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.001 to 9.999 s, 999 (Cancel integral term)	Y*	Y	0.100	
r47	FF (Gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 99.99 s	Y*	Y	0.00	
r48	(Output filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 0.100 s	Y	Y	0.002	
r49	(Notch filter resonance frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1 to 500 Hz	Y	Y	200	
r50	(Notch filter attenuation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 40 dB	Y	Y	0	
r51	Cumulative run time of motor 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 999900 hours (Updated in 10 hour units) Change in cumulative motor run time (Reset possible)	N	N	0	-

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
r52	Startup count for motor 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 65535 times For adjustment when carrying out replacement	Y	N	0	
r53	Motor 4 (%X correction factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 300 %	Y	Y1Y2	100	
r54	(%X correction factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 300 %	Y	Y1Y2	100	
r55	(Torque current under vector control)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 2000 A	N	Y1Y2	*6	
r56	(Induced voltage factor under vector control)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 50 to 100 %	N	Y1Y2	*6	
r57	(For adjustment by manufacturer *9)	0.000 to 20.000 s	Y	Y1Y2	*6	
r58	Speed control 4 (Notch filter width)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 3 (0: Narrow to 3: Wide)	Y	Y	2	
r60	Speed display coefficient 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 600.00 0.00: Use E50	Y	Y	0.00	
r61	Constant rate of feeding coefficient 4/ Speed display auxiliary coefficient 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 9999	Y	Y	1.000	
r62	Starting frequency 4 (Holding time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 10.00 s	Y	Y	0.00	
r63	Stop frequency 4	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0 Hz; 999 (Based on F25 setting)	Y	Y	999	
r64	(Detection method)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Actual speed/estimated speed 1: Reference speed 100: Follow setting of F38	N	Y	100	
r65	(Holding time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 10.00 s	Y	Y	0.00	
r66	Motor 4 (Thermistor operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: PTC (OH4 trips and inverter stops) 2: PTC (Output signal (THM) is out, and motor continues to run) 3: NTC (OH4 trips and inverter stops) 100: G1 compatible operation	Y	Y	100	
r67	(Operation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 5.00 V	Y	Y	0.35	
r98	(Function selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 255 Bit 0: Current limiter (F43, F44) (0: Disable, 1: Enable) Bit 1: Rotational direction control (H08) (0: Disable, 1: Enable) Bit 2: Non-linear V/f (H50 to H53, H65, H66) (0: Disable, 1: Enable) Bit 3: PID control (J01 to J62, H91) (0: Disable, 1: Enable) Bit 4: Brake signal (0: Disable, 1: Enable) Bit 5: Braking timer at the Startup (H195) (0: Disable, 1: Enable) Bit 6 to 7: Reserved	N	Y	0	

*9: This is a function code for adjustment by the manufacturer. Do not access these function codes.
*10: 5.0 min for 22 kW or lower inverters, 10.0 min for 30 kW or higher inverters

■ J codes: Application Functions 1 (Application function 1)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
J01	PID control (Mode selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Process (normal operation) 2: Process (inverse operation) 3: Speed control (Dancer)	N	Y	0	5-289
J02	(Remote command)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Keypad key operation (△, ▽ keys) 1: PID command 1 (Analog input: Terminals [12], [C1] and [V2]) 3: UP/DOWN 4: Communication	N	Y	0	5-290
J03	P (Gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 30.000 times	Y	Y	0.100	5-297
J04	I (Integral time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 3600.0 s	Y	Y	0.0	
J05	D (Differential time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 600.00 s	Y	Y	0.00	
J06	(Feedback filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 900.0 s *1	Y	Y	0.5	
J08	(Pressurization frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 599.0 Hz	Y	Y	0.0	
J09	(Pressurization time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 60 s	Y	Y	0	
J10	(Anti-reset windup)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 200 %	Y	Y	200	5-302
J11	(Select Warning output)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Warning caused by process command value 1: Warning caused by process command value with hold 2: Warning caused by process command value with latch 3: Warning caused by process command value with hold and latch 4: Warning caused by PID error value 5: Warning caused by PID error value with hold 6: Warning caused by PID error value with latch 7: Warning caused by PID error value with hold and latch	Y	Y	0	5-302
J12	(Upper limit of warning (AH))	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -100 % to 100 %	Y	Y	100	
J13	(Lower limit of warning (AL))	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -100 % to 100 %	Y	Y	0	
J15	(Sleep frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 (Disable), 1.0 to 599.0 Hz	Y	Y	0.0	5-303
J16	(Sleep timer)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 60 s	Y	Y	30	
J17	(Wakeup frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 599.0 Hz	Y	Y	0.0	
J18	(Upper limit of PID process output)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -150 % to 150 %, 999 (Based on F15)	Y	Y	999	5-304
J19	(Lower limit of PID process output)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -150 % to 150 %, 999 (Based on F16)	Y	Y	999	
J21	Condensation prevention (Duty)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1 to 50 %	Y	Y	1	
J22	Switch to commercial power supply sequence	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Standard sequence 1: Inverter automatic switching sequence	N	Y	0	
J23	PID control (Wakeup level of PID error feedback deviation)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 100.0 %	Y	Y	0.0	5-304
J24	(Wakeup timer)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 3600 s	Y	Y	0	
J57	(Dancer position set point)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -100 to 0 to 100 %	Y	Y	0	5-305
J58	(Detection width of dancer position error)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable switching PID constant 1 to 100 %: Manually set value	Y	Y	0	5-306
J59	P (Gain) 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 30.000 times	Y	Y	0.100	
J60	I (Integral time) 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 3600.0 s	Y	Y	0.0	
J61	D (Differential time) 2	V/f PGV/f SLV PGV PM SLV PM PGV TRQ	Y	Y	0.00	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		0.00 to 600.00 s				
J62	(PID control block selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 3 Bit 0: Select polarity compensation for PID output/error 0=Plus (Addition); 1=Minus (Subtraction) Bit 1: Select compensation factor for PID output 0=Ratio (relative to the main setting) 1=Speed command (relative to maximum frequency)	N	Y	0	5-306
J63	Overload stop (Item selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Torque, 1: Current	Y	Y	0	5-307
J64	(Detection level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 20 to 200 %	Y	Y	100	
J65	(Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Decelerate to stop 2: Coast to stop V/f PGV/f SLV PGV PM SLV PM PGV TRQ 3: Contacting the stopper	N	Y	0	
J66	(Operation mode)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: During constant speed running and deceleration 1: During constant speed running 2: Anytime	Y	Y	0	
J67	(Timer)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 600.00 s	Y	Y	0.00	
J68	Brake control signal (Brake-release current)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 300.00 %	Y	Y	100.00	5-309
J69	(Brake-release frequency/speed)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 25.0 Hz	Y	Y	1.0	
J70	(Brake-release timer)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 5.000 s	Y	Y	1.000	
J71	(Brake-applied frequency/speed)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 25.0 Hz	Y	Y	1.0	
J72	(Brake-applied timer)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 5.000 s	Y	Y	1.000	

*1 When speed control (dancer) is selected (J01 ≠ 3 → = 3), the J06 setting value automatically changes to 0.0 s. To specify the filter time constant in detail, apply filter time constants for analog input (C33, C38 and C43) with J06 = 0.0. When speed control (dancer) is not selected (J01 = 3 → ≠ 3), the J06 setting value automatically changes to 0.5 s. Set J06 after setting J01.

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
J90	Overload stop (Stopper contact) (Torque limiting P (Gain))	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 2.000, 999	Y	Y	999	5-309
J91	(Torque limiting I (Integral time))	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.001 to 9.999s, 999	Y	Y	999	
J92	(Current command level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 50.0 to 150.0 %	Y	Y	100.0	
J95	Brake control signal (Brake-release torque)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 300.00 %	Y	Y	100.00	5-309
J96	(Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 127 Bit 0: Speed detection / Speed command selection (0: Speed detection value, 1: Speed command value) Bit 1: Reserved Bit 2: Not used Bit 3: Not used Bit 4: Brake-apply condition (0: Regardless of run command status (ON or OFF), 1: Only when run command is OFF) Bit 5: Not used Bit 6: Stop condition at Postion control (0 : Break signal OFF ; 1 : Break signal ON)	Y	Y	0	5-309
J97	Servo lock (Gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 9.999 times	Y	Y	0.010	5-313
J98	(Completion timer)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 1.000 s	Y	Y	0.100	
J99	(Completion range)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 9999 pulses	Y	Y	10	
J105	PID control (Display unit)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 92 0: Inherit (PID Control 1 feedback unit) 1: No unit 2: % 4: r/min 7: kW 8: HP 10: mm/s 11: mm/m 12: mm/h 13: m/s 14: m/min 15: m/h 16: FPS 17: FPM 18: FPH [Flow] 20: m^3/s 21: m^3/min 22: m^3/h 23: L/s 24: L/min 25: L/h 26: GPS 27: GPM 28: GPH 29: CFS 30: CFM 31: CFH 32: kg/s 33: kg/m 34: kg/h 35: lb/s 36: lb/m 37: lb/h 38: AF/Y [Pressure] 40: Pa 41: kPa 42: MPa 43: mbar 44: bar 45: mmHg 46: psi PSI (Pounds per square inch absolute) 47: mWG 48 inWG 49: inHg 50: WC 51: FT WG [Temperature] 60: K 61: °C 62: °F [Distance] 65: N·m 66: lb ft 70: mm	N	Y	0	5-315

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		71: cm 72: m 73: km 74: in 75: Ft 76: Yd 77: mi [Concentration] 80: ppm [Other amounts] 90: m3 91: L 92: GAL				
J106	PID control (Maximum scale)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -999.0 to 0.00 to 9990.0	N	Y	100.00	5-315
J107	(minimum scale)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -999.0 to 0.00 to 9990.0	N	Y	0.00	
J108	(Auto-tuning)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: For short time response 2: For long time response * If tuning ends abnormally, the following value is set for J108. 100: Tuning cancel 101: Mode unmatch 102: MV insufficient 103: MV excessive 104: MV change 105: PV excessive or insufficient 106: PV unstable 107: Other	Y	N	0	5-316
J109	(Operation frequency when tuning)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 10 to 100 %			10	
J136	(Multistep command 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -999.0 to 0.00 to 9990.0	Y	Y	0.00	5-317
J137	(Multistep command 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -999.0 to 0.00 to 9990.0	Y	Y	0.00	
J138	(Multistep command 3)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -999.0 to 0.00 to 9990.0	Y	Y	0.00	

■ d codes: Application Functions 2 (Application functions 2)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
d01	Speed control 1 (Speed command filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 5.000 s If F42=15, 16, 0.200 s is automatically set.	Y	Y	0.020	5-318
d02	(Speed detection filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 0.100 s If F42=15, 16, 0.025 s is automatically set.	Y	Y	0.005	
d03	P (Gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.1 to 200.0 times If F42=15, 16, 2.0 times is automatically set.	Y	Y	10.0	
d04	I (Integral time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.001 to 9.999 s; 999: Disable integral term If F42=15, 16, 0.600 s is automatically set.	Y	Y	0.100	
d05	FF (Gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 99.99 s	Y	Y	0.00	
d06	(Output filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 0.100 s If F42=15, 16, 0.000 s is automatically set.	Y	Y	0.002	
d07	(Notch filter resonance frequency)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1 to 500 Hz	Y	Y	200	
d08	(Notch filter attenuation level)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 40 dB	Y	Y	0	
d09	Speed control (JOG) (Speed command filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 5.000 s	Y	Y	0.020	5-322
d10	(Speed detection filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 0.100 s	Y	Y	0.005	
d11	P (Gain)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.1 to 200.0 times	Y	Y	10.0	
d12	I (Integral time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.001 to 9.999 s, 999: Disable integral term	Y	Y	0.100	
d13	(Output filter)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 0.100 s	Y	Y	0.002	
d14	PG option Ch2 (Pulse train input) (Pulse input format)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Frequency and direction 1: Forward and reverse pulse 2: Quadrature A/B signal(B phase lead) 3: Quadrature A/B signal(A phase lead) 4: A, B phase 90° phase difference (B phase lead) UVW signal (for synchronous motors)	N	Y	2	5-323
d15	(Encoder pulse resolution)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0014 to EA60(Hexadecimal format), 20 to 60000(Decimal format)	N	Y	0400 (1024)	
d16	(Pulse scaling factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1 to 32767	Y	Y	1	
d17	(Pulse scaling factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1 to 32767	Y	Y	1	
d18	(Filter time constant)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 5.000 s	Y	Y	0.005	
d21	Speed mismatch error (Detection width)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 50.0 %	Y	Y	10.0	5-325
d22	(Detection timer)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 10.00 s	Y	Y	0.50	
d23	Speed mismatch error selection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Continue to run 1 1: Stop with alarm 1 2: Stop with alarm 2 3: Continue to run 2 4: Stop with alarm 3 5: Stop with alarm 4	N	Y	2	
d24	Zero speed control	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable at startup 1: Enable at startup 2: Zero speed control not possible	N	Y	0	5-125
d25	ASR switching time	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 1.000 s	Y	Y	0.000	5-326
d27	Servo lock (Gain switching time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 1.000 s	Y	Y	0.000	
d28	(Gain 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 9.999 times	Y	Y	0.010	
d29	Speed control 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ	Y	Y	2	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
	(Notch filter width)	0 to 3 (0: Narrow to 3: Wide)				
d30	ASR gain setting (coming soon)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: ASR gain setting	N	Y	0	
d32	Speed limit / Overspeed detection level (Level 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 110 %	Y	Y	100	5-326
d33	(Level 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 110 %	Y	Y	100	
d35	Over speed detection level	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 120%, 999: Based on d32, d33	Y	Y	999	5-326
d41	Application specific function selection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable (Normal control) 1: Enable (Constant surface speed control) 2: Master-follower operation (Immediate synchronization mode at the start, without Z phase) 3: Master-follower operation (Master-follower operation) 4: Master-follower operation (Immediate synchronization mode at the start, with Z phase)	N	Y	0	5-327
d51	For adjustment by manufacturer *9	-500 to 500	N	Y	*14	5-330
d52	For adjustment by manufacturer *9	-500 to 500	N	Y	*14	
d53	For adjustment by manufacturer *9	-500 to 500	N	Y	*14	
d54	For adjustment by manufacturer *9	-500 to 500	N	Y	*14	
d55	For adjustment by manufacturer *9	0000 to 00FF (Display in hexadecimal)	N	Y	0000	
d59	PG option Ch1 / Terminal [X] (Pulse train input) (Pulse input format)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Pulse train sign / Pulse train input 1: Forward rotation pulse / Reverse rotation pulse 2: A, B phase 90° phase difference (B phase lead) 3: A, B phase 90° phase difference (A phase lead)	N	Y	0	5-336
d60	(Encoder pulse resolution)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0014 to EA60(Hexadecimal format), 20 to 60000(Decimal format)	N	Y	0400 (1024)	
d61	(Filter time constant)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.000 to 5.000 s	Y	Y	0.005	5-330
d62	(Pulse scaling factor 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1 to 32767	Y	Y	1	
d63	(Pulse scaling factor 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1 to 32767	Y	Y	1	
d67	Starting characteristic (Auto search mode: speed sensorless vector control)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable (Do not set to 0 if performing restart after momentary power failure. Failure to observe this could result in motor damage.) 1: Enable (Only at restart after momentary power failure) 2: Enable (At restart after momentary power failure and at normal start) If F42 = 15, 2 is automatically set.	N	Y	1	5-330 5-330
d68	For adjustment by manufacturer *9	0.0 to 10.0	N		4.0	5-330
d69	For adjustment by manufacturer *9	30.0 to 100.0	Y	Y	30.0	
d70	Speed control limiter	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 100.00 %	Y	Y	100.00	5-330

*9: This is a function code for adjustment by the manufacturer. Do not change.
*14: The factory default is set based on capacity. 5 for 3.7 kW or lower inverters, 10 for 5.5 to 22 kW inverters, 20 for 30 kW or higher inverters

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
d71	Master follower control (Main speed regulator gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 1.50 times	Y	Y	1.00	5-331
d72	(APR gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 200.00 times	Y	Y	15.00	
d73	(APR output +side limiter)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 20 to 200 %; 999: Disable	Y	Y	999	
d74	(APR output -side limiter)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 20 to 200 %: Limiter level 999: Disable	Y	Y	999	
d75	(Z phase alignment gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 10.00 times	Y	Y	1.00	
d76	(Offset angle between master and follower)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 359 deg.	Y	Y	0	
d77	(Synchronous completion detection angle)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 359 deg.	Y	Y	15	
d78	(Deviation overflow detection width)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 65535 (10 pulse units)	Y	Y	65535	
d79	For adjustment by manufacturer *9	0, 80 to 240 (200 V series), 160 to 500 (400 V series), 999	N	Y2	999	
d80	Motor 1 (Synchronous motor magnetic pole position draw-in frequency)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.1 to 10.0 Hz	Y	Y	1.0	
d81	For adjustment by manufacturer *9	0 to 1	Y	Y	1	
d82	Magnetic flux weakening control	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable 1: Enable	Y	Y	1	
d83	Magnetic flux weakening lower limit value	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 10 to 70 %	Y	Y	40	
d84	For adjustment by manufacturer *9	0 to 20	Y	Y	5	
d85	For adjustment by manufacturer *9	0 to 200	Y	Y	95	
d86	Acceleration/deceleration output filter	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.000 to 5.000 s	Y	Y	0.000	
d88	For adjustment by manufacturer *9	0.00 to 10.00, 999	Y	Y	999	
d89	Motor 1 (Synchronous motor high-efficiency control)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 1	N	Y	1	
d90	Magnetic flux level during deceleration	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 100 to 300 %	Y	Y	120	5-358
d91	For special adjustment	0.00 to 2.00, 999	Y	Y	999	5-358
d92	For special adjustment	0, 0.01 to 3.00	Y	Y	0.00	
d93	For adjustment by manufacturer *9	0.00 to 10.00, 999	Y	Y	999	
d94	For adjustment by manufacturer *9	0.00 to 10.00, 999	Y	Y	999	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
d95	For adjustment by manufacturer *9	0.00 to 10.00, 999	Y	Y	999	
d96	For adjustment by manufacturer *9	-50.0 to 50.0, 999	Y	Y	999	
d97	For adjustment by manufacturer *9	-50.0 to 50.0, 999	Y	Y	999	
d98	For special adjustment	0 to 65535	Y	Y	0	
d99	Extension function 1	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0000 to FFFF (Display in hexadecimal) Bit 0: For adjustment by manufacturer *9 Bit 1: For adjustment by manufacturer *9 Bit 2: For adjustment by manufacturer *9 Bit 3: JOG operation from communication (0: Disable; 1: Enable) Bit 4: For adjustment by manufacturer *9 Bit 5, 6, 7: Not used Bit 8: For adjustment by manufacturer *9 Bit 9: For adjustment by manufacturer *9 Bit 10: H30 definition switching	Y	Y	0000	5-359
d120	Brake signal (Brake-release current) (REV)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 300.00 %, 999:depends on the setting value of J68	Y	Y	999	
d121	Brake control signal (Brake-release frequency/speed) (REV)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 25.0 Hz, 999:depends on the setting value of J69	Y	Y	999	
d122	Brake control signal (Brake-release timer) (REV)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 5.000 s, 999:depends on the setting value of J70	Y	Y	999	
d123	Brake signal (Brake-release torque) (REV)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 300.00 %, 999:depends on the setting value of J95	Y	Y	999	
d124	Brake control signal (Brake-apply frequency/speed) (REV)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 25.0 Hz, 999:depends on the setting value of J71	Y	Y	999	
d125	Brake control signal (Brake-apply timer) (REV)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 5.000 s, 999	Y	Y	999	
d150	PID control (Dancer upper limit warning position)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -100.00 to 100.00 %	Y	Y	100.00	
d151	(Dancer lower limit warning position)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -100.00 to 100.00 %	Y	Y	0.00	
d152	(Line speed lower limit for dancer PID output)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 599.0 Hz	Y	Y	0.0	
d153	Line speed control (Line speed compensation gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 200.0 %	Y	Y	100.0	
d154	(Selector switch)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 1 Bit 0: Winding diameter compensation (0: No, 1: Yes)	N	Y	0	
d158	Winding diameter calculation (Moving average count)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 100	Y	Y	0	
d159	(Dead zone)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.000 to 10.000 %	Y	Y	0.001	
d160	(Calculation gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 1.00	Y	Y	0.10	
d161	(Compensation gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.000 to 10.000	Y	Y	1.000	
d162	(Low-speed line speed ratio)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y	Y	3.00	
d163	(Minimum winding diameter)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 to 65535 mm (3,300 to 4,900 ft)	Y	Y	100	
d164	(Maximum winding diameter)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 to 65535 mm (3,300 to 4,900 ft)	Y	Y	1100	
d165	(Initial winding diameter)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 to 65535 mm (3,300 to 4,900 ft)	Y	Y	700	
d166	(FM output gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 100.0	Y	Y	20.0	
d167	Line speed command (Maximum value)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0: Disable 0.1 to 6553.5 m/min	N	Y	0.0	
d168	(Acceleration time)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 6000 s	Y	Y	*11	
d169	(Deceleration time)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 6000 s	Y	Y	*11	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
d170	After detected load compensation (dedicated monitor function code)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -327.68 to 327.67 %	-	N	-	
d171	Load conversion gain (hoisting)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 200.00 %	Y	Y	100.00	
d172	Load conversion offset (hoisting)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -100.0 to 100.0 %	Y	Y	0.0	
d173	Load conversion gain (lowering)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -200.00 to 200.00 %	Y	Y	100.00	
d174	Load conversion offset (lowering)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -100.0 to 100.0 %	Y	Y	0.0	
d175	Light load speed multiplying factor (hoisting)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 100.0 to 300.0 %, 999	Y	Y	100.0	
d176	Light load speed multiplying factor (lowering)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 100.0 to 300.0 %, 999	Y	Y	100.0	
d177	Medium load speed multiplying factor (hoisting)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 100.0 to 300.0 %,999	Y	Y	100.0	
d178	Medium load speed multiplying factor (lowering)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 100.0 to 300.0 %, 999	Y	Y	100.0	
d179	Speed multiplying factor safety factor	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1.0 to 4.0	Y	Y	1.0	
d180	Load judgment delay time (hoisting)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 10.00 s	Y	Y	2.00	
d181	Load judgment delay time (lowering)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 10.00 s	Y	Y	2.00	
d182	Light load detection level (hoisting)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 5.0 to 100.0 %, 999	Y	Y	25.0	
d183	Light load detection level (lowering)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 5.0 to 100.0 %, 999	Y	Y	25.0	
d184	Heavy load detection level (hoisting)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 5.0 to 100.0 %, 999	Y	Y	25.0	
d185	Heavy load detection level (lowering)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 5.0 to 100.0 %, 999	Y	Y	25.0	
d186	Overload judgment delay time	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 10.00 s	Y	Y	0.50	
d187	Overload detection level	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 5.0 to 250.0 %, 999	Y	Y	999	
d188	Overload detection monitor	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -327.68 to 327.67 %	-	N	-	
d189	Hoist function auxiliary setting	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0000 to 00FF (Display in hexadecimal) Bit 0: Medium load speed multiplying factor selection (0: Fixed multiplying factor, 1: Proportional to load)	Y	Y	0000	
d190	For adjustment by manufacturer *9	0 to 150	Y	Y	0	
d192	For adjustment by manufacturer *9	0.00 to 10.00	Y	Y	0.30	
d193	Special adjustment (Torque scaling factor for high load)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 30.0 %, 999 (Auto)	Y*	Y	999	
d194	Special adjustment (Torque scaling factor for high load (for driving))	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 30.0 %, 999 (Same value as d193)	Y*	Y	999	
d195	Special adjustment (Torque scaling factor for high load (for braking))	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 30.0 %, 999 (Same value as d193)	Y*	Y	999	
d196	Special adjustment (Torque scaling effective speed for high load (for driving))	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 50 times	Y	Y	4	
d197	Special adjustment (Torque scaling effective speed for high load (for braking))	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 50 times	Y	Y	4	
d198	For adjustment by manufacturer *9	0 to 65535	Y	Y	0	
d199	For adjustment by manufacturer *9	0000 to 00FF (Display in hexadecimal)	N	Y	0000	
d201	Position feed forward gain	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00: Disables feed forward 0.01 to 1.50	Y*	Y	0.00	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
d202	Position feed forward command filter	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.000 to 5.000 s	Y*	Y	0.500	
d203	Position regulator gain 1 (Low-speed range)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.1 to 300.0	Y*	Y	1.0	
d204	Position regulator gain 2 (High-speed range)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.1 to 300.0	Y*	Y	1.0	
d205	Position regulator gain switching frequency	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 599.0 Hz	Y	Y	0.0	
d206	Electronic gear ratio denominator	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 to 65535	N	Y	1	
d207	Electronic gear ratio numerator	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 to 65535	N	Y	1	
d208	Orientation mode selection	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: With shortcut (Run command direction and with reverse rotation) 1: Without shortcut (Run command direction)	N	Y	1	
d209	Homing mode selection	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0000 to 00FF (Display in hexadecimal) Bit 0: Homing starting direction 0: Forward rotation direction 1: Reverse rotation direction Bit 1: Homing direction 0: Forward rotation direction 1: Reverse rotation direction Bit 2: Homing OT operation selection 0: Reverse rotation following OT detection 1: Stop following OT detection (homing aborted) Bit 3: Home position LS timing selection 0: ON edge detection 1: OFF edge detection Bit 7: Z-phase compensation 0: Disable 1: Enable	N	Y	0000	
d210	Homing stopper detection time	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.000 to 10.000 s	Y	Y	0.000	
d211	Homing reference signal	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Encoder Z-phase 1: Home position LS 2: +OT 3: -OT	N	Y	1	
d212	Homing shift reference signal	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Encoder Z-phase 1: Home position LS enable edge (wire to XZ for ORT) 2: +OT (enable only when performing position control) 3: -OT (enable only when performing position control) 4: Stopper (stopper contact)	N	Y	0	
d213	Homing frequency/orientation frequency	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.1 to 599.0 Hz	Y	Y	5.0	
d214	Homing creep frequency	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.1 to 599.0 Hz	Y	Y	0.5	
d215	Homing deceleration time/orientation deceleration time	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 6000 s	Y	Y	6.00	
d216	Positioning data teaching (Positioning data number designation)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable 1 to 8: Enable (writes feedback current position written to positioning data 1 to 8)	Y	Y	0	
d217	Homing shift teaching	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable 1: Enable (Calculate the position of Z phase and machine origin at orientation from the Z phase distance and preset amount, and write to d242 and d243.)	Y	Y	0	
d218	Software OT detection position teaching (+/- designation)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable 1: Enable (Writes feedback current position to +OT detection position d225, d226) 2: Enable (Writes feedback current position to -OT detection position d227, d228)	Y	N	0	
d219	Pass point detection position teaching (Pass point position designation)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable 1: Enable (Writes feedback current position to pass point 1 d229, d230) 2: Enable (Writes feedback current position to pass point 2 d231, d232)	Y	N	0	
d220	Feedback current position memory selection	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Do not memorize 1: Memorize following undervoltage	Y	Y	0	
d221	Position clear signal (P-CLR) operation selection	V/f PGV/f SLV PGV PMSLV PMPGV TRQ	Y	Y	0	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		0: Clear at active edge (positive logic/negative logic OFF → ON) 1: Clear at level (positive logic/negative logic ON)				
d222	Software OT operation selection	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable software OT (Endless) 1: Enable software OT (Limit target position with software OT) 2: Enable software OT (Emergency stop when software OT detected)	Y	Y	0	
d223	Deviation detection overflow value (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	
d224	Deviation detection overflow value (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value * Disable when 0 for both d223, d224	Y	Y	0	
d225	+ software OT detection position (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9999 to 9999 User value	N	Y	9999	
d226	+ software OT detection position (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	N	Y	9999	
d227	- software OT detection position (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9999 to 9999 User value	N	Y	-9999	
d228	- software OT detection position (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	N	Y	9999	
d229	Pass point detection position 1 (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9999 to 9999 User value	Y	Y	0	
d230	Pass point detection position 1 (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	
d231	Pass point detection position 2 (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9999 to 9999 User value	Y	Y	0	
d232	Pass point detection position 2 (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	
d237	Positioning data type (INC/ABS switching)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Handle positioning data as absolute position (ABS) 1: Handle positioning data as travel (INC)	Y	Y	0	
d238	Positioning data selection signal agreement timer	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.000 to 0.100 s	Y	Y	0.000	
d239	In-position range	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	1	
d240	Preset position (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9999 to 9999 User value	Y	Y	0	
d241	Preset position (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	
d242	Homing shift (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	
d243	Homing shift (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	
d244	Positioning data 1 (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9999 to 9999 User value	Y	Y	0	
d245	Positioning data 1 (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	
d246	Positioning data 2 (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9999 to 9999 User value	Y	Y	0	
d247	Positioning data 2 (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	
d248	Positioning data 3 (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9999 to 9999 User value	Y	Y	0	
d249	Positioning data 3 (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	
d250	Positioning data 4 (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9999 to 9999 User value	Y	Y	0	
d251	Positioning data 4 (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	
d252	Positioning data 5 (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9999 to 9999 User value	Y	Y	0	
d253	Positioning data 5 (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	
d254	Positioning data 6 (High order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9999 to 9999 User value	Y	Y	0	
d255	Positioning data 6 (Low order)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 9999 User value	Y	Y	0	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
d256	Positioning data 7 (High order)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -9999 to 9999 User value	Y	Y	0	
d257	Positioning data 7 (Low order)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 9999 User value	Y	Y	0	
d258	Positioning data 8 (High order)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -9999 to 9999 User value	Y	Y	0	
d259	Positioning data 8 (Low order)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 9999 User value	Y	Y	0	
d276	Positioning data (Infinite direction)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Forward rotation direction 2: Reverse rotation direction	Y	Y	0	
d277	Positioning data communication command selection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable positioning data communication command 1: Enable positioning data communication command	Y	Y	0	
d280	Forced deceleration operation selection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Servo lock after deceleration stop 1: Er6 alarm after deceleration stop	Y	Y	0	
d296	Command current position monitor (High order)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -9999 to 9999 User value	-	N	-	
d297	Command current position monitor (Low order)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 9999 User value	-	N	-	
d298	Feedback current position monitor (High order)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -9999 to 9999 User value	-	N	-	
d299	Feedback current position monitor (Low order)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 9999 User value	-	N	-	

*9: This is a function code for adjustment by the manufacturer. Do not access these function codes.
*11: 6.00 s for 22 kW or lower inverters, 20.00 s for 30 kW or higher inverters

■ U codes: Application Functions 3 (Customizable logic)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
U00	Customizable logic (Mode selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Disable 1: Enable (Customizable logic operation) ECL alarm occurs when the value is changed from 1 to 0 during operation.	Y	Y	0	5-402
U01	Customizable logic Step 1 (Block selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ [Digital] 0: No function assigned 10 to 15: Through output + general-purpose timer (*) 20 to 25: Logical AND + general-purpose timer (*) 30 to 35: Logical OR + general-purpose timer (*) 40 to 45: Logical XOR + general-purpose timer (*) 50 to 55: Set priority flip-flop + general-purpose timer (*) 60 to 65: Reset priority flip-flop + general-purpose timer (*) 70, 72, 73: Rising edge detector + general-purpose timer (*) 80, 82, 83: Falling edge detector + general-purpose timer (*) 90, 92, 93: Rising & falling edges detector + general-purpose timer (*) 100 to 105: Hold + general-purpose timer (*) 110: Increment counter 120: Decrement counter 130: Timer with reset input 140 to 145: D flip-flop + general-purpose timer (*) 150 to 155: T flip-flop + general-purpose timer (*) (*) General-purpose timer function (least significant digit 0 to 5) _0: No timer _1: On-delay timer _2: Off-delay timer _3: One-shot pulse output _4: Retriggerable timer _5: Pulse train output [Analog] 2001: Adder 2002: Subtracter 2003: Multiplier 2004: Divider 2005: Limiter 2006: Absolute value 2007: Inverting adder 2008: Variable limiter 2009: Linear function 2010: Remainder 2051 to 2059: Comparator 1 to 9 2071: Window comparator 1 2072: Window comparator 2 2101: High selector 2102: Low selector 2103: Average of inputs 2151: Function code (S13 loading) 2201: Clip and map function 2202: Scale converter 3001: Secondary function 3002: Square root function [Digital + analog] 4001: Hold 4002: Inverting adder switching 4003: Selector 1 4004: Selector 2 4005: LPF (Low pass filter) 4006: Rate limiter with enable 5000: Selector 3 5100: Selector 4 6001: Reading function code 6002: Writing function code 6003: Temporary change of function code 6004: Function code link 6011: Bit extraction (S code) 6012: Bit extraction (M code) 6013: Bit extraction (W code) 6014: Bit extraction (X code) 6015: Bit extraction (Z code) 6101: PID dancer output gain frequency	N	Y	0	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
U02 U03	Customizable logic Step 1 (Input 1) (input 2)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ Some signals are invalid depending on the control method. Refer to E20 and E61 for details. [Digital] 0 (1000): Inverter running 1 (1001): Frequency (speed) arrival "FAR" 2 (1002): Frequency (speed) detected "FDT" 3 (1003): Under voltage detected (inverter stopped) "LU" 4 (1004): Detected torque polarity "B/D" 5 (1005): Inverter output limiting "IOL" 6 (1006): Auto-restarting after momentary power failure "IPF" 7 (1007): Motor overload early warning "OL" 8 (1008): Keypad operation "KP" 10 (1010): Inverter ready to run "RDY" 11 (1011): Commercial/inverter power supply switching "SW88" 12 (1012): Commercial/inverter power supply switching "SW52-2" 13 (1013): Commercial/inverter power supply switching "SW52-1" 15 (1015): Switch MC on the input power lines "AX" 16 (1016): Pattern operation stage transition "TU" 17 (1017): Pattern operation cycle completed "TO" 18 (1018): Pattern operation stage 1 "STG1" 19 (1019): Pattern operation stage 2 "STG2" 20 (1020): Pattern operation stage 4 "STG4" 21 (1021): Frequency (speed) arrival 2 "FAR2" 22 (1022): Inverter output limiting with delay "IOL2" 25 (1025): Cooling fan in operation "FAN" 26 (1026): Auto-resetting "TRY" 28 (1028): Heat sink overheat early warning "OH" 29 (1029): Master-follower operation complete "SY" 30 (1030): Lifetime alarm "LIFE" 31 (1031): Frequency (speed) detected 2 "FDT2" 33 (1033): Reference loss detected "REF OFF" 35 (1035): Inverter outputting "RUN 2" 36 (1036): Overload prevention controlling "OLP" 37 (1037): Current detected "ID" 38 (1038): Current detected 2 "ID2" 39 (1039): Current detected 3 "ID3" 41 (1041): Low current detected "IDL" 42 (1042): PID alarm "PID-ALM" 43 (1043): Under PID control "PID-CTL" 44 (1044): Under sleep mode of PID control "PID-STP" 45 (1045): Low torque detected "U-TL" 46 (1046): Torque detected 1 "TD1" 47 (1047): Torque detected 2 "TD2" 48 (1048): Motor 1 selected "SWM1" 49 (1049): Motor 2 selected "SWM2" 50 (1050): Motor 3 selected "SWM3" 51 (1051): Motor 4 selected "SWM4" 52 (1052): Forward rotation "FRUN" 53 (1053): Reverse rotation "RRUN" 54 (1054): Under remote mode "RMT" 56 (1056): Motor overheat detected by thermistor "THM" 57(1057): Mechanical brake control "BRKS" 58 (1058): Frequency (speed) detected 3 "FDT3" 59(1059): Terminal [C1] wire break detection "C1OFF" 70 (1070): Speed valid "DNZS" 71 (1071): Speed agreement "DSAG" 72 (1072): Frequency (speed) arrival 3 "FAR3" 76 (1076): Speed mismatch error detected "PG-ERR" 77 (1077): Low DC link bus voltage detection "U-EDC" 79 (1079): During decelerating at momentary power failure "IPF2" 82 (1082): Positioning complete "PSET" 84 (1084): Maintenance timer counted up "MNT" 87 (1087): Frequency arrival and detected "FARFDT" 89(1089): Magnetic pole position detection complete signal "PTD" 90 (1090): Alarm content 1 "AL1" 91 (1091): Alarm content 2 "AL2" 92 (1092): Alarm content 4 "AL4" 93 (1093): Alarm content 8 "AL8" 95(1095): Forced operation "FMRUN" 98 (1098): Light alarm "L-ALM" 99 (1099): Alarm output "ALM" 100 : No assignment "NONE" 101 (1101): EN circuit failure detected "DECF" 102 (1102): EN terminal input OFF "ENOFF" 105 (1105): Braking transistor broken "DBAL" 125 (1125): Watt-hour pulse output "POUT" 131(1131): Speed limiting "S-LIM" 132 to 1132: Torque limit level "T-LIM" 133 (1133): Low current detection "IDL2" 135(1135): Dancer upper limit position warning signal "D-UPFL" 136(1136): Dancer lower limit position warning signal "D-DNFL" 137(1137): Dancer position limit warning signal "D-FL" 151 (1151): Overtravel detection "OT-OUT" 152 (1152): Forced stop detection "STOP-OUT" 153 (1153): Pass point detection 1 "PPAS1" 154 (1154): Pass point detection 2 "PPAS2" 158 (1158): Overload detection "LLIM" 159 (1159): Performing light load automatic double speed operation "LAC" 251 (1251): M/Shift key ON/OFF status "MTGL" 2001 to 2260(3001 to 3260): Customizable logic step output 1 to 260 SO01" to "SO260"		Y	100	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		4001(5001): Terminal [X1] input "X1" 4002(5002): Terminal [X2] input "X2" 4003(5003): Terminal [X3] input "X3" 4004(5004): Terminal [X4] input "X4" 4005(5005): Terminal [X5] input "X5" 4006(5006): Terminal [X6] input "X6" 4007(5007): Terminal [X7] input "X7" 4008(5008): Terminal [X8] input "X8" 4009(5009): Terminal [X9] input "X9" 4010(5010): Terminal [FWD] input "FWD" 4011(5011): Terminal [REV] input "REV" 4021(5021): Terminal [I1] input "I1" 4022(5022): Terminal [I2] input "I2" 4023(5023): Terminal [I3] input "I3" 4024(5024): Terminal [I4] input "I4" 4025(5025): Terminal [I5] input "I5" 4026(5026): Terminal [I6] input "I6" 4027(5027): Terminal [I7] input "I7" 4028(5028): Terminal [I8] input "I8" 4029(5029): Terminal [I9] input "I9" 4030(5030): Terminal [I10] input "I10" 4031(5031): Terminal [I11] input "I11" 4032(5032): Terminal [I12] input "I12" 4033(5033): Terminal [I13] input "I13" 4034(5034): Terminal [I14] input "I14" 4035(5035): Terminal [I15] input "I15" 4036(5036): Terminal [I16] input "I16" 4041(5041): Terminal [CLI1] input "CLI1" 4042(5042): Terminal [CLI2] input "CLI2" 4043(5043): Terminal [CLI3] input "CLI3" 4044(5044): Terminal [CLI4] input "CLI4" 4045(5045): Terminal [CLI5] input "CLI5" 4046(5046): Terminal [CLI6] input "CLI6" 4047(5047): Terminal [CLI7] input "CLI7" 4048(5048): Terminal [CLI8] input "CLI8" 4049(5049): Terminal [CLI9] input "CLI9" 4081(5081): Key RUN/FWD input "KP-RUN/KP-FWD" 4082(5082): Key REV input "KP-REV" 4083(5083): Key STOP input "KP-STOP" 4084(5084): Key UP input "KP-UP" 4085(5085): Key DOWN input "KP-DOWN" 4088(5088): Key M/SHIFT input "KP-M/SHIFT" 4091(5091): Key RESET input "KP-RESET" 4101(5101): Terminal [X1] input (terminal block only) "X1-TERM" 4102(5102): Terminal [X2] input (terminal block only) "X2-TERM" 4103(5103): Terminal [X3] input (terminal block only) "X3-TERM" 4104(5104): Terminal [X4] input (terminal block only) "X4-TERM" 4105(5105): Terminal [X5] input (terminal block only) "X5-TERM" 4106(5106): Terminal [X6] input (terminal block only) "X6-TERM" 4107(5107): Terminal [X7] input (terminal block only) "X7-TERM" 4108(5108): Terminal [X8] input (terminal block only) "X8-TERM" 4109(5109): Terminal [X9] input (terminal block only) "X9-TERM" 4110(5110): Terminal [FWD] input (terminal block only) "FWD-TERM" 4111(5111): Terminal [REV] input (terminal block only) "REV-TERM" 6000 (7000): Final run command RUN "FL_RUN" 6001 (7001): Final run command FWD "FL_FWD" 6002 (7002): Final run command REV "FL_REV" 6003 (7003): Accelerating "DACC" 6004 (7004): Decelerating "DDEC" 6005 (7005): Under anti-regenerative control "REGA" 6006 (7006): Within dancer reference position "DR_REF" 6007 (7007): With/without alarm factor "ALM_ACT" 6100: TRUE (1) fixed input "TRUE" 6101: FALSE (0) fixed input "TRUE" * Inside the ( ) is the negative logic signal. (OFF at short-circuit). [Analog] 8000: Output frequency 1 (before slip compensation) 8001: Output frequency 2 (after slip compensation) 8002: Output current 8003: Output voltage when alarm occurred 8004: Output torque 8005: Load factor 8006: Power consumption 8007: PID feedback value 8008: Actual speed/estimated speed 8009: DC link bus voltage 8013: Motor output 8015: PID command (SV) 8016: PID output (MV) 8017: Master-follower angle deviation 8018: Inverter cooling fin temperature 8021: PG feedback value 8022: Torque current command 8023: PID deviation 8024: Line speed command 8025: Winding diameter calculation value 8026: Setting frequency (before acceleration/deceleration calculation) 9001: Analog terminal [12] input signal "12" 9002: Analog terminal [C1] input signal (C1 function) "C1" 9003: Analog terminal [V2] input signal "V2" 9004: Analog terminal [32] input signal "32"				

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		9005: Analog terminal [C2] input signal "C2" 9006: Reserved 9007: Reserved 9008: Analog terminal [C1] input signal (V3 function) "V3" 9010: UP/DOWN value "UP/DOWN"				
U04	(Function 1)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ	N	Y	0.00	
U05	(Function 2)	-9990 to 0.00 to 9990.0	N	Y	0.00	

Customizable logic Step 1 to 14 function code is assigned as follows: Setting value is the same as U01 to U05.

	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9	Step 10
Logic function block	U01	U06	U11	U16	U21	U26	U31	U36	U41	U46
Input 1	U02	U07	U12	U17	U22	U27	U32	U37	U42	U47
Input 2	U03	U08	U13	U18	U23	U28	U33	U38	U43	U48
Function 1	U04	U09	U14	U19	U24	U29	U34	U39	U44	U49
Function 2	U05	U10	U15	U20	U25	U30	U35	U40	U45	U50

	Step 11	Step 12	Step 13	Step 14
Logic function block	U51	U56	U61	U66
Input 1	U52	U57	U62	U67
Input 2	U53	U58	U63	U68
Function 1	U54	U59	U64	U69
Function 2	U55	U60	U65	U70

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
U71	Customizable logic (Output selection) Output signal 1	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Invalid 1 to 260: Output of Step 1 to 260 "S001" to "S0260"	N	Y	0	5-402
U72	Output signal 2					
U73	Output signal 3					
U74	Output signal 4					
U75	Output signal 5					
U76	Output signal 6					
U77	Output signal 7					
U78	Output signal 8					
U79	Output signal 9					
U80	Output signal 10					
U81	Customizable logic (Function selection) Output signal 1	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 172 (1000 to 1172): same as E98, but 19 and 80 cannot be selected. 241 to 245 (1241 to 1245): User-defined alarm 1 to 5 "CA1" to "CA5" 8001 to 8020: The value with 8000 added to E61	N	Y	100	
U82	Output signal 2					
U83	Output signal 3					
U84	Output signal 4					
U85	Output signal 5					
U86	Output signal 6					
U87	Output signal 7					
U88	Output signal 8					
U89	Output signal 9					
U90	Output signal10					
U91	Customizable logic: Timer monitor (Step selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Monitor disable 1 to 260: Step 1 to 260	Y	N	0	
U92	Customizable logic (The coefficients of the approximate formula) (Mantissa of KA1)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9.999 to 9.999	N	Y	0.000	
U93	(Exponent part of KA1)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -5 to 5	N	Y	0	
U94	(Mantissa of KB1)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9.999 to 9.999	N	Y	0.000	
U95	(Exponent part of KB1)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -5 to 5	N	Y	0	
U96	(Mantissa of KC1)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -9.999 to 9.999	N	Y	0.000	
U97	(Exponent part of KC1)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -5 to 5	N	Y	0	
U98	Customizable logic Output monitor (Step selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Monitor disable 1 to 260 : Step 1 to 260			0	
U99	Customizable logic Output monitor (Display unit selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ * Same as J105			1	
U100	Task process cycle setting	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Auto (Automatic selection from 1, 2, 5, 10, or 20 ms based on number of steps) 1: 1 ms (Up to 10 steps) 2: 2 ms (Up to 20 steps) 5: 5 ms (Up to 50 steps) 10: 10 ms (Up to 100 steps) 20: 20 ms (Up to 260 steps) 127: Multi-task (Multiple cycles can be set up to 20 steps)	N	Y	0	5-402
U101	Customizable logic Operating point 1 (X1)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -999.0 to 0.00 to 9990.0	Y	N	0.00	5-402 5-431
U102	Operating point 1 (Y1)					
U103	Operating point 2 (X2)					
U104	Operating point 2 (Y2)					
U105	Operating point 3 (X3)					
U106	Operating point 3 (Y3)					
U107	Customizable logic (Auto calculation of the coefficients of the approximate formula)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Invalid 1: Calculation execution (Calculation 1)	N	N	0	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
U121	Customizable logic (User parameter 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -9990 to 0.00 to 9990.0	Y	Y	0.00	5-402
U122	(User parameter 2)					
U123	(User parameter 3)					
U124	(User parameter 4)					
U125	(User parameter 5)					
U126	(User parameter 6)					
U127	(User parameter 7)					
U128	(User parameter 8)					
U129	(User parameter 9)					
U130	(User parameter 10)					
U131	(User parameter 11)					
U132	(User parameter 12)					
U133	(User parameter 13)					
U134	(User parameter 14)					
U135	(User parameter 15)					
U136	(User parameter 16)					
U137	(User parameter 17)					
U138	(User parameter 18)					
U139	(User parameter 19)					
U140	(User parameter 20)					
U141	(User parameter 21)					
U142	(User parameter 22)					
U143	(User parameter 23)					
U144	(User parameter 24)					
U145	(User parameter 25)					
U146	(User parameter 26)					
U147	(User parameter 27)					
U148	(User parameter 28)					
U149	(User parameter 29)					
U150	(User parameter 30)					
U151	(User parameter 31)					
U152	(User parameter 32)					
U153	(User parameter 33)					
U154	(User parameter 34)					
U155	(User parameter 35)					
U156	(User parameter 36)					
U157	(User parameter 37)					
U158	(User parameter 38)					
U159	(User parameter 39)					
U160	(User parameter 40)					
U161	(User parameter 41)					
U162	(User parameter 42)					
U163	(User parameter 43)					
U164	(User parameter 44)					
U165	(User parameter 45)					
U166	(User parameter 46)					
U167	(User parameter 47)					
U168	(User parameter 48)					
U169	(User parameter 49)					
U170	(User parameter 50)					
U171	Customizable logic (Storage area 1)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -9990 to 0.00 to 9990.0	Y	Y	0.00	5-402
U172	(Storage area 2)					
U173	(Storage area 3)					
U174	(Storage area 4)					
U175	(Storage area 5)					
U176	(Storage area 6)					
U177	(Storage area 7)					
U178	(Storage area 8)					
U179	(Storage area 9)					
U180	(Storage area 10)					

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
U181	Customizable logic Output signal 11 (Output selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 (Disable): 1 to 260: Output of Step 1 to 260 “S001” to “S0260”	N	Y	0	
U182	Output signal 12 (Output selection)					
U183	Output signal 13 (Output selection)					
U184	Output signal 14 (Output selection)					
U185	Customizable logic Output signal 11 (Function selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 172 (1000 to 1172): same as E98, but 19 and 80 cannot be selected. 241 to 245 (1241 to 1245): User-defined alarm 1 to 5 “CA1” to “CA5” 8001 to 8020: The value with 8000 added to E61	N	Y	100	
U186	Output signal 12 (Function selection)					
U187	Output signal 13 (Function selection)					
U188	Output signal 14 (Function selection)					
U190	Customizable logic Step setting (Step number)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 1 to 260	Y	N	15	
U191	(Block selection)	Same as U01	N	N	0	
U192	(input 1)	Same as U02	N	N	100	
U193	(input 2)	Same as U03	N	N	100	
U194	(Function 1)	Same as U04	N	N	0.00	
U195	(Function 2)	Same as U05	N	N	0.00	
U196	Customizable logic ROM version 4 higher order digits (for manufacturer)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 9999	N	N	0	-
U197	(for user)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 9999	N	Y	0	-
U198	Customizable logic ROM version 4 lower order digits (for manufacturer)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 9999	N	N	0	-
U199	(for user)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 9999	N	Y	0	-

■ o codes: Option Functions (Option functions)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
o01 to o17	Reserved	Please do not set.	-	-	-	
o19	DI option (DI polarity selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Frequency setting (without polarity) 1: Frequency setting (with polarity) * This is valid only when o20 = 0, 1.	N	Y	0	
o20	DI option (DI mode selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: 8-bit binary frequency setting 1: 12-bit binary frequency setting 2: 15-bit binary frequency setting 3: 16-bit binary frequency setting 4: BCD 4-digit frequency setting 0.00 to 99.99 Hz 5: BCD 4-digit frequency setting 0.0 to 599.9 Hz 99: General-purpose DI function (I1 to I16)	N	Y	0	
o21	DO option (DO mode selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Output frequency 1 (before slip compensation) 1: Output frequency 2 (after slip compensation) 2: Output current 3: Output voltage 4: Output torque 5: Load factor 6: Power consumption 7: PID feedback value 8: Actual speed/estimated speed value 9: DC intermediate circuit voltage 13: Motor output 15: PID command (SV) 16: PID output (MV) 17: Master-follower angle deviation 18: Inverter cooling fin temperature 21: PG feedback value 22: Torque current command value 23: PID deviation 24: Line speed command 25: Winding diameter calculation value 26: Set frequency (before acceleration/deceleration calculation) 99: Individual signal output	Y	Y	0	
o22	RY option (Mode selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Output linked to terminal [Y1] to [Y4] functions (G1 compatible) 1: Individual signal output (set with o23 to o26)	N	Y	0	
o23	Terminal [Y1A/B/C] (Ry output)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ Same as E20	N	Y	0	
o24	Terminal [Y2A/B/C] (Ry output)		N	Y	1	
o25	Terminal [Y3A/B/C] (Ry output)		N	Y	2	
o26	Terminal [Y4A/B/C] (Ry output)		N	Y	7	
o27	Transmission error(Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Immediate Er5 trip when communication error occurs. 1: Immediate Er5 trip after running for time specified with timer after communication error occurs. 2: Immediate Er5 trip if communication error occurs, and communication does not recover after retry while running for time specified with timer 3: Motor continues to run without Er5 trip even if communication error occurs. Motor runs in accordance with communication command after communication recovers. 4 to 9: Same as o27 = 0 10: Er5 trip following deceleration stop due to communication error. 11: Er5 trip following deceleration stop after running for time specified with timer after communication error occurs 12: Deceleration stop if communication error occurs, and communication does not recover after retry while running for time specified with timer. Motor continues to run in accordance with communication command if communication recovers. [When combined with DeviceNet option] 13: Run command immediately turned OFF when communication error occurs. (Er5 does not occur.) 14: Forced forward rotation operation when communication error occurs. (Er5 does not occur.) 15: Forced reverse rotation operation when communication error occurs. (Er5 does not occur.) [When combined with other options] 13 to 15: Same as o27 = 3	Y	Y	0	
o28	Transmission error (Timer time)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.0 to 60.0	Y	Y	0.0	
o30	Bus setting parameter 01	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 to 255 The function for each function code differs based on the bus option type.	N	Y	0	
o31	Bus setting parameter 02		N	Y	0	
o32	Bus setting parameter 03		N	Y	0	
o33	Bus setting parameter 04		N	Y	0	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
o34	Bus setting parameter 05	Refer to the respective bus option instruction manuals for details.	N	Y	0	
o35	Bus setting parameter 06		N	Y	0	
o36	Bus setting parameter 07		N	Y	0	
o37	Bus setting parameter 08		N	Y	0	
o38	Bus setting parameter 09		N	Y	0	
o39	Bus setting parameter 10		N	Y	0	
o40	Write function code assignment 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0000 to FFFF (in hexadecimal) Data mapped I/O (Write) The existence of support, and the number items supported differs depending on the bus option type. Refer to the respective bus option instruction manuals for details on the data setting method.	N	Y	0000	
o41	Write function code assignment 2		N	Y	0000	
o42	Write function code assignment 3		N	Y	0000	
o43	Write function code assignment 4		N	Y	0000	
o44	Write function code assignment 5		N	Y	0000	
o45	Write function code assignment 6		N	Y	0000	
o46	Write function code assignment 7		N	Y	0000	
o47	Write function code assignment 8		N	Y	0000	
o48	Read function code assignment 1	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0000 to FFFF (in hexadecimal) Data mapped I/O (Read) The existence of support, and the number items supported differs depending on the bus option type. Refer to the respective bus option instruction manuals for details on the data setting method.	N	Y	0000	
o49	Read function code assignment 2		N	Y	0000	
o50	Read function code assignment 3		N	Y	0000	
o51	Read function code assignment 4		N	Y	0000	
o52	Read function code assignment 5		N	Y	0000	
o53	Read function code assignment 6		N	Y	0000	
o54	Read function code assignment 7		N	Y	0000	
o55	Read function code assignment 8		N	Y	0000	
o56	Read function code assignment 9		N	Y	0000	
o57	Read function code assignment 10		N	Y	0000	
o58	Read function code assignment 11		N	Y	0000	
o59	Read function code assignment 12		N	Y	0000	
o60	Terminal [32] (Function selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ Same as E61	N	Y	0	
o61	Terminal [32] (Offset adjustment)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -5.0 to 5.0 %	Y*	Y	0.0	
o62	Terminal [32] (Gain adjustment)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 400.00 %	Y*	Y	100.00	
o63	Terminal [32] (Filter setting)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 5.00 s	Y	Y	0.05	
o64	Terminal [32] (Gain reference point)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 100.00 %	Y*	Y	100.00	
o65	Terminal [32] (Polarity selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Bipolar 1: Unipolar	N	Y	1	
o66	Terminal [32] (Bias)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -200.0 to 200.00 %	Y*	Y	0.00	
o67	Terminal [32] (Bias reference point)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0.00 to 100.00 %	Y*	Y	0.00	
o69	Terminal [32] (Display unit)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ Same as C58	N	Y	2	
o70	Terminal [32] (Maximum scale)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -999.0 to 0.00 to 9990.0	N	Y	100.00	
o71	Terminal [32] (Minimum scale)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ -999.0 to 0.00 to 9990.0	N	Y	0.00	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
o75	Terminal [C2] (Range selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: 4 to 20 mA Unipolar 1: 0 to 20 mA Unipolar 10: 4 to 20 mA Bipolar 11: 0 to 20 mA Bipolar	N	Y	0	
o76	Terminal [C2] (Function selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ Same as E61	N	Y	0	
o77	Terminal [C2] (Offset adjustment)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -5.0 to 5.0 %	Y*	Y	0.0	
o78	Terminal [C2] (Gain adjustment)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 400.00 %	Y*	Y	100.00	
o79	Terminal [C2] (Filter setting)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 5.00 s	Y	Y	0.05	
o81	Terminal [C2] (Gain reference point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	100.00	
o82	Terminal [C2] (Bias)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -200.0 to 200.00 %	Y*	Y	0.00	
o83	Terminal [C2] (Bias reference point)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 100.00 %	Y*	Y	0.00	
o85	Terminal [C2] (Display unit)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ Same as C58	N	Y	2	
o86	Terminal [C2] (Maximum scale)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -999.0 to 0.00 to 9990.0	N	Y	100.00	
o87	Terminal [C2] (Minimum scale)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ -999.0 to 0.00 to 9990.0	N	Y	0.00	
o88	C1OFF signal (Operation selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Signal ON following terminal [C1] wire break 1: Signal ON following terminal [C2] wire break 2: Signal ON following terminal [C1] or [C2] wire break	N	Y	2	
o90	Terminal [Ao/CS2] (Function selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ Same as F31	Y	Y	0	
o91	Terminal [Ao/CS2] (Output gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 300 %	Y*	Y	100	
o93	Terminal [Ao] (Polarity selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Bipolar 1: Unipolar	N	Y	1	
o96	Terminal [CS/CS1] (Function selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ Same as F31	Y	Y	0	
o97	Terminal [CS/CS1] (Output gain)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 to 300 %	Y*	Y	100	
o101	Terminal [I1] (Function selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 (1000): Multistep frequency selection (0 to 1 steps) “SS1” 1 (1001): Multistep frequency selection (0 to 3 steps) “SS2” 2 (1002): Multistep frequency selection (0 to 7 steps) “SS4” 3 (1003): Multistep frequency selection (0 to 15 steps) “SS8” 4 (1004): Acceleration/deceleration selection (2 steps) “RT1” 5 (1005): Acceleration/deceleration selection (4 steps) “RT2” 6 (1006): Self-hold selection “HLD” 7 (1007): Coast to stop command “BX” 8 (1008): Alarm (error) reset “RST” 9 (1009): External alarm “THR” (9 = Active OFF/1009 = Active ON) 10 (1010): Jogging operation “JOG” 11 (1011): Frequency setting 1/Frequency setting 2 “Hz2/Hz1” 12 (1012): Motor 2 selection “M2” 13 : DC braking command “DCBRK” 14 (1014): Torque limit 2/Torque limit 1 “TL2/ TL1” 15 : Switch to commercial power supply (50 Hz) “SW50” 16 : Switch to commercial power supply (60 Hz) “SW60” 17 (1017): UP command “UP” 18 (1018): DOWN command “DOWN” 19 (1019): Allow function code editing (data change enabled) “WE-KP” 20 (1020): PID control cancel “Hz/PID” 21 (1021): Normal/inverse operation switching “IVS” 22 (1022): Interlock “IL” 23 (1023): Torque control cancel“Hz/TRQ” 24 (1024): Link operation selection (RS-485, BUS option) “LE” 25 (1025): Universal DI “U-DI” 26 (1026): Starting characteristic selection “STM” 30 (1030): Forced stop “STOP” (30 = Active OFF/1030 = Active ON) 32 (1032): Pre-excitation “EXITE” 33 (1033): PID integral term/differential term reset “PID-RST” 34 (1034): PID integral term hold “PID-HLD” 35 (1035): Local (keypad) command selection “LOC” 36 (1036): Motor 3 selection “M3” 37 (1037): Motor 4 selection “M4” 39 : Condensation prevention “DWP”	N	Y	100	
o102	Terminal [I2] (Function selection)		N	Y	100	
o103	Terminal [I3] (Function selection)		N	Y	100	
o104	Terminal [I4] (Function selection)		N	Y	100	
o105	Terminal [I5] (Function selection)		N	Y	100	
o106	Terminal [I6] (Function selection)		N	Y	100	
o107	Terminal [I7] (Function selection)		N	Y	100	
o108	Terminal [I8] (Function selection)		N	Y	100	
o109	Terminal [I9] (Function selection)		N	Y	100	
o110	Terminal [I10] (Function selection)		N	Y	100	
o111	Terminal [I11] (Function selection)		N	Y	100	
o112	Terminal [I12] (Function selection)		N	Y	100	
o113	Terminal [I13] (Function selection)		N	Y	100	
o114	Terminal [I14] (Function selection)		N	Y	100	
o115	Terminal [I15] (Function selection)		N	Y	100	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
o116	Terminal [I16] (Function selection)	40 : Switch to commercial power built-in sequence (50 Hz) “ISW50” 41 : Switch to commercial power built-in sequence (60 Hz) “ISW60” 42 (1042): Home position limit switch “LS” 46 (1046): Overload stop enable command “OLS” 47 (1047): Servo lock command (under PG vector) “LOCK” 49 (1049): Pulse train sign “SIGN” 58 (1058): UP/DOWN frequency clear “STZ” 59 (1059): Battery operation selection “BATRY” 60 (1060): Torque bias command 1 “TB1” 61 (1061): Torque bias command 2 “TB2” 62 (1062): Torque bias hold “H-TB” 65 (1065): Brake check “BRKE” 70 (1070): Constant surface speed control cancel “Hz/LSC” 71 (1071): Constant surface speed control frequency memory “LSC-HLD” 72 (1072): Input during operation with commercial power supply (motor 1) “CRUN-M1” 73 (1073): Input during operation with commercial power supply (motor 2) “CRUN-M2” 74 (1074): Input during operation with commercial power supply (motor 3) “CRUN-M3” 75 (1075): Input during operation with commercial power supply (motor 4) “CRUN-M4” 76 (1076): Droop selection “DROOP” 77 (1077): PG alarm cancel “PG-CCL” 78 (1078): Speed control parameter selection 1 “MPRM1” 79 (1079): Speed control parameter selection 2 “MPRM2” 80 (1080): Customizable logic cancel “CLC” 81 (1081): Clear all customizable logic timers “CLTC” 82 (1082): Anti-regenerative control cancel “AR-CCL” 83 (1083): PG input switching “PG-SEL” 84 (1084): Acceleration/deceleration cancel (bypass) “BPS” 94 : Jogging forward rotation/stop command “FJOG” 95 : Jogging reverse rotation/stop command “RJOG” 97 (1097): Forward rotation/reverse rotation selection “DIR” 100 : No assignment “NONE” 105 (1105): Light load automatic double speed judgment permission “LAC-ENB” 110 (1110): Servo lock gain selection “SLG2” 111 (1111): Forced stop (terminal block only) “STOP-T” (111 = Active OFF/1111 = Active ON) 116 (1116): AVR cancel “AVR-CCL” 119 (1119): Speed regulator P selection ”P-SEL” 121 (1121): Customizable logic output signal 1 “CLI1” 122 (1122): Customizable logic output signal 2 “CLI2” 123 (1123): Customizable logic output signal 3 “CLI3” 124 (1124): Customizable logic output signal 4 “CLI4” 125 (1125): Customizable logic output signal 5 “CLI5” 126 (1126): Customizable logic output signal 6 “CLI6” 127 (1127): Customizable logic output signal 7 “CLI7” 128 (1128): Customizable logic output signal 8 “CLI8” 129 (1129): Customizable logic output signal 9 “CLI9” 134 (1134): Forced operation “FMS” 135 (1135): Travel/absolute position switching “INC/ABS” 136 (1136): Orientation command "ORT" 137 (1137): Position control/speed control switching "POS/Hz" 138 (1138): Homing command "ORG" 139 (1139): + direction overtravel "+OT" 140 (1140): - direction overtravel "-OT" 141 (1141): Position clear command "P-CLR" 142 (1142): Position preset command "P-PRESET" 143 (1143): Teaching command "TEACH" 144 (1144): Positioning data change command "POS-SET" 145 (1145): Positioning data selection 1 "POS-SEL1" 146 (1146): Positioning data selection 2 "POS-SEL2" 147 (1147): Positioning data selection 4 "POS-SEL4" 169 (1169): Initial diameter set command “D-SET” 170 (1170): Winding diameter calculation hold command “D-HLD” 171 (1171): PID multistep command 1 “PID-SS1” 172 (1172): PID multistep command 2 “PID-SS2” *) The number in parentheses ( ) is the active OFF signal. (OFF at short-circuit)	N	Y	100	
o121	Terminal [O1] (Function selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0 (1000): Inverter running “RUN”	N	Y	0	
o122	Terminal [O2] (Function selection)	1 (1001): Frequency (speed) arrival “FAR” 2 (1002): Frequency (speed) detection “FDT”	N	Y	2	
o123	Terminal [O3] (Function selection)	3 (1003): Undervoltage detection (inverter stopped) “LU” 4 (1004): Torque polarity detection “B/D” 5 (1005): Inverter output limiting “IOL”	N	Y	1	
o124	Terminal [O4] (Function selection)	6 (1006): Auto-restarting after momentary power failure “IPF” 7 (1007): Motor overload early warning “OL”	N	Y	3	
o125	Terminal [O5] (Function selection)	8 (1008): Keypad operation “KP” 10 (1010): Inverter ready to run “RDY”	N	Y	5	
o126	Terminal [O6] (Function selection)	11 : Commercial/inverter power supply switching “SW88” 12 : Commercial/inverter power supply switching “SW52-2” 13 : Commercial/inverter power supply switching “SW52-1”	N	Y	6	
o127	Terminal [O7] (Function selection)	15 (1015): AX terminal function “AX” 16 (1016): Pattern operation stage transition “TU” 17 (1017): Pattern operation cycle complete “TO”	N	Y	100	
o128	Terminal [O8] (Function selection)	18 (1018): Pattern operation stage 1 “STG1” 19 (1019): Pattern operation stage 2 “STG2” 20 (1020): Pattern operation stage 4 “STG4”	N	Y	100	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
		21 (1021): Frequency (speed) arrival 2 “FAR2” 22 (1022): Inverter output limiting with delay “IOL2” 25 (1025): Cooling fan ON-OFF control “FAN” 26 (1026): Auto-resetting “TRY” 28 (1028): Cooling fin overheat early warning “OH” 29 (1029): Synchronization completed “SY” 30 (1030): Lifetime alarm “LIFE” 31 (1031): Frequency (speed) detection 2 “FDT2” 33 (1033): Command loss detection “REF OFF” 35 (1035): Inverter outputting “RUN 2” 36 (1036): Overload prevention controlling “OLP” 37 (1037): Current detection “ID” 38 (1038): Current detection 2 “ID2” 39 (1039): Current detection 3 “ID3” 41 (1041): Low current detection “IDL” 42 (1042): PID alarm output “PID-ALM” 43 (1043): Under PID control “PID-CTL” 44 (1044): Under sleep mode of PID control “PID-STP” 45 (1045): Low torque detection “U-TL” 46 (1046): Torque detection 1 “TD1” 47 (1047): Torque detection 2 “TD2” 48 (1048): Switch to motor 1 “SWM1” 49 (1049): Switch to motor 2 “SWM2” 50 (1050): Switch to motor 3 “SWM3” 51 (1051): Switch to motor 4 “SWM4” 52 (1052): Forward rotation “FRUN” 53 (1053): Reverse rotation “RRUN” 54 (1054): In remote mode “RMT” 56 (1056): Thermistor detection “THM” 57 (1057): Mechanical brake control “BRKS” 58 (1058): Frequency (speed) detection 3 “FDT3” 59 (1059): Terminal [C1] [C2] wire break detection “C1OFF” 70 (1070): Speed valid “DNZS” 71 (1071): Speed agreement “DSAG” 72 (1072): Frequency (speed) arrival 3 “FAR3” 76 (1076): Speed mismatch detection “PG-ERR” 77 (1077): Low intermediate voltage detection “U-EDC” 79 (1079): During decelerating at momentary power failure “IPF2” 82 (1082): Positioning complete “PSET” 84 (1084): Maintenance timer “MNT” 87 (1087): Frequency arrival detection “FARFDT” 89 (1089): Magnetic pole position detection complete signal “PTDDT” 90 (1090): Alarm content 1 “AL1” 91 (1091): Alarm content 2 “AL2” 92 (1092): Alarm content 4 “AL4” 93 (1093): Alarm content 8 “AL8” 95 (1095): Forced operation “FMRUN” 98 (1098): Light alarm “L-ALM” 99 (1099): Integrated alarm “ALM” 100 : No assignment “NONE” 101 (1101): Terminal [EN] detection circuit error “DECF” 102 (1102): Terminal [EN] OFF “ENOFF” 105 (1105): Braking transistor error “DBAL” 111 (1111): Customizable logic output signal 1 “CLO1” 112 (1112): Customizable logic output signal 2 “CLO2” 113 (1113): Customizable logic output signal 3 “CLO3” 114 (1114): Customizable logic output signal 4 “CLO4” 115 (1115): Customizable logic output signal 5 “CLO5” 116 (1116): Customizable logic output signal 6 “CLO6” 117 (1117): Customizable logic output signal 7 “CLO7” 118 (1118): Customizable logic output signal 8 “CLO8” 119 (1119): Customizable logic output signal 9 “CLO9” 120 (1120): Customizable logic output signal 10 “CLO10” 121 (1121): Customizable logic output signal 11 “CLO11” 122 (1122): Customizable logic output signal 12 “CLO12” 123 (1123): Customizable logic output signal 13 “CLO13” 124 (1124): Customizable logic output signal 14 “CLO14” 125 (1125): Integral power pulse output “POUT” 131 (1131): Speed limiting “S-LIM” 132 (1132): Torque limiting “T-LIM” 133 (1133): Low current detection 2 “IDL2” 135 (1135): Dancer upper limit position warning signal “D-UPFL” 136 (1136): Dancer lower limit position warning signal “D-DNFL” 137 (1137): Dancer position limit warning signal “D-FL” 151 (1151): Overtravel detection “OT-OUT” 152 (1152): Forced stop detection “STOP-OUT” 153 (1153): Pass point detection 1 “PPAS1” 154 (1154): Pass point detection 2 “PPAS2” 158 (1158): Overload detected “LLIM” 159 (1159): Performing light load automatic double speed operation “LAC” 251 (1251): ON/OFF state of M/SHIFT-button ”MTGL” *) The number in parentheses ( ) is the active OFF signal. (OFF at short-circuit)				

■ y codes: LINK Functions (Link functions)

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
y01	RS-485 Communication 1 (station address)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 to 255	N	Y	1	5-436
y02	(Communications error processing)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Immediately trip with alarm Er8 1: Trip with alarm Er8 after running for the period specified by timer y03 2: Retry during the period specified by timer y03. If the retry fails, trip with alarm Er8. If it succeeds, continue to run. 3: Continue to run	Y	Y	0	
y03	(Timer)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 60.0 s	Y	Y	2.0	
y04	(Baud rate)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: 2400 bps 1: 4800 bps 2: 9600 bps 3: 19200 bps 4: 38400 bps 5: 57600 bps 6: 76800 bps 7: 115200 bps	Y	Y	3	
y05	(Data length selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: 8 bits 1: 7 bits	Y	Y	0	
y06	(Parity selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: None (Stop bit: 2 bits) 1: Even number parity (Stop bit: 1 bit) 2: Odd number parity (Stop bit: 1 bit) 3: None (Stop bit: 1 bit)	Y	Y	0	
y07	(Stop bit selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: 2 bits 1: 1 bit	Y	Y	0	
y08	(Communication time-out detection time)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: No detection, 1 to 60 s	Y	Y	0	
y09	(Response interval time)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 1.00 s	Y	Y	0.01	
y10	(Protocol selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Modbus RTU protocol 1: Reserved 2: Fuji general-purpose inverter protocol	Y	Y	0	
y11	RS-485 Communication 2 (station address)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 to 255	N	Y	1	
y12	(Communications error processing)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Immediately trip with alarm Er7 1: Trip with alarm Er7 after running for the period specified by timer y13 2: Retry during the period specified by timer y13. If the retry fails, trip with alarm Er7. If it succeeds, continue to run. 3: Continue to run	Y	Y	0	
y13	(Timer)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.0 to 60.0 s	Y	Y	2.0	
y14	(Baud rate)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: 2400 bps 1: 4800 bps 2: 9600 bps 3: 19200 bps 4: 38400 bps 5: 57600 bps 6: 76800 bps 7: 115200 bps	Y	Y	3	
y15	(Data length selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: 8 bits 1: 7 bits	Y	Y	0	
y16	(Parity selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: None (Stop bit: 2 bits) 1: Even number parity (Stop bit: 1 bit) 2: Odd number parity (Stop bit: 1 bit) 3: None (Stop bit: 1 bit)	Y	Y	0	
y17	(Stop bit selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: 2 bits 1: 1 bit	Y	Y	0	
y18	(Communication time-out detection timer)	V/f PGV/f PGV SLV PMSLV PMV TRQ 0: Not check of the time-out, 1 to 60 s	Y	Y	0	
y19	(Response interval time)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0.00 to 1.00 s	Y	Y	0.01	
y20	(Protocol selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Modbus RTU protocol 1: Reserved 2: Fuji general-purpose inverter protocol	Y	Y	0	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
y85 y86 y87 y88	(For adjustment by manufacturer) *9	0000 to FFFF(in hexadecimal)	Y	Y	0000	
y93	RTU current format switching	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Format 24 1: Format 19	Y	Y	0	
y94	Link function (Terminal [X] operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Enable	Y	Y	0	
y95	Data clear processing for communication error	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Do not clear data when a communication error alarm occurs. (Compatible with conventional inverters) 1: Clear the data of function codes S01/S05/S19 when a communications error occurs. 2: Clear the run command assigned bit of function code S06 when a communications error occurs. 3: Clear both data 1 and 2 above. * Applicable alarms: Er8 ErP Er4 Er5	Y	Y	0	5-440
y96	Communication compatibility mode	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Disable 1: Reserved 2: Enable (G1 compatible) 3: Enable (GX compatible)	Y	Y	0	5-443
y97	Communication data storage selection	V/f PGV/f SLV PGV PM SLV PM PGV TRQ 0: Store in nonvolatile memory (Rewritable times are limited) 1: Write in temporary memory (Rewritable times are unlimited) 2: Save all data from temporary memory to nonvolatile memory (After all save, return to Data 1)	Y	Y	0	5-443
y98	Bus function (Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ **Frequency setting/torque command** / **Run command** 0: Based on H30 / Based on H30 1: Bus link / Based on H30 2: Based on H30 / Command from bus 3: Command from bus / Command from bus	Y	Y	0	5-443
y99	Support link function (Operation selection)	V/f PGV/f SLV PGV PM SLV PM PGV TRQ **Frequency setting** / **Run command** 0: Based on H30, y98 / Based on H30, y98 1: Commands from FRENIC Loader / Based on H30, y98 2: Based on H30, y98 / Commands from FRENIC Loader 3: Commands from FRENIC Loader / Commands from FRENIC Loader	Y	N	0	5-443

■ K codes: Keypad functions (Keypad functions) for TP-A2SW

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
K01	Multi-function keypad TP-A2SW (Language selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Japanese 1: English 2: German 3: French 4: Spanish 5: Italian 6: Chinese 8: Russian 9: Greek 10: Turkish 11: Polish 12: Czech 13: Swedish 14: Portuguese 15: Dutch 16: Malay 17: Vietnamese 18: Thai 19: Indonesian	Y	Y	0	-
K02	(Backlight OFF time)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Always OFF 1 to 30 min	Y	Y	5	-
K03	(Backlight brightness adjustment)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 (dark) - 10 (bright)	Y	Y	5	-
K04	(contrast adjustment)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0 (low) - 10 (high)	Y	Y	5	-
K08	(LCD monitor status display)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Hide 1: Display full	Y	Y	1	-
K15	(Sub-monitor display selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Operation guide display 1: Bar graph display	Y	Y	0	-
K16	(Sub-monitor 1 display selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1: Output frequency 1 (before slip compensation) 2: Output frequency 2 (after slip compensation) 3: Set frequency 4: Motor speed 5: Load shaft speed 6: Feed speed 7: Constant feeding rate time 8: Speed (%) 9: Line speed set value 10: Line speed output value 13: Output current 14: Output voltage when alarm occurred 18: Calculated motor output torque when alarm occurred 19: Power consumption 20: PID process command 22: PID feedback value 23: Timer value 24: PID output 25: Load factor 26: Motor output 27: Analog signal input monitor 31: Current position 32: Positioning deviation 33: Torque current (%) 34: Magnetic flux command (%) 35: Input watt-hour 36: Winding diameter 37: Position control start position 38: Stop target position 39: PID deviation 40: Torque bias 41: Estimated inertia acceleration/deceleration time conversion value (coming soon) 42: Customizable logic output	Y	Y	13	-
K17	(Sub-monitor 2 display selection)	Same as K16	Y	Y	18	-
K20	(Bar graph 1 display selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 1 to 26	Y	Y	1	-
K21	(Bar graph 2 display selection)	1: Output frequency 1 (before slip compensation) 13: Output current 14: Output voltage when alarm occurred 18: Calculated motor output torque when alarm occurred 19: Power consumption 25: Load factor 26: Motor output	Y	Y	13	-
K22	(Bar graph 3 display selection)		Y	Y	18	-
K50	Permit/prohibit traceback operation	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Permit 1: Prohibit	Y		0	
K51	Permit/prohibit traceback data overwriting	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Permit 1: Prohibit	Y		0	

Function code	Name	Control method and Data setting range	Change when running	Data copying	Factory default	Related page
K52	Sampling cycle	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: 1 ms 1: 2 ms 2: 5 ms 3: 10 ms 4: 20 ms 5: 50 ms 6: 100ms 7: 200 ms 8: 500 us	Y		0	
K53	CH4 operation selection	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: Analog signal 1: Digital signal	Y		0	
K54	Analog Ch1 source selection	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0000 to FFFF (hexadecimal format)	Y		2907	
K55	Analog Ch2 source selection				290B	
K56	Analog Ch3 source selection				0815	
K57	Analog Ch4 source selection				FFFF	
K58	Digital Ch1 source selection	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0000 to 00FF (hexadecimal format)	Y		0080	
K59	Digital Ch2 source selection				0081	
K60	Digital Ch3 source selection				0082	
K61	Digital Ch4 source selection				0083	
K62	Digital Ch5 source selection				0084	
K63	Digital Ch6 source selection				00FF	
K64	Digital Ch7 source selection				00FF	
K65	Digital Ch8 source selection				00FF	
K91	(< key shortcut selection)	V/f PGV/f SLV PGV PMSLV PMPGV TRQ	Y	Y	0	-
K92	(> key shortcut selection)	0: Disable 11 to 99: Respective mode	Y	Y	64	-
K96	TP-G1 compatibility mode	V/f PGV/f SLV PGV PMSLV PMPGV TRQ 0: G1 1: GX1	Y		0	

Keypad function k code is used when the multi-function keypad (TP-A2SW) is connected. For details on K codes, refer to the instruction manual for the multi-function keypad.

Table 5.2-1 Factory default settings by inverter capacity

Fuji standard motors, 8-series

Inverter capacity [kW]	Torque boost 1 to 4 F09/A05/b05/r05	Restart mode after momentary power failure H13	Inverter capacity [kW]	Torque boost 1 to 4 F09/A05/b05/r05	Restart mode after momentary power failure H13
0.4	7.1	0.5	55	0.0	1.5
0.75	6.8		75		
1.5			90		
2.2			110		
3.7	5.5		132		2.0
5.5	4.9		160		
7.5	4.4		200		2.5
11	3.5	1.0	220		
15	2.8		280		
18.5	2.2		315		4.0
22			355		
30	0.0		400		5.0
37			500		
45		1.5	630		

Fuji premium efficiency motors

Inverter capacity [kW]	Torque boost 1 to 4 F09/A05/b05/r05		Restart mode after momentary power failure H13	Inverter capacity [kW]	Torque boost 1 to 4 F09/A05/b05/r05		Restart mode after momentary power failure (restart timer) H13
	HD	LD			HD	LD	
0.4	7.1	7.1	0.5	55	0.0	0.0	1.5
0.75	3.8	3.2		75			
1.5	3.0	2.4		90			
2.2	2.5	2.1		110			
3.7	2.4	2.0		132			2.0
5.5	1.9	1.9		160			
7.5	1, 8	1, 8		200			2.5
11	1.3	1.3	1.0	220			
15	1.2	1.2		280			
18.5	0.9	0.9		315			4.0
22	0.9	0.9		355			
30	0.0	0.0		400			5.0
37				500			
45			1.5	630			

Table 5.2-2 Motor constants

[1] When Fuji standard motor 8-series, or other motors are selected by motor selection (Function code P99/A39/b39/r39 = 0 or 4)

Three-phase 200V series

Motor rated capacity setting range (kW) P02/A16 b16/r16	Applicable motor capacity (kW)	Rated current (A) P03/A17 b17/r17	No-load Current (A) P06/A20 b20/r20	%R1 (%) P07/A21 b21/r21	%X (%) P08/A22 b22/r22	Rated slip P12/A26 b26/r26	Iron loss factor 1 P13/A27 b27/r27	Magnetic saturation factor 1 P16/A30 b30/r30	Magnetic saturation factor 2 P17/A31 b31/r31	Magnetic saturation factor 3 P18/A32 b32/r32	Magnetic saturation factor 4 P19/A33 b33/r33	Magnetic saturation factor 5 P20/A34 b34/r34	Magnetic saturation expansion coefficient a P21/A35 b35/r35	Magnetic saturation expansion coefficient b P22/A36 b36/r36	Magnetic saturation expansion coefficient c P23/A37 b37/r37	Torque current for vector control P55/A55 b55/r55	Induced voltage factor for vector control P56/A56 b56/r56	For adjustment by manufacturer P57/A57 b57/r57	Starting characteristic (Auto search delay time 2) H46
0.01-0 09	0.06	0.44	0.4	13.79	11.75	1.77	14	93.8	87.5	75	62.5	50	106.3	112.5	118.8	0.2		0.027	
0.10-0 19	0.1	0.68	0.55	12.96	12.67	1.77	14	93.3	86.1	74.4	63.6	50.7	108.8	118.7	129.6	0.34		0.024	
0.20-0.39	0.2	1.3	1.06	12.95	12.92	2.33	12.6	89.7	81.9	66.9	54.5	43.3	111.0	129.3	148.4	0.68		0.023	
0.40-0.74	0.4	2.3	1.66	10.2	13.66	2.4	9.88	88.7	81.3	67	55.2	43.8	112.1	126.5	144.3	1.36		0.027	0.5
0.75-1.49	0.75	3, 6	2.3	8.67	10.76	2.33	7.4	88.3	77.7	62.6	51.8	41.1	112.4	129.2	148.4	2.55		0.033	
1.50-2.19	1.5	6.1	3.01	6.55	11.21	2	5.85	92.1	82.8	71.1	58.1	46.2	111.4	126.1	143.9	5.09		0.061	
2.20-3.69	2.2	9.2	4.85	6.48	10.97	1, 8	5.91	85.1	74.6	61.7	50.3	39.8	115.7	133.5	150.6	7.47		0.051	0.6
3.70-5.49	3.7	15	7.67	5.79	11.25	1.93	5.24	86	76.9	61.3	49.5	39.1	115.6	133.2	154.1	12.57		0.063	0.8
5.50-7.49	5.5	22.5	1 1.00	5.28	14.31	1.4	4.75	88.6	79.2	64.9	52.7	41.8	114.3	133.1	155.6	18.68		0.082	1.0
7.50-10.99	7.5	29	12.5	4.5	14.68	1.57	4.03	87.7	80	67.1	56.1	45.6	111.7	128.4	149.2	25.47		0.095	1.2
11.00-14.99	11	42	17.7	3.78	15.09	1.07	3.92	91.3	83.3	69.9	58	47	114.1	130.2	147.9	37.36	85	0.133	1.3
15.00-18.49	15	55	20	3.25	16.37	1.13	3.32	90.5	83.5	72.1	60.7	49.5	109	121.3	137.8	50.94		0.151	
18.50-21.99	18.5	67	21.40	2.92	16.58	0.87	3.34	90.7	83	70.7	59.9	48.7	112.1	127.9	147.5	62.83		0.22	2.0
22.00-29.99	22	78	25.1	2, 7	16	0.9	3.28	89.7	81.3	68.9	59.1	48.4	114.1	130.2	151.8	74.72		0.228	
30.00-36.99	30	107	38.9	2.64	14.96	0.8	3.1	90.2	81.6	68.7	57.2	45.8	114.8	132.3	153.9	101.9		0.202	2.3
37.00-44.99	37	130	41.50	2.76	16.41	0.8	2.3	88.7	78.9	65.4	54.2	43.4	112.2	126.4	143.6	125.7		0.25	2.5
45.00-54.99	45	156	47.5	2.53	16.16	0.8	2.18	89	79.7	66.8	55.4	44.4	112.3	126	141.8	152.8		0.272	
55.00-74.99	55	190	58.6	2.35	16.2	0.94	2.45	89.2	79.3	64.7	53.6	43.1	117.2	136.2	157.8	186.8		0.267	2.6
75.00-89.99	75	260	83.2	1.98	16.89	0.8	2.33	88.1	78	64.3	54.2	42.9	114.9	129.8	144.6	254.7		0.292	2.8
90.00-109.9	90	310	99.2	1.73	16.03	0.8	2.31	88.8	79	65	54	44	115	130	145	305.7		0.31	3.2
110.0 to	110	376	91.20	1.99	20.86	0.66	1.73	90.5	82.6	70.7	58.7	47.8	112.2	126.1	142.4	373.6		0.378	3.5

Motor rated capacity setting range (kW) P02/A16 b16/r16	Applicable motor capacity (kW)	Rated current (A) P03/A17 b17/r17	No-load Current (A) P06/A20 b20/r20	%R1 (%) P07/A21 b21/r21	%X (%) P08/A22 b22/r22	Rated slip P12/A26 b26/r26	Iron loss factor 1 P13/A27 b27/r27	Magnetic saturation factor 1 P16/A30 b30/r30	Magnetic saturation factor 2 P17/A31 b31/r31	Magnetic saturation factor 3 P18/A32 b32/r32	Magnetic saturation factor 4 P19/A33 b33/r33	Magnetic saturation factor 5 P20/A34 b34/r34	Magnetic saturation expansion coefficient a P21/A35 b35/r35	Magnetic saturation expansion coefficient b P22/A36 b36/r36	Magnetic saturation expansion coefficient c P23/A37 b37/r37	Torque current for vector control P55/A55 b55/r55	Induced voltage factor for vector control P56/A56 b56/r56	For adjustment by manufacturer P57/A57 b57/r57	Starting characteristic (Auto search delay time 2) H46
0.01 to 0.09	0.06	0.22	0.20	13.79	11.75	1.77	14.00	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	0.10		0.027	
0.10 to 0.19	0.1	0.35	0.27	12.96	12.67	1.77	14.00	93.3	86.1	74.4	63.6	50.7	108.8	118.7	129.6	0.17		0.024	
0.20 to 0.39	0.2	0.65	0.53	12.95	12.92	2.33	12.60	89.7	81.9	66.9	54.5	43.3	111.0	129.3	148.4	0.34		0.023	0.5
0.40 to 0.74	0.4	1.15	0.83	10.20	13.66	2.40	9.88	88.7	81.3	67.0	55.2	43.8	112.1	126.5	144.3	0.68		0.027	
0.75 to 1.49	0.75	1.80	1.15	8.67	10.76	2.33	7.40	88.3	77.7	62.6	51.8	41.1	112.4	129.2	148.4	1.27		0.033	
1.50 to 2.19	1.5	3.10	1.51	6.55	11.21	2.00	5.85	92.1	82.8	71.1	58.1	46.2	111.4	126.1	143.9	2.55		0.061	
2.20 to 3.69	2.2	4.60	2.43	6.48	10.97	1.80	5.91	85.1	74.6	61.7	50.3	39.8	115.7	133.5	150.6	3.74		0.051	0.6
3.70 to 5.49	3.7	7.50	3.84	5.79	11.25	1.93	5.24	86.0	76.9	61.3	49.5	39.1	115.6	133.2	154.1	6.28		0.063	0.8
5.50 to 7.49	5.5	11.50	5.50	5.28	14.31	1.40	4.75	88.6	79.2	64.9	52.7	41.8	114.3	133.1	155.6	9.34		0.082	1.0
7.50 to 10.99	7.5	14.50	6.25	4.50	14.68	1.57	4.03	87.7	80.0	67.1	56.1	45.6	111.7	128.4	149.2	12.74		0.095	1.2
11.00 to 14.99	11	21.00	8.85	3.78	15.09	1.07	3.92	91.3	83.3	69.9	58.0	47.0	114.1	130.2	147.9	18.68	85	0.133	1.3
15.00 to 18.49	15	27.50	10.00	3.25	16.37	1.13	3.32	90.5	83.5	72.1	60.7	49.5	109.0	121.3	137.8	25.47		0.151	
18.50 to 21.99	18.5	34.00	10.70	2.92	16.58	0.87	3.34	90.7	83.0	70.7	59.9	48.7	112.1	127.9	147.5	31.41		0.22	2.0
22.00 to 29.99	22	39.00	12.60	2.70	16.00	0.90	3.28	89.7	81.3	68.9	59.1	48.4	114.1	130.2	151.8	37.36		0.228	
30.00 to 36.99	30	54.00	19.50	2.64	14.96	0.80	3.10	90.2	81.6	68.7	57.2	45.8	114.8	132.3	153.9	50.94		0.202	2.3
37.00 to 44.99	37	65.00	20.80	2.76	16.41	0.80	2.30	88.7	78.9	65.4	54.2	43.4	112.2	126.4	143.6	62.83		0.25	2.5
45.00 to 54.99	45	78.00	23.80	2.53	16.16	0.80	2.18	89.0	79.7	66.8	55.4	44.4	112.3	126.0	141.8	76.41		0.272	
55.00 to 74.99	55	95.00	29.30	2.35	16.20	0.94	2.45	89.2	79.3	64.7	53.6	43.1	117.2	136.2	157.8	93.39		0.267	2.6
75.00 to 89.99	75	130.0	41.60	1.98	16.89	0.80	2.33	88.1	78.0	64.3	54.2	42.9	114.9	129.8	144.6	127.4		0.292	2.8
90.00 to 109.9	90	155.0	49.60	1.73	16.03	0.80	2.31	88.8	79.0	65.0	54.0	44.0	115.0	130.0	145.0	152.8		0.31	3.2
110.0 to 131.9	110	188.0	45.60	1.99	20.86	0.66	1.73	90.5	82.6	70.7	58.7	47.8	112.2	126.1	142.4	186.8		0.378	3.5
132.0 to 159.9	132	224.0	57.60	1.75	18.90	0.66	1.80	90.3	81.9	69.8	57.8	46.6	112.9	127.6	144.8	211.7		0.394	4.1
160.0 to 199.9	160	272.0	64.50	1.68	19.73	0.66	1.50	92.2	84.8	71.1	58.6	46.9	114.6	130.5	148.0	256.6		0.482	4.5
200.0 to 219.9	200	335.0	71.50	1.57	20.02	0.66	1.36	91.9	85.5	72.3	60.0	47.6	109.8	122.7	136.4	320.8		0.534	4.7
220.0 to 249.9	220	365.0	71.80	1.60	20.90	0.58	1.25	93.1	86.1	72.9	60.8	48.6	108.7	118.8	130.9	352.8		0.561	
250.0 to 279.9	250	415.0	87.90	1.39	18.88	0.54	1.33	92.2	84.9	72.7	60.5	48.9	109.9	122.2	137.8	400.9	90	0.571	5.0
280.0 to 314.9	280	462.0	93.70	1.36	19.18		1.27	92.7	85.6	72.9	60.9		109.3	120.2	133.5	449.1		0.589	5.5
315.0 to 354.9	315	520.0	120.0	0.84	16.68	0.45	1.81									505.2		0.862	5.6
355.0 to 399.9	355	580.0	132.0	0.83	16.40	0.43	1.77									569.3		0.891	
400.0 to 449.9	400	670.0	200.0	0.62	15.67	0.29	1.58									641.5		0.683	7.5
450.0 to 499.9	450	770.0	270.0	0.48	13.03	0.23	1.84									721.7		0.694	9.8
500.0 to 559.9	500	835.0		0.51	12.38	0.18	1.80									801.9		1.393	
560.0 to 629.9	560	940.0		0.57	13.94	0.20	1.61									898.1			
630.0 to 709.9	630	1050.0	355.0	0.46	11.77	0.17	1.29									1010		1.395	10.5
710.0 to	710	1150.0	290.0	0.54	14.62	0.21	0.97									1139		1.560	

[2] When Fuji standard motor 6-series is selected by motor selection

(Function code P99/A39/b39/r39 = 3)

■ **Three-phase 200V series**

Motor rated capacity setting range (kW) P02/A16 b16/r16	Applicable motor capacity (kW)	Rated current (A) P03/A17 b17/r17	No-load Current (A) P06/A20 b20/r20	%R1 (%) P07/A21 b21/r21	%X (%) P08/A22 b22/r22	Rated slip P12/A26 b26/r26	Iron loss factor 1 P13/A27 b27/r27	Magnetic saturation factor 1 P16/A30 b30/r30	Magnetic saturation factor 2 P17/A31 b31/r31	Magnetic saturation factor 3 P18/A32 b32/r32	Magnetic saturation factor 4 P19/A33 b 33/r33	Magnetic saturation factor 5 P20/A34 b34/r34	Magnetic saturation expansion coefficient a P21/A35 b35/r35	Magnetic saturation expansion coefficient b P22/A36 b36/r36	Magnetic saturation expansion coefficient c P23/A37 b37/r37	Torque current for vector control P55/A55 b55/r55	Induced voltage factor for vector control P56/A56 b56/r56	For adjustment by manufacturer P57/A57 b57/r57	Starting characteristic (Auto search delay time 2) H46
0.01 to 0 09	0.06	0.44	0.40	13.79	11.75	1.77	14.00	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	0.20		0.027	
0.10 to 0.19	0.1	0.68	0.55	12.96	12.67	1.77	14.00	93.3	86.1	74.4	63.6	50.7	108.8	118.7	129.6	0.34		0.024	
0.20 to 0.39	0.2	1.30	1.00	12.61	13.63	2.33	12.60	90.0	81.3	67.9	56.6	45.0	112.4	126.6	145.1	0.68		0.026	0.5
0.40 to 0.74	0.4	2.30	1.56	10.20	14.91	2.40	9.88	88.7	81.3	67.0	55.2	43.8	112.1	126.5	144.3	1.36		0.029	
0.75 to 1.49	0.75	3.60	2.35	8.67	10.66	2.33	7.40	88.3	77.7	62.6	51.8	41.1	112.4	129.2	148.4	2.55		0.032	
1.50 to 2.19	1.5	6.10	3.00	6.55	11.26	2.00	5.85	92.1	82.8	71.1	58.1	46.2	111.4	126.1	143.9	5.09		0.061	
2.20 to 3.69	2.2	9.20	4.85	6.48	10.97	1.80	5.91	85.1	74.6	61.7	50.3	39.8	115.7	133.5	150.6	7.47		0.051	0.6
3.70 to 5.49	3.7	15.00	7.70	5.79	11.22	1.93	5.24	86.0	76.9	61.3	49.5	39.1	115.6	133.2	154.1	12.57		0.063	0.8
5.50 to 7.49	5.5	22.00	10.70	5.09	13.66	1.40	4.75	87.2	78.2	65.5	54.2	44.1	111.7	129.1	150.9	18.68		0.088	10
7.50 to 10.99	7.5	29.00	12.50	4.50	14.70	1.57	4.03	87.7	80.0	67.1	56.1	45.6	1117	128.4	149.2	25.47		0.095	1.2
11.00 to 14 99	11	42 00	17.60	3.78	15.12	1.07	3.92	91.3	83.3	69.9	58.0	47.0	114.1	130.2	147.9	37.36	85	0.132	13
15.00 to 18.49	15	55.00	20.00	3.24	16.37	1.13	3.32	90.5	83.5	72.1	60.7	49.5	109.0	121.3	137.8	50.94		0.151	
18.50 to 21.99	18.5	67.00	21.90	2.90	17.00	0.87	3.34	90.7	83.0	70.7	59.9	48.7	112.1	127.9	147.5	62.83		0.243	2.0
22.00 to 29.99	22	78.00	25.10	2.70	16.05	0.90	3.28	89.7	81.3	68.9	59.1	48.4	114.1	130.2	151.8	74.72		0.228	
30.00 to 36.99	30	107.0	38.90	2.69	15.00	0.80	3.10	90.2	81.6	68.7	57.2	45.8	114.8	132.3	153.9	101.9		0.202	2.3
37.00 to 44.99	37	130.0	41.50	2.76	16.42	0.80	2.30	88.7	78.9	65.4	54.2	43.4	112.2	126.4	143.6	125.7		0.25	2.5
45.00 to 54.99	45	156.0	47.50	2.53	16.16	0.80	2.18	89.0	79.7	66.8	55.4	44.4	112.3	126.0	141.8	152.8		0.272	
55.00 to 74.99	55	190.0	58.60	2.35	16.20	0.94	2.45	89.2	79.3	64.7	53.6	43.1	117.2	136.2	157.8	186.8		0.267	2.6
75.00 to 89.99	75	260.0	83.20	1.98	16.89	0.80	2.33	88.1	78.0	64.3	54.2	42.9	114.9	129.8	144.6	254.7		0.292	2.8
90.00 to 109.9	90	310.0	99.20	1.73	16.03	0.80	2.31	88.8	79.0	65.0	54.0	44.0	115.0	130.0	145.0	305.7		0.31	3.2
110.0 to	110	376.0	91.20	1.99	20.86	0.66	1.73	90.5	82.6	70.7	58.7	47.8	112.2	126.1	142.4	373.6		0.378	3.5

Motor rated capacity setting range (kW) P02/A16 b16/r16	Applicable motor capacity (kW)	Rated current (A) P03/A17 b17/r17	No-load Current (A) P06/A20 b20/r20	%R1 (%) P07/A21 b21/r21	%X (%) P08/A22 b22/r22	Rated slip P12/A26 b26/r26	Iron loss factor 1 P13/A27 b27/r27	Magnetic saturation factor 1 P16/A30 b30/r30	Magnetic saturation factor 2 P17/A31 b31/r31	Magnetic saturation factor 3 P18/A32 b32/r32	Magnetic saturation factor 4 P19/A33 b 33/r33	Magnetic saturation factor 5 P20/A34 b34/r34	Magnetic saturation expansion coefficient a P21/A35 b35/r35	Magnetic saturation expansion coefficient b P22/A36 b36/r36	Magnetic saturation expansion coefficient c P23/A37 b37/r37	Torque current for vector control P55/A55 b55/r55	Induced voltage factor for vector control P56/A56 b56/r56	For adjustment by manufacturer P57/A57 b57/r57	Starting characteristic (Auto search delay time 2) H46
0.01 to 0.09	0.06	0.22	0.20	13.79	11.75	1.77	14.00	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	0.10		0.027	
0.10 to 0.19	0.1	0.35	0.27	12.96	12.67	1.77	14.00	93.3	86.1	74.4	63.6	50.7	108.8	118.7	129.6	0.17		0.024	
0.20 to 0.39	0.2	0.65	0.50	12.61	113.63	2.33	12.60	90.0	81.3	67.9	56.6	45.0	112.4	126.6	145.1	0.34		0.026	0.5
0.40 to 0.74	0.4	1.20	0.78	10.20	14.91	2.40	9.88	88.7	81.3	67.0	55.2	43.8	112.1	126.5	144.3	0.68		0.029	
0.75 to 1.49	0.75	1.80	1.18	8.67	10.66	2.33	7.40	88.3	77.7	62.6	51.8	41.1	112.4	129.2	148.4	1.27		0.032	
1.50 to 2.19	1.5	3.10	1.50	6.55	11.26	2.00	5.85	92.1	82.8	71.1	58.1	46.2	111.4	126.1	143.9	2.55		0.061	
2.20 to 3.69	2.2	4.60	2.43	6.48	10.97	1.80	5.91	85.1	74.6	61.7	50.3	39.8	115.7	133.5	150.6	3.74		0.051	0.6
3.70 to 5.49	3.7	7.50	3.85	5.79	11.22	1.93	5.24	86.0	76.9	61.3	49.5	39.1	115.6	133.2	154.1	6.28		0.063	0.8
5.50 to 7.49	5.5	11.00	5.35	5.09	13.65	1.40	4.75	87.2	78.2	65.5	54.2	44.1	111.7	129.1	150.9	9.34		0.088	1.0
7.50 to 10.99	7.5	14.50	6.25	4.50	14.70	1.57	4.03	87.7	80.0	67.1	56.1	45.6	111.7	128.4	149.2	12.74		0.095	1.2
11.00 to 14.99	11	21.00	8.80	3.78	15.12	1.07	3.92	91.3	83.3	69.9	58.0	47.0	114.1	130.2	147.9	18.68	85	0.132	1.3
15.00 to 18.49	15	27.50	10.00	3.24	16.37	1.13	3.32	90.5	83.5	72.1	60.7	49.5	109.0	121.3	137.8	25.47		0.151	
18.50 to 21.99	18.5	34.00	11.00	2.90	17.00	0.87	3.34	90.7	83.0	70.7	59.9	48.7	112.1	127.9	147.5	31.41		0.243	2.0
22.00 to 29.99	22	39.00	12.60	2.70	16.05	0.90	3.28	89.7	81.3	68.9	59.1	48.4	114.1	130.2	151.8	37.36		0.228	
30.00 to 36.99	30	54.00	19.50	2.69	15.00	0.80	3.10	90.2	81.6	68.7	57.2	45.8	114.8	132.3	153.9	50.94		0.202	2.3
37.00 to 44.99	37	65.00	20.80	2.76	16.42	0.80	2.30	88.7	78.9	65.4	54.2	43.4	112.2	126.4	143.6	62.83		0.25	2.5
45.00 to 54.99	45	78.00	23.80	2.53	16.16	0.80	2.18	89.0	79.7	66.8	55.4	44.4	112.3	126.0	141.8	76.41		0.272	
55.00 to 74.99	55	95.00	29.30	2.35	16.20	0.94	2.45	89.2	79.3	64.7	53.6	43.1	117.2	136.2	157.8	93.39		0.267	2.6
75.00 to 89.99	75	130.0	41.60	1.98	16.89	0.80	2.33	88.1	78.0	64.3	54.2	42.9	114.9	129.8	144.6	127.4		0.292	2.8
90.00 to 109.9	90	155.0	49.60	1.73	16.03	0.80	2.31	88.8	79.0	65.0	54.0	44.0	115.0	130.0	145.0	152.8		0.31	3.2
110.0 to 131.9	110	188.0	45.60	1.99	20.86	0.66	1.73	90.5	82.6	70.7	58.7	47.8	112.2	126.1	142.4	186.8		0.378	3.5
132.0 to 159.9	132	224.0	57.60	1.75	18.90	0.66	1.80	90.3	81.9	69.8	57.8	46.6	112.9	127.6	144.8	211.7		0.394	4.1
160.0 to 199.9	160	272.0	64.50	1.68	19.73	0.66	1.50	92.2	84.8	71.1	58.6	46.9	114.6	130.5	148.0	256.6		0.482	4.5
200.0 to 219.9	200	335.0	71.50	1.57	20.02	0.66	1.36	91.9	85.5	72.3	60.0	47.6	109.8	122.7	136.4	320.8		0.534	4.7
220.0 to 249.9	220	365.0	71.80	1.60	20.90	0.58	1.25	93.1	86.1	72.9	60.8	48.6	108.7	118.8	130.9	352.8		0.561	
250.0 to 279.9	250	415.0	87.90	1.39	18.88	0.54	1.33	92.2	84.9	72.7	60.5		109.9	122.2	137.8	400.9		0.571	5.0
280.0 to 314.9	280	462.0	93.70	1.36	19.18	0.54	1.27									449.1		0.589	5.5
315.0 to 354.9	315	520.0	120.0	0.84	16.68	0.45	1.81									505.2		0.862	5.6
355.0 to 399.9	355	580.0	132.0	0.83	16.40	0.43	1.77									569.3	90	0.891	
400.0 to 449.9	400	670.0	200.0	0.62	15.67	0.29	1.58					48.9				641.5		0.683	7.5
450.0 to 499.9	450	770.0		0.48	13.03	0.23	1.84	92.7	85.6	72.9	60.9		109.3	120.2	133.5	721.7		0.694	
500.0 to 559.9	500	835.0	270.0	0.51	12.38	0.18	1.80									801.9		1.393	9.8
560.0 to 629.9	560	940.0		0.57	13.94	0.20	1.61									898.1			
630.0 to 709.9	630	1050.0	355.0	0.46	11.77	0.17	1.29									1010		1.395	10.5
710.0 to	710	1150.0	290.0	0.54	14.62	0.21	0.97									1139		1.560	

[3] When dedicated Fuji motor for vector control is selected by motor selection (Function code P99/A39/b39/r39 = 2)

■ 200V series

Motor rated capacity setting range (kW) P02/A16 b16/r16	Applicable motor capacity (kW)	Base frequency voltage F05	Rated current (A) P03/A17 b17/r17	No-load current (A) P06/A20 b20/r20	%R1 (%) P07/A21 b21/r21	%X (%) P08/A22 b22/r22	Slip compensation gain (for braking) PII/A25 b25/r25	Rated slip P12/A26 b26/r26	Iron loss factor 1 P13/A27 b27/r27	Iron loss factor 2 P14/A28 b28/r28	Iron loss factor 3 P15/A29 b29/r29	Magnetic saturation factor 1 P16/A30 b30/r30	Magnetic saturation factor 2 P17/A31 b31/r31	Magnetic saturation factor 3 P18/A32 b32/r32	Magnetic saturation factor 4 P19/A33 b 33/r33	Magnetic saturation factor 5 P20/A34 b34/r34	Magnetic saturation expansion coefficient a P21/A35 b35/r35	Magnetic saturation expansion coefficient b P22/A36 b36/r36	Magnetic saturation expansion coefficient c P23/A37 b37/r37	Torque current for vector control P55/A55 b55/r55	Induced voltage factor for vector control P56/A56 b56/r56	For adjustment by manufacturer P57/A57 b57/r57	Starting characteristic (Auto search delay time 2) H46
0.01 to 0.09	0.06	200	0.44	0.40	13.79	11.75		1.77	14.00			93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	0.20		0.027	
0.10 to 0.19	0.1	200	0.68	0.55	12.96	12.67		1.77	14.00			93.3	86.1	74.4	63.6	50.7	108.8	118.7	129.6	0.34		0.024	
0.20 to 0.39	0.2	200	1.30	1.06	12.95	12.92	100.0	2.33	12.60	0.00	0.00	89.7	81.9	66.9	54.5	43.3	111.0	29.3	148.4	0.68	85	0.023	
0.40 to 0.74	0.4	200	2.30	1.66	10.20	13.66		2.40	9.88			88.7	81.3	67.0	55.2	43.8	112.1	126.5	144.3	1.36		0.027	0.5
0.75 to 1.49	0.75	188	4.30	3.21	4.34	9.07	89.8	1.32	7.60	7.60	10.00	93.0	85.8	72.6	60.0	47.6	109.6	121.4	136.2	2.92	79	0.054	
1.50 to 2.19	1.5	188	7.00	3.21	7.06	14.76	89.8	2.64	3.80	3.80	5.00	93.0	85.8	72.6	60.0	47.6	109.6	121.4	136.2	5.83	79	0.054	
2.20 to 3.69	2.2	188	11.00	3.81	8.27	12.95	116.7	2.62	3.00	4.00	1.00	85.2	73.7	59.1	47.6	37.4	112.3	131.1	150.0	9.75	74	0.026	0.6
3.70 to 5.49	3.7	188	18.00	8.11	6.86	12.69	94.8	2.50	3.00	2.95	2.50	88.4	80.1	66.4	54.1	43.0	113.1	130.9	158.0	15.69	78	0.042	0.8
5.50 to 7.49	5.5	188	30.0	12.98	6.05	13.44	96.6	1.49	3.00	2.50	3.00	88.3	79.5	66.0	54.1	43.0	114.0	132.0	155.1	21.92	79	0.045	1.0
7.50 to 10.99	7.5	188	37.0	15.62	6.70	12.45	105.6	1.77	2.32	1.76	3.00	85.3	70.7	53.8	43.7	34.4	117.6	140.7	176.4	30.66	82	0.035	1.2
11.00 to 14.99	11	188	50.0	24.79	4.26	11.64	83.4	0.99	4.53	1.88	0.22	84.9	75.0	61.6	50.0	39.4	115.0	137.9	171.9	40.30	93	0.044	1.3
15.00 to 18.49	15	188	65.0	26.99	4.47	12.25	100.0	1.07	0.00	1.50	1.00	88.7	80.7	67.2	55.2	44.0	110.4	125.0	142.7	53.96	85	0.067	
18.50 to 21.99	18.5	188	74.0	30.58	3.22	10.68	99.7	0.93	3.50	0.50	0.50	90.7	83.2	69.5	56.8	44.4	110.0	121.4	139.6	72.83	85	0.12	2.0
22.00 to 29.99	22	188	90.0	34.17	3.59	11.78	141.1	0.61	1.30	0.77	2.00	91.1	83.2	69.1	56.8	44.6	114.2	134.2	159.7	83.43	85	0.194	
30.00 to 36.99	30	188	116.0	53.42	2.53	12.13	106.9	0.61	2.50	3.50	5.00	84.4	74.0	59.5	48.9	38.0	119.5	146.7	183.4	108.1	88	0.193	2.3
37.00 to 44.99	37	188	143.0	60.09	2.47	14.69	107.8	0.50	1.80	3.00	5.00	85.4	75.7	62.3	50.5	39.9	120.1	147.3	186.4	133.2	89	0.092	2.5
45.00 to 54.99	45	188	170.0	56.71	2.73	15.26	95.1	0.95	1.00	0.00	0.15	89.2	81.6	67.6	56.2	43.4	112.7	133.2	163.3	169.7	87	0.148	
55.00 to 74.99	55	185	216.0	66.22	2.08	12.36	95.8	0.62	3.00	0.83	0.21	91.5	83.8	70.6	57.8	45.6	109.8	122.8	146.2	197.9	91	0.272	2.6
75.00 to 89.99	75	183	276.0	99.34	1.70	15.29	104.2	0.64	2.00	2.00	0.00	90.4	83.0	68.4	57.4	46.4	110.1	121.4	135.8	261.6	90	0.278	2.8
90.00 to 109.9	90	183	345.0	89.30	2.28	20.12	81.6	0.67	0.00	5.00	0.00	91.1	85.1	70.9	59.2	48.7	109.8	121.7	137.6	332.3	99	0.275	3.2

Motor rated capacity setting range (kW) P02/A16 b16/r16	Applicable motor capacity (kW)	Base Frequency voltage F05	Rated current (A) P03/A17 b17/r17	No-load Current (A) P06/A20 b20/r20	%R1 (%) P07/A21 b21/r21	%X (%) P08/A22 b22/r22	Slip compensation gain (for braking) PII/A25 b25/r25	Rated slip P12/A26 b26/r26	Iron loss factor 1 P13/A27 b27/r27	Iron loss factor 2 P14/A28 b28/r28	Iron loss factor 3 P15/A29 b29/r29	Magnetic saturation factor 1 P16/A30 b30/r30	Magnetic saturation factor 2 P17/A31 b31/r31	Magnetic saturation factor 3 P18/A32 b32/r32	Magnetic saturation factor 4 P19/A33 b 33/r33	Magnetic saturation factor 5 P20/A34 b34/r34	Magnetic saturation expansion coefficient a P21/A35 b35/r35	Magnetic saturation expansion coefficient b P22/A36 b36/r36	Magnetic saturation expansion coefficient c P23/A37 b37/r37	Torque current for vector control P55/A55 b55/r55	Induced voltage factor for vector control P56/A56 b56/r56	For adjustment by manufacturer P57/A57 b57/r57	Starting characteristic (Auto search delay time 2) H46
0.01 to 0.09	0.06	40G	0.22	0.20	13.79	11.75		1.77	14.00	0.00	0.00	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	0.10		0.027	
0.10 to 0.19	0.1	40G	0.35	0.27	12.96	12.67		1.77	14.00	0.00	0.00	93.3	86.1	74.4	63.6	50.7	108.8	118.7	129.6	0.17		0.024	
0.20 to 0.39	0.2	40G	0.65	0.53	12.95	12.92		2.33	12.60	0.00	0.00	89.7	81.9	66.9	54.5	43.3	111.0	129.3	148.4	0.34		0.023	
0.40 to 0.74	0.4	40G	1.15	0.83	10.20	13.66	100.0	2.40	9.88	0.00	0.00	88.7	81.3	67.0	55.2	43.8	112.1	126.5	144.3	0.68	85	0.027	0.5
0.75 to 1.49	0.75	40G	1.80	1.15	8.67	10.76		2.33	7.40	0.00	0.00	88.3	77.7	62.6	51.8	41.1	112.4	129.2	148.4	1.27		0.033	
1.50 to 2.19	1.5	40G	3.10	1.51	6.55	11.21		2.00	5.85	0.00	0.00	92.1	82.8	71.1	58.1	46.2	111.4	126.1	143.9	2.55		0.061	
2.20 to 3.69	2.2	40G	4.60	2.43	6.48	10.97		1.80	5.91	0.00	0.00	85.1	74.6	61.7	50.3	39.8	115.7	133.5	150.6	3.74		0.051	0.6
3.70 to 5.49	3.7	376	9.00	3.93	6.86	13.94	93.2	2.51	2.35	2.55	1.20	90.5	82.4	68.7	57.0	45.3	113.1	130.9	158.0	7.78	78	0.052	0.8
5.50 to 7.49	5.5	376	15.00	7.15	5.50	12.78	104.5	1.31	2.00	5.00	7.00	88.0	79.2	65.6	53.6	42.2	114.0	132.0	155.1	10.74	80	0.039	1.0
7.50 to 10.99	7.5	376	18.50	7.81	4.37	13.72	115.1	1.47	7.61	2.00	1.00	85.9	76.9	63.4	51.6	40.5	117.6	140.7	176.4	15.33	82	0.032	1.2
11.00 to 14.99	11	376	25.00	12.39	4.27	11.67	83.4	0.99	4.53	1.88	0.22	84.9	75.0	61.6	50.0	39.4	115.0	137.9	171.9	20.15	93	0.044	1.3
15.00 to 18.49	15	376	31.70	14.47	4.48	13.69	98.4	1.29	1.00	0.50	1.00	88.7	81.7	67.2	55.2	44.0	110.4	125.0	142.7	28.63	81	0.067	
18.50 to 21.99	18.5	376	37.00	14.02	2.66	12.45	100.o	0.88	1.00	3.00	3.00	92.5	84.3	70.3	57.1	45.1	110.0	121.4	139.6	36.06	85	0.148	2.0
22.00 to 29.99	22	376	45.00	16.81	3.61	14.06	98.7	0.90	1.50	1.50	3.00	91.1	83.2	69.1	56.5	44.6	114.2	134.2	159.7	41.72	85	0.194	
30.00 to 36.99	30	376	58.00	25.74	2.55	12.16	97.3	0.67	2.50	3.50	9.50	84.4	74.0	59.5	48.9	38.0	119.5	146.7	183.4	52.52	88	0.193	2.3
37.00 to 44.99	37	376	71.00	30.07	2.49	14.11	100.2	0.50	1.79	1.80	5.00	85.4	75.7	62.3	50.5	39.9	120.1	147.3	186.4	65.54	89	0.092	2.5
45.00 to 54.99	45	376	85.00	28.36	2.73	15.30	98.9	0.95	0.50	1.50	1.85	89.2	81.6	67.6	56.2	43.4	112.7	133.2	163.3	84.85	87	0.148	
55.00 to 74.99	55	376	108.0	33.11	2.05	12.20	95.8	0.62	3.00	0.83	0.21	91.5	83.8	70.6	57.8	45.6	109.8	122.8	146.2	98.98	89	0.266	2.6
75.00 to 89.99	75	365	138.0	49.67	1.71	15.39	104.2	0.64	2.00	2.00	0.00	90.4	83.0	68.4	57.4	46.4	110.1	121.4	135.8	130.8	90	0.314	2.8
90.00 to 109.9	90	370	173.0	44.37	2.23	18.47	94.5	0.69	0.00	2.00	0.00	90.7	83.7	69.0	57.1	44.9	109.8	121.7	137.6	164.1	94	0.311	3.2
110.0 to 131.9	110	375	206.0	53.03	2.14	16.83	108.8	0.56	0.44	0.00	0.00	90.1	82.6	67.7	56.3	44.2	109.0	119.9	133.1	195.8	93	0.412	3.5
132.0 to 159.9	132	375	248.0	62.05	1.56	17.21	110.4	0.48	0.00	0.39	0.00	90.1	81.2	67.7	56.2	45.9	112.5	125.6	148.2	237.3	90	0.438	4.1
160.0 to 199.9	160	375	297.0	70.71	1.15	17.47	100.0	0.52	0.00	0.00	0.00	91.0	84.3	71.8	59.1	47.7	108.4	120.6	136.5	286.3	88	0.474	4.5
200.0 to 219.9	200	369	369.0	107.7	1.15	14.98	93.8	0.47	0.00	2.50	0.00	93.8	87.6	74.8	60.6	48.2	108.3	117.9	131.2	341.5	93	0.447	
220.0 to 244.9	220	370																					4.7
250.0 to 279.9	250																						5.0
280.0 to 314.9	280																						5.5
315.0 to 354.9	315		409.0	98.64	1.63	14.54	102.5	0.45	1.00	1.00	0.00	95.1	88.5	75.0	63.1	51.3	108.3	118.8	130.5	385.3	98	0.468	5.6
355.0 to 399.0	355	400																					
400.0 to 449.0	400																						7.5
450.0 to 529.9	450																						9.8
530.0 to	530																						

[4] When HP rating motor is selected by motor selection (Function code P99/A39/b39/r39 = 1)

■ 200V series

Motor rated capacity setting range (kW) P02/A16 b16/r16	Applicable motor capacity (kW)	Rated current (A) P03/A17 b17/r17	No-load Current (A) P06/A20 b20/r20	%R1 (%) P07/A21 b21/r21	%X (%) P08/A22 b22/r22	Rated slip P12/A26 b26/r26	Iron loss factor 1 P13/A27 b27/r27	Magnetic saturation factor 1 P16/A30 b30/r30	Magnetic saturation factor 2 P17/A31 b31/r31	Magnetic saturation factor 3 P18/A32 b32/r32	Magnetic saturation factor 4 P19/A33 b 33/r33	Magnetic saturation factor 5 P20/A34 b34/r34	Magnetic saturation expansion coefficient a P21/A35 b35/r35	Magnetic saturation expansion coefficient b P22/A36 b36/r36	Magnetic saturation expansion coefficient c P23/A37 b37/r37	Torque current for vector control P55/A55 b55/r55	Induced voltage factor for vector control P56/A56 b56/r56	For adjustment by manufacturer P57/A57 b57/r57	Starting characteristic (Auto search delay time 2) H46
0.01 to 0.11	0.1	0.44	0.40	13.79	11.75	2.50	14.00	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	0.21		0.027	
0.12 to 0.24	0.12	0.68	0.55	12.96	12.67	2.50	14.00	93.3	86.1	74.4	63.6	50.7	108.8	118.7	129.6	0.27		0.024	
0.25 to 0.49	0.25	1.40	1.12	11.02	13.84	2.50	12.60	89.7	81.9	66.9	54.5	43.3	111.0	129.3	148.4	0.53		0.014	0.5
0.50 to 0.99	0.5	2.00	1.22	6.15	8.80	2.50	9.88	88.7	81.3	67.0	55.2	43.8	112.1	126.5	144.3	1.09		0.019	
1.00 to 1.99	1	3.00	1.54	3.96	8.86	2.50	7.40	88.3	77.7	62.6	51.8	41.1	112.4	129.2	148.4	2.21		0.036	
2.00 to 2.99	2	5.80	2.80	4.29	7.74	2.50	5.85	92.1	82.8	71.1	58.1	46.2	111.4	126.1	143.9	4.43		0.035	
3.00 to 4.99	3	7.90	3.57	3.15	20.81	1.17	5.91	85.1	74.6	61.7	50.3	39.8	115.7	133.5	150.6	6.64		0.152	0.6
5.00 to 7.49	5	12.6	4.78	3.34	23.57	1.50	5.24	86.0	76.9	61.3	49.5	39.1	115.6	133.2	154.1	11.07		0.153	0.8
7.50 to 9.99	7.5	18.6	6.23	2.65	28.91	1.17	4.75	88.6	79.2	64.9	52.7	41.8	114.3	133.1	155.6	16.60		0.234	1.0
10.00 to 14.99	10	25.3	8.75	2.43	30.78	1.17	4.03	87.7	80.0	67.1	56.1	45.6	111.7	128.4	149.2	22.15		0.209	1.2
15.00 to 19.99	15	37.3	12.7	2.07	29.13	1.00	3.92	91.3	83.3	69.9	58.0	47.0	114.1	130.2	147.9	33.22	85	0.256	1.3
20.00 to 24.99	20	49.1	9.20	2.09	29.53	1.00	33.32	90.5	83.5	72.1	60.7	49.5	109.0	121.3	137.8	44.30		0.262	
25.00 to 29.99	25	60.0	16.70	1.75	31.49	1.00	3.34	90.7	83.0	70.7	59.9	48.7	112.1	127.9	147.5	55.37		0.348	2.0
30.00 to 39.99	30	72.4	19.80	1.90	32.55	1.00	3.28	89.7	81.3	68.9	59.1	48.4	114.1	130.2	151.8	66.45		0.33	
40.00 to 49.99	40	91.0	13.60	1.82	25.32	0.47	3.10	90.2	81.6	68.7	57.2	45.8	114.8	132.3	153.9	88.60		0.497	2.3
50.00 to 59.99	50	115.0	18.70	1.92	24.87	0.58	2.30	88.7	78.9	65.4	54.2	43.4	112.2	126.4	143.6	110.7		0.419	2.5
37.00 to 44.99	60	137.0	20.80	1.29	26.99	0.35	2.18	89.0	79.7	66.8	55.4	44.4	112.3	126.0	141.8	132.9		0.757	
75.00 to 99.99	75	174.0	28.60	1.37	27.09	0.35	2.45	89.2	79.3	64.7	53.6	43.1	117.2	131.2	157.8	166.1		0.66	2.6
100.0 to 124.9	100	226.0	37.40	1.08	23.80	0.23	2.33	88.1	78.0	64.3	54.2	42.9	114.9	129.8	144.6	221.5		0.796	2.8
125.0 to 149.9	125	268.0	29.80	1.05	22.90	0.35	2.31	88.8	79.0	65.0	54.0	44.0	115.0	130.0	145.0	276.9		0.996	3.2
150.0 to	150	337.0	90.40	0.96	21.61	0.39	1.73	90.5	82.6	70.7	58.7	47.8	112.2	126.1	142.4	332.2		0.851	3.5

Motor rated capacity setting range (kW) P02/A16 b16/r16	Applicable motor capacity (kW)	Rated current (A) P03/A17 b17/r17	No-load Current (A) P06/A20 b20/r20	%R1 (%) P07/A21 b21/r21	%X (%) P08/A22 b22/r22	Rated slip P12/A26 b26/r26	Iron loss factor 1 P13/A27 b27/r27	Magnetic saturation factor 1 P16/A30 b30/r30	Magnetic saturation factor 2 P17/A31 b31/r31	Magnetic saturation factor 3 P18/A32 b32/r32	Magnetic saturation factor 4 P19/A33 b 33/r33	Magnetic saturation factor 5 P20/A34 b34/r34	Magnetic saturation expansion coefficient a P21/A35 b35/r35	Magnetic saturation expansion coefficient b P22/A36 b36/r36	Magnetic saturation expansion coefficient c P23/A37 b37/r37	Torque current for vector control P55/A55 b55/r55	Induced voltage factor for vector control P56/A56 b56/r56	For adjustment by manufacturer P57/A57 b57/r57	Starting characteristic (Auto search delay time 2) H46
0.01 to 0.11	0.1	0.22	0.20	13.79	11.75	2.50	14.00	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	0.10		0.027	
0.12 to 0.24	0.12	0.34	0.27	12.96	12.67	2.50	14.00	93.3	86.1	74.4	63.6	50.7	108.8	118.7	129.6	0.13		0.024	
0.25 to 0.49	0.25	0.70	0.56	11.02	13.84	2.50	12.60	89.7	81.9	66.9	54.5	43.3	111.0	129.3	148.4	0.27		0.014	0.5
0.50 to 0.99	0.5	1.00	0.61	6.15	8.80	2.50	9.88	88.7	81.3	67.0	55.2	43.8	112.1	126.5	144.3	0.55		0.019	
1.00 to 1.99	1	1.50	0.77	3.96	8.86	2.50	7.40	88.3	77.7	62.6	51.8	41.1	112.4	129.2	148.4	1.11		0.036	
2.00 to 2.99	2	2.90	1.40	4.29	7.74	2.50	5.85	92.1	82.8	71.1	58.1	46.2	111.4	126.1	143.9	2.21		0.035	
3.00 to 4.99	3	4.00	1.79	3.15	20.81	1.17	5.91	85.1	74.6	61.7	50.3	39.8	115.7	133.5	150.6	3.32		0.152	0.6
5.00 to 7.49	5	6.30	2.39	3.34	23.57	1.50	5.24	86.0	76.9	61.3	49.5	39.1	115.6	133.2	154.1	5.54		0.153	0.8
7.50 to 9.99	7.5	9.30	3.12	2.65	28.91	1.17	4.75	88.6	79.2	64.9	52.7	41.8	114.3	133.1	155.6	8.30		0.234	1.0
10.00 to 14.99	10	12.7	4.37	2.43	30.78	1.17	4.03	87.7	80.0	67.1	56.1	45.6	111.7	128.4	149.2	11.07		0.209	1.2
15.00 to 19.99	15	18.7	6.36	2.07	29.13	1.00	3.92	91.3	83.3	69.9	58.0	47.0	114.1	130.2	147.9	16.61	85	0.256	1.3
20.00 to 24.99	20	24.6	4.60	2.09	29.53	1.00	3.32	90.5	83.5	72.1	60.7	49.5	109.0	121.3	137.8	22.15		0.262	
25.00 to 29.99	25	30.0	8.33	1.75	31.49	1.00	3.34	90.7	83.0	70.7	59.9	48.7	112.1	127.9	147.5	27.69		0.348	2.0
30.00 to 39.99	30	36.2	9.88	1.90	32.55	1.00	3.28	89.7	81.3	68.9	59.1	48.4	114.1	130.2	151.8	33.22		0.33	
40.00 to 49.99	40	45.5	6.80	1.82	25.32	0.47	3.10	90.2	81.6	68.7	57.2	45.8	114.8	132.3	153.9	44.30		0.497	2.3
50.00 to 59.99	50	57.5	9.33	1.92	24.87	0.58	2.30	88.7	78.9	65.4	54.2	43.4	112.2	126.4	143.6	55.37		0.419	2.5
60.00 to 74.99	60	68.7	10.4	1.29	26.99	0.35	2.18	89.0	79.7	66.8	55.4	44.4	112.3	126.0	141.8	66.45		0.757	
75.00 to 99.99	75	86.9	14.3	1.37	27.09	0.35	2.45	89.2	79.3	64.7	53.6	43.1	117.2	136.2	157.8	83.06		0.66	2.6
100.0 to 124.9	100	113.0	18.7	1.08	23.80	0.23	2.33	88.1	78.0	64.3	54.2	42.9	114.9	129.8	144.6	110.7		0.796	2.8
125.0 to 149.9	125	134.0	14.9	1.05	22.90	0.35	2.31	88.8	79.0	65.0	54.0	44.0	115.0	130.0	145.0	138.4		0.996	3.2
150.0 to 174.9	150	169.0	45.2	0.96	21.61	0.39	1.73	90.5	82.6	70.7	58.7	47.8	112.2	126.1	142.4	166.1		0.851	3.5
175.0 to 199.9	175	169.0	45.2	0.96	21.61	0.39	1.80	90.3	81.9	69.8	57.8	46.6	112.9	127.6	144.8	183.0			4.1
200.0 to 249.9	200	231.0	81.8	0.72	20.84	0.23	1.50	92.2	84.8	71.1	58.6	46.9	114.6	130.5	148.0	209.2		1.71	4.5
250.0 to 299.9	250	272.0	41.1	0.71	18.72	0.35	1.36	91.9	85.5	72.3	60.0	47.6	109.8	122.7	136.4	261.5		0.994	4.7
300.0 to 324.9	300	323.0	45.1	0.53	18.44	0.23	1.25	93.1	86.1	72.9	60.8	48.6	108.7	118.8	130.9	313.8		1.151	
325.0 to 349.9	325	323.0	45.1	0.53	18.44	0.23	1.33	92.2	84.9	72.7	60.5		109.9	122.2	137.8	339.9			5.0
350.0 to 399.9	350	375.0	68.3	0.99	19.24	0.46	1.27									366.1		1.126	5.5
400.0 to 449.9	400	429.0	80.7	1.11	18.92	0.46	1.81									418.4	90	1.098	5.6
450.0 to 499.9	450	481.0	85.5	0.95	19.01	0.48	1.77									470.7		1.107	
500.0 to 599.9	500	534.0	99.2	1.05	18.39	0.45	1.58	92.7	85.6	72.9	60.9	48.9	109.3	120.2	133.5	523.0		1.128	7.5
600.0 to 699.9	600						1.84									627.6		1.098	
700.0 to 749.9	700	638.0	140.0	0.85	18.38	0.39										732.2		0.578	9.8
750.0 to 799.9	750						1.70									784.0			
800.0 to	800															837.0		0.842	10.5

[5] When Fuji premium efficiency motor is selected by motor selection (Function code P99/A39/b39/r39 = 5)

■ **Three-phase 200V series**

Motor rated capacity setting range (kW) P02/A16 b16/r16	Applicable motor capacity (kW)	Rated current (A) P03/A17 b17/r17	No-load Current (A) P06/A20 b20/r20	%R1 (%) P07/A21 b21/r21	%X (%) P08/A22 b22/r22	Rated slip P12/A26 b26/r26	Iron loss factor 1 P13/A27 b27/r27	Magnetic saturation factor 1 P16/A30 b30/r30	Magnetic saturation factor 2 P17/A31 b31/r31	Magnetic saturation factor 3 P18/A32 b32/r32	Magnetic saturation factor 4 P19/A33 b33/r33	Magnetic saturation factor 5 P20/A34 b34/r34	Magnetic saturation expansion coefficient a P21/A35 b35/r35	Magnetic saturation expansion coefficient b P22/A36 b36/r36	Magnetic saturation expansion coefficient c P23/A37 b37/r37	Torque current for vector control P55/A55 b55/r55	Induced voltage factor for vector control P56/A56 b56/r56	For adjustment by manufacturer P57/A57 b57/r57	Starting characteristic (Auto search delay time 2) H46
0.01 to 0.09	0.06	0.44	0.40	13.79	11.75	1.77	140.00	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	0.20	85	0.027	0.5
0.10 to 0.19	0.1	0.68	0.55	12.96	12.67	1.77	14.00	93.3	86.1	74.4	63.6	50.7	108.8	118.7	129.6	0.34		0.024	
0.20 to 0.39	0.2	1.30	1.06	12.95	12.92	2.33	12.60	89.7	81.9	66.9	54.5	43.3	111.0	129.3	148.4	0.68		0.023	
0.40 to 0.74	0.4	2.30	1.66	10.20	13.66	2.40	9.88	88.7	81.3	67.0	55.2	43.8	112.1	126.5	144.3	1.36		0.027	
0.75 to 1.49	0.75	3.50	1.87	5.49	13.71	2.00	4.31	92.5	85.1	71.8	59.1	46.7	108.6	117.3	128.3	2.28	95	0.050	
1.50 to 2.19	1.5	6.90	3.96	5.04	13.70	1.67	4.21	89.6	79.6	66.1	54.1	42.9	115.5	131.1	148.4	4.56		0.085	0.6
2.20 to 3.69	2.2	9.50	5.46	4.07	12.98	1.67	3.94	89.4	79.3	65.8	53.9	42.7	115.5	131.1	148.4	6.69		0.092	
3.70 to 5.49	3.7	15.50	8.50	4.07	13.15	1.17	3.59	92.0	84.2	70.7	58.2	45.9	112.8	126.0	141.4	11.24		0.102	0.8
5.50 to 7.49	5.5	21.00	10.55	3.17	11.47	1.00	2.86	92.0	84.2	70.5	58.3	46.1	112.8	126.2	144.6	16.71		0.137	1.0
7.50 to 10.99	7.5	27.50	11.68	3.01	12.56	1.00	2.36	92.4	84.8	71.5	59.2	46.8	110.1	120.9	136.5	22.79		0.158	1.2
11.00 to 14.99	11	40.00	14.90	2.21	14.28	1.00	2.56	92.5	85.2	72.2	59.8	47.4	110.7	122.1	139.0	33.43		0.207	1.4
15.00 to 18.49	15	54.00	18.50	1.94	14.34	0.83	2.32	92.8	85.7	72.8	60.3	47.9	108.7	118.1	132.8	45.58		0.242	2.0
18.50 to 21.99	18.5	68.00	27.40	1.48	15.10	0.67	1.86	92.9	85.8	73.1	61.0	48.8	109.4	119.1	131.6	56.22		0.240	
22.00 to 29.99	22	84.00	33.60	1.46	15.29	0.83	1.91	92.7	85.5	72.6	60.5	48.5	110.5	121.3	135.2	66.85		0.238	
30.00 to 36.99	30	116.0	45.60	1.40	15.38	0.83	1.91	92.3	84.8	71.8	59.8	47.9	111.4	123.2	139.0	91.16		0.244	2.3
37.00 to 44.99	37	137.0	55.00	1.20	15.75	0.67	1.61	93.3	86.7	74.3	62.0	49.7	107.3	114.9	124.8	112.4		0.321	2.5
45.00 to 54.99	45	166.0	64.90	1.21	16.14	0.67	1.58	93.2	86.5	73.9	61.7	49.5	107.9	116.3	128.6	136.7		0.318	
55.00 to 74.99	55	208.0	88.00	1.36	14.44	0.50	1.73	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	189.0	84	0.304	2.6
75.00 to 89.99	75	272.0	90.00	1.46	17.78	0.50	1.33	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	257.7		0.452	3.0
90.00 to 109.9	90	324.0	112.0	1.45	15.67	0.50	1.33	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	305.7	85	0.430	3.2
110.0 to	110	384.0	136.0	1.29	14.80	0.33	1.27	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	360.8	88	0.527	3.5

■ **Three-phase 400 V series**

An 8-series motor provisional constant is set for motors with power output of 400 kW or higher.

Motor rated capacity setting range (kW) P02/A16 b16/r16	Applicable motor capacity (kW)	Rated current (A) P03/A17 b17/r17	No-load Current (A) P06/A20 b20/r20	%R1 (%) P07/A21 b21/r21	%X (%) P08/A22 b22/r22	Rated slip P12/A26 b26/r26	Iron loss factor 1 P13/A27 b27/r27	Magnetic saturation factor 1 P16/A30 b30/r30	Magnetic saturation factor 2 P17/A31 b31/r31	Magnetic saturation factor 3 P18/A32 b32/r32	Magnetic saturation factor 4 P19/A33 b33/r33	Magnetic saturation factor 5 P20/A34 b34/r34	Magnetic saturation expansion coefficient a P21/A35 b35/r35	Magnetic saturation expansion coefficient b P22/A36 b36/r36	Magnetic saturation expansion coefficient c P23/A37 b37/r37	Torque current for vector control P55/A55 b55/r55	Induced voltage factor for vector control P56/A56 b56/r56	For adjustment by manufacturer P57/A57 b57/r57	Starting characteristic (Auto search delay time 2) H46
0.01 to 0.09	0.06	0.22	0.20	13.19	11.75	1.77	14.00	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	0.10	85	0.027	0.5
0.10 to 0.19	0.1	0.35	0.27	12.96	12.67	1.77	14.00	93.3	86.1	74.4	63.6	50.7	108.8	118.7	129.6	0.17		0.024	
0.20 to 0.39	0.2	0.65	0.53	12.95	12.92	2.33	12.60	89.7	81.9	66.9	54.5	43.3	111.0	129.3	148.4.	0.34		0.023	
0.40 to 0.74	0.4	1.15	0.83	10.20	13.66	2.40	9.88	88.7	81.3	67.0	55.2	43.8	112.1	126.5	144.3	0.68		0.027	
0.75 to 1.49	0.75	1.80	0.94	5.49	13.71	2.00	4.31	92.5	85.1	71.8	59.1	46.7	108.6	117.3	128.3	1.14	95	0.050	
1.50 to 2.19	1.5	3.50	1.98	5.04	13.70	1.67	4.21	89.6	79.6	66.1	54.1	42.9	115.5	131.1	148.4	2.28		0.085	0.6
2.20 to 3.69	2.2	4.80	2.73	4.07	12.98	1.67	3.94	89.4	79.3	65.8	53.9	42.7	115.5	131.1	148.4	3.34		0.092	
3.70 to 5.49	3.7	7.80	4.25	4.07	13.15	1.17	3.59	92.0	84.2	70.7	58.2	45.9	112.8	126.0	141.4	5.62		0.102	0.8
5.50 to 7.49	5.5	10.50	5.28	3.17	11.47	1.00	2.86	92.0	84.2	70.5	58.3	46.1	112.8	126.2	144.6	8.36		0.137	1.0
7.50 to 10.99	7.5	13.50	5.84	3.01	12.56	1.00	2.36	92.4	84.8	71.5	59.2	46.8	110.1	120.9	136.5	11.40		0.158	1.2
11.00 to 14.99	11	20.00	7.45	2.21	14.28	1.00	2.56	92.5	85.2	72.2	59.8	47.4	110.7	122.1	139.0	16.71		0.207	1.4
15.00 to 18.49	15	27.00	9.25	1.94	14.34	0.83	2.32	92.8	85.7	72.8	60.3	47.9	108.7	118.1	132.8	22.79		0.242	2.0
18.50 to 21.99	18.5	34.00	13.70	1.48	15.10	0.67	1.86	92.9	85.8	73.1	61.0	48.8	109.4	119.1	131.6	28.11		0.240	
22.00 to 29.99	22	42.00	16.80	1.46	15.29	0.83	1.91	92.7	85.5	72.6	60.5	48.5	110.5	121.3	135.2	33.43		0.238	
30.00 to 36.99	30	58.00	22.80	1.40	15.38	0.83	1.91	92.3	84.8	71.8	59.8	47.9	111.4	123.2	139.0	45.58		0.244	2.3
37.00 to 44.99	37	69.00	27.50	1.20	15.75	0.67	1.61	93.3	86.7	74.3	62.0	49.7	107.3	114.9	124.8	56.22		0.321	2.5
45.00 to 54.99	45	83.00	32.45	1.21	16.14	0.67	1.58	93.2	86.5	73.9	61.7	49.5	107.9	116.3	128.6	68.37		0.318	
55.00 to 74.99	55	104.0	44.00	1.36	14.44	0.50	1.73	93.8	87.5	75.0	62.5	50.0	106.3	112.5	118.8	93.39	84	0.304	2.6
75.00 to 89.99	75	136.0	45.00	1.46	17.78	0.50	1.33									127.4		0.452	3.0
90.00 to 109.9	90	162.0	56.00	1.45	15.67	0.50	1.33									152.8	85	0.430	3.2
110.0 to 131.9	110	192.0	68.00	1.29	14.80	0.33	1.27									186.8	88	0.527	3.5
132.0 to 159.9	132	230.0	72.00	1.11	14.74	0.33	1.21									211.7	87	0.583	4.1
160.0 to 199.9	160	285.0	95.00	0.99	19.09	0.67	1.06									256.6	86	0.488	4.5
200.0 to 219.9	200	352.0	122.0	1.00	18.33	0.67	1.00									320.8	87	0.466	4.7
220.0 to 249.9	220	390.0	144.0	0.82	18.14	0.67	1.14									352.8	88	0.451	
250.0 to 299.9	250	450.0	164.0	0.87	19.48	0.67	1.12									400.9	86	0.426	5.0
300.0 to 314.9	300	532.0	179.0	0.93	21.04	0.67	1.00									481.1		0.425	5.5
315.0 to 354.9	315	554.0	183.0	0.80	20.07	0.50	1.11									505.2	87	0.556	5.6
355.0 to 374.9	355	620.0	200.0	0.78	19.59	0.50	1.07									569.3		0.570	
375.0 to 399.9	375	660.0	223.0	0.74	19.10	0.50	1.15									601.4		0.565	
400.0 to 449.9	400	670.0	200.0	0.62	15.67	0.29	1.58	92.7	85.6	72.9	60.9	48.9	109.3	120.2	133.5	641.5	90	0.683	7.5
450.0 to 499.9	450	770.0	270.0	0.48	13.03	0.23	1.84									721.7		0.694	9.8
500.0 to 559.9	500	835.0		0.51	12.38	0.18	1.80									801.9		1.393	
560.0 to 629.9	560	940.0		0.57	13.94	0.20	1.61									898.1			
630.0 to 709.9	630	1050.0	355.0	0.46	11.77	0.17	1.29									1010		1.395	10.5
710.0 to	710	1150.0	290.0	0.54	14.62	0.21	0.97									1139		1.560	