

The following tables list the function codes available for the FRENIC-MEGA series of inverters.

F codes: Fundamental Functions

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
F00	Data Protection	0: Disable both data protection and digital reference protection 1: Enable data protection and disable digital reference protection 2: Disable data protection and enable digital reference protection 3: Enable both data protection and digital reference protection	Y	Y	0	Y	Y	Y	Y	Y	5-29
F01	Frequency Command 1	0: ⏪ / ⏩ keys on keypad 1: Voltage input to terminal [12] (-10 to +10 VDC) 2: Current input to terminal [C1] (4 to 20 mA DC) 3: Sum of voltage and current inputs to terminals [12] and [C1] 5: Voltage input to terminal [V2] (0 to 10 VDC) 7: Terminal command UP/DOWN control 8: ⏪ / ⏩ keys on keypad (balanceless-bumpless switching available) 11: Digital input interface card (option) 12: Pulse train input	N	Y	0	Y	Y	Y	Y	N	
F02	Operation Method	0: RUN/STOP keys on keypad (Motor rotational direction specified by terminal command FWD/REV) 1: Terminal command FWD or REV 2: RUN/STOP keys on keypad (forward) 3: RUN/STOP keys on keypad (reverse)	N	Y	2	Y	Y	Y	Y	Y	5-35
F03	Maximum Frequency 1	25.0 to 500.0 Hz	N	Y	*1	Y	Y	Y	Y	Y	5-36
F04	Base Frequency 1	25.0 to 500.0 Hz	N	Y	50.0	Y	Y	Y	Y	Y	
F05	Rated Voltage at Base Frequency 1	0: Output a voltage in proportion to input voltage 80 to 240 V: Output an AVR-controlled voltage (for 200 V class series) 160 to 500 V: Output an AVR-controlled voltage (for 400 V class series)	N	Y2	*1	Y	Y	Y	Y	Y	
F06	Maximum Output Voltage 1	80 to 240 V: Output an AVR-controlled voltage (for 200 V class series) 160 to 500 V: Output an AVR-controlled voltage (for 400 V class series)	N	Y2	*1	Y	Y	N	N	Y	
F07	Acceleration Time 1	0.00 to 6000 s	Y	Y	*2	Y	Y	Y	Y	N	5-38
F08	Deceleration Time 1	Note: Entering 0.00 cancels the acceleration time, requiring external soft-start.	Y	Y	*2	Y	Y	Y	Y	N	
F09	Torque Boost 1	0.0% to 20.0% (percentage with respect to "Rated Voltage at Base Frequency 1")	Y	Y	*3	Y	Y	N	N	N	5-40 5-55
F10	Electronic Thermal Overload Protection for Motor 1 (Select motor characteristics)	1: For a general-purpose motor with shaft-driven cooling fan 2: For an inverter-driven motor, non-ventilated motor, or motor with separately powered cooling fan	Y	Y	1	Y	Y	Y	Y	Y	5-41
F11	(Overload detection level)	0.00: Disable 1% to 135% of the rated current (allowable continuous drive current) of the motor	Y	Y1 Y2	*4	Y	Y	Y	Y	Y	
F12	(Thermal time constant)	0.5 to 75.0 min	Y	Y	*5	Y	Y	Y	Y	Y	
F14	Restart Mode after Momentary Power Failure (Mode selection)	0: Trip immediately 1: Trip after a recovery from power failure 2: Trip after decelerate-to-stop 3: Continue to run, for heavy inertia or general loads 4: Restart at the frequency at which the power failure occurred, for general loads 5: Restart at the starting frequency	Y	Y	1	Y	Y	Y	Y	N	5-43
F15	Frequency Limiter (High)	0.0 to 500.0 Hz	Y	Y	70.0	Y	Y	Y	Y	N	5-49
F16	(Low)	0.0 to 500.0 Hz	Y	Y	0.0	Y	Y	Y	Y	N	
F18	Bias (Frequency command 1)	-100.00% to 100.00%	Y*	Y	0.00	Y	Y	Y	Y	N	5-29 5-49
F20	DC Braking 1 (Braking starting frequency)	0.0 to 60.0 Hz	Y	Y	0.0	Y	Y	Y	Y	N	5-49
F21	(Braking level)	0% to 100% (HD mode), 0% to 80% (MD/LD mode)	Y	Y	0	Y	Y	Y	Y	N	
F22	(Braking time)	0.00 (Disable); 0.01 to 30.00 s	Y	Y	0.00	Y	Y	Y	Y	N	
F23	Starting Frequency 1	0.0 to 60.0 Hz	Y	Y	0.5	Y	Y	Y	Y	N	5-51
F24	(Holding time)	0.00 to 10.00 s	Y	Y	0.00	Y	Y	Y	Y	N	
F25	Stop Frequency	0.0 to 60.0 Hz	Y	Y	0.2	Y	Y	Y	Y	N	

The shaded function codes () are applicable to the quick setup.

*1 The factory default differs depending upon the shipping destination. See Table A.

*2 6.00 s for inverters with a capacity of 22 kW or below; 20.00 s for those with 30 kW or above

*3 The factory default differs depending upon the inverter's capacity. See Table B.

*4 The motor rated current is automatically set. See Table C (function code P03).

*5 5.0 min for inverters with a capacity of 22 kW or below; 10.0 min for those with 30 kW or above

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
F26	Motor Sound (Carrier frequency)	0.75 to 16 kHz (HD-mode inverters with 55 kW or below and LD-mode ones with 18.5 kW or below) 0.75 to 10 kHz (HD-mode inverters with 75 to 400 kW and LD-mode ones with 22 to 55 kW) 0.75 to 6 kHz (HD-mode inverters with 500 and 630 kW and LD-mode ones with 75 to 500 kW) 0.75 to 4 kHz (LD-mode inverters with 630 kW) 0.75 to 2 kHz (MD-mode inverters with 90 to 400 kW)	Y	Y	2 (Asia) 15 (EU)	Y	Y	Y	Y	Y	5-53
F27	(Tone)	0: Level 0 (Inactive) 1: Level 1 2: Level 2 3: Level 3	Y	Y	0	Y	Y	N	N	Y	
F29	Analog Output [FM1] (Mode selection)	0: Output in voltage (0 to 10 VDC) 1: Output in current (4 to 20 mA DC)	Y	Y	0	Y	Y	Y	Y	Y	5-54
F30	(Voltage adjustment)	0% to 300%	Y*	Y	100	Y	Y	Y	Y	Y	
F31	(Function)	Select a function to be monitored from the followings. 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: Input power 7: PID feedback amount 8: PG feedback value 9: DC link bus voltage 10: Universal AO 13: Motor output 14: Calibration (+) 15: PID command (SV) 16: PID output (MV)	Y	Y	0	Y	Y	Y	Y	Y	
F32	Analog Output [FM2] (Mode selection)	0: Output in voltage (0 to 10 VDC) 1: Output in current (4 to 20 mA DC)	Y	Y	0	Y	Y	Y	Y	Y	
F34	(Voltage adjustment)	0% to 300%	Y*	Y	100	Y	Y	Y	Y	Y	
F35	(Function)	Select a function to be monitored from the followings. 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: Input power 7: PID feedback amount 8: PG feedback value 9: DC link bus voltage 10: Universal AO 13: Motor output 14: Calibration 15: PID command (SV) 16: PID output (MV)	Y	Y	0	Y	Y	Y	Y	Y	
F37	Load Selection/ Auto Torque Boost/ Auto Energy Saving Operation 1	0: Variable torque load 1: Constant torque load 2: Auto torque boost 3: Auto energy saving (Variable torque load during ACC/DEC) 4: Auto energy saving (Constant torque load during ACC/DEC) 5: Auto energy saving (Auto torque boost during ACC/DEC)	N	Y	1	Y	Y	N	Y	N	5-55
F38	Stop Frequency (Detection mode)	0: Detected speed 1: Reference speed	N	Y	0	N	N	N	Y	N	5-51
F39	(Holding Time)	0.00 to 10.00 s	Y	Y	0.00	Y	Y	Y	Y	N	5-57
F40	Torque Limiter 1-1	-300% to 300%; 999 (Disable)	Y	Y	999	Y	Y	Y	Y	Y	5-57
F41	1-2	-300% to 300%; 999 (Disable)	Y	Y	999	Y	Y	Y	Y	Y	
F42	Drive Control Selection 1	0: V/f control with slip compensation inactive 1: Dynamic torque vector control 2: V/f control with slip compensation active 3: V/f control with speed sensor 4: Dynamic torque vector control with speed sensor 5: Vector control without speed sensor 6: Vector control with speed sensor	N	Y	0	Y	Y	Y	Y	Y	5-62
F43	Current Limiter (Mode selection)	0: Disable (No current limiter works.) 1: Enable at constant speed (Disable during ACC/DEC) 2: Enable during ACC/constant speed operation	Y	Y	2	Y	Y	N	N	N	5-64
F44	(Level)	20% to 200% (The data is interpreted as the rated output current of the inverter for 100%.)	Y	Y	160	Y	Y	N	N	N	
F50	Electronic Thermal Overload Protection for Braking Resistor (Discharging capability)	0 (Braking resistor built-in type), 1 to 9000 kW, OFF (Disable)	Y	Y1 Y2	*6	Y	Y	Y	Y	Y	
F51	(Allowable average loss)	0.001 to 99.99 kW	Y	Y1 Y2	0.001	Y	Y	Y	Y	Y	
F52	(Resistance)	0.01 to 999Ω	Y	Y1 Y2	0.01	Y	Y	Y	Y	Y	
F80	Switching between HD, MD and LD drive modes	0: HD (High Duty) mode 1: LD (Low Duty) mode 2: MD (Medium Duty) mode	N	Y	0	Y	Y	Y	Y	Y	5-66

The shaded function codes () are applicable to the quick setup.
*6 0 for inverters with a capacity of 7.5 kW or below; OFF for those with 11 kW or above

F codes

E codes

C codes

P codes

H codes

A codes

b codes

r codes

J codes

d codes

U codes

y codes


E codes: Extension Terminal Functions

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
		Selecting function code data assigns the corresponding function to terminals [X1] to [X7] as listed below.									5-67
E01	Terminal [X1] Function	0 (1000): Select multi-frequency (0 to 1 steps) (SS1)	N	Y	0	Y	Y	Y	Y	N	
E02	Terminal [X2] Function	1 (1001): Select multi-frequency (0 to 3 steps) (SS2)	N	Y	1	Y	Y	Y	Y	N	
E03	Terminal [X3] Function	2 (1002): Select multi-frequency (0 to 7 steps) (SS4)	N	Y	2	Y	Y	Y	Y	N	
E04	Terminal [X4] Function	3 (1003): Select multi-frequency (0 to 15 steps) (SS8)	N	Y	3	Y	Y	Y	Y	N	
E05	Terminal [X5] Function	4 (1004): Select ACC/DEC time (2 steps) (RT1)	N	Y	4	Y	Y	Y	Y	N	
E06	Terminal [X6] Function	5 (1005): Select ACC/DEC time (4 steps) (RT2)	N	Y	5	Y	Y	Y	Y	N	
E07	Terminal [X7] Function	6 (1006): Enable 3-wire operation (HLD)	N	Y	8	Y	Y	Y	Y	Y	
		7 (1007): Coast to a stop (BX)				Y	Y	Y	Y	Y	
		8 (1008): Reset alarm (RST)				Y	Y	Y	Y	Y	
		9 (1009): Enable external alarm trip (THR) (9 = Active OFF, 1009 = Active ON)				Y	Y	Y	Y	Y	
		10 (1010): Ready for jogging (JOG)				Y	Y	Y	Y	N	
		11 (1011): Select frequency command 2/1 (Hz2/Hz1)				Y	Y	Y	Y	N	
		12 (1012): Select motor 2 (M2)				Y	Y	Y	Y	Y	
		13: Enable DC braking (DCBRK)				Y	Y	Y	Y	N	
		14 (1014): Select torque limiter level 2/1 (TL2/TL1)				Y	Y	Y	Y	Y	
		15: Switch to commercial power (50 Hz) (SW50)				Y	Y	N	N	N	
		16: Switch to commercial power (60 Hz) (SW60)				Y	Y	N	N	N	
		17 (1017): UP (Increase output frequency) (UP)				Y	Y	Y	Y	N	
		18 (1018): DOWN (Decrease output frequency) (DOWN)				Y	Y	Y	Y	N	
		19 (1019): Enable data change with keypad (WE-KP)				Y	Y	Y	Y	Y	
		20 (1020): Cancel PID control (Hz/PID)				Y	Y	Y	Y	N	
		21 (1021): Switch normal/inverse operation (IVS)				Y	Y	Y	Y	N	
		22 (1022): Interlock (IL)				Y	Y	Y	Y	Y	
		23 (1023): Cancel torque control (Hz/TRQ)				N	N	N	N	Y	
		24 (1024): Enable communications link via RS-485 or fieldbus (option) (LE)				Y	Y	Y	Y	Y	
		25 (1025): Universal DI (U-DI)				Y	Y	Y	Y	Y	
		26 (1026): Enable auto search for idling motor speed at starting (STM)				Y	Y	Y	N	Y	
		30 (1030): Force to stop (STOP) ((30 = Active OFF, 1030 = Active ON)				Y	Y	Y	Y	Y	
		32 (1032): Pre-excitation (EXITE)				N	N	Y	Y	N	
		33 (1033): Reset PID integral and differential components (PID-RST)				Y	Y	Y	Y	N	
		34 (1034): Hold PID integral component (PID-HLD)				Y	Y	Y	Y	N	
		35 (1035): Select local (keypad) operation (LOC)				Y	Y	Y	Y	Y	
		36 (1036): Select motor 3 (M3)				Y	Y	Y	Y	Y	
		37 (1037): Select motor 4 (M4)				Y	Y	Y	Y	Y	
		39: Protect motor from dew condensation (DWP)				Y	Y	Y	Y	Y	
		40: Enable integrated sequence to switch to commercial power (50 Hz) (ISW50)				Y	Y	N	N	N	
		41: Enable integrated sequence to switch to commercial power (60 Hz) (ISW60)				Y	Y	N	N	N	
		47 (1047): Servo-lock command (LOCK)				N	N	N	Y	N	
		48: Pulse train input (available only on terminal [X7] (E07)) (PIN)				Y	Y	Y	Y	Y	
		49 (1049): Pulse train sign (available on terminals except [X7] (E01 to E06)) (SIGN)				Y	Y	Y	Y	Y	
		70 (1070): Cancel constant peripheral speed control (Hz/LSC)				Y	Y	Y	Y	N	
		71 (1071): Hold the constant peripheral speed control frequency in the memory (LSC-HLD)				Y	Y	Y	Y	N	
		72 (1072): Count the run time of commercial power-driven motor 1 (CRUN-M1)				Y	Y	N	N	Y	
		73 (1073): Count the run time of commercial power-driven motor 2 (CRUN-M2)				Y	Y	N	N	Y	
		74 (1074): Count the run time of commercial power-driven motor 3 (CRUN-M3)				Y	Y	N	N	Y	
		75 (1075): Count the run time of commercial power-driven motor 4 (CRUN-M4)				Y	Y	N	N	Y	
		76 (1076): Select droop control (DROOP)				Y	Y	Y	Y	N	
		77 (1077): Cancel PG alarm (PG-CCL)				N	Y	N	Y	Y	
		80 (1080): Cancel customizable logic (CLC)				Y	Y	Y	Y	Y	
		81 (1081): Clear all customizable logic timers (CLTC)				Y	Y	Y	Y	Y	
		100: No function assigned (NONE)				Y	Y	Y	Y	Y	
		Setting the value in parentheses () shown above assigns a negative logic input to a terminal.									
E10	Acceleration Time 2	0.00 to 6000 s	Y	Y	*2	Y	Y	Y	Y	N	5-38
E11	Deceleration Time 2	Note: Entering 0.00 cancels the acceleration time, requiring external soft-start and -stop.	Y	Y	*2	Y	Y	Y	Y	N	5-77
E12	Acceleration Time 3		Y	Y	*2	Y	Y	Y	Y	N	
E13	Deceleration Time 3		Y	Y	*2	Y	Y	Y	Y	N	
E14	Acceleration Time 4		Y	Y	*2	Y	Y	Y	Y	N	
E15	Deceleration Time 4		Y	Y	*2	Y	Y	Y	Y	N	

*2 6.00 s for inverters with a capacity of 22 kW or below; 20.00 s for those with 30 kW or above

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
E16	Torque Limiter 2-1	-300% to 300%; 999 (Disable)	Y	Y	999	Y	Y	Y	Y	Y	5-57
E17	Torque Limiter 2-2	-300% to 300%; 999 (Disable)	Y	Y	999	Y	Y	Y	Y	Y	5-77
		Selecting function code data assigns the corresponding function to terminals [Y1] to [Y5A/C] and [30A/B/C] as listed below.									5-77
E20	Terminal [Y1] Function	0 (1000): Inverter running (RUN)	N	Y	0	Y	Y	Y	Y	Y	
E21	Terminal [Y2] Function	1 (1001): Frequency (speed) arrival signal (FAR)	N	Y	1	Y	Y	Y	Y	N	
E22	Terminal [Y3] Function	2 (1002): Frequency (speed) detected (FDT)	N	Y	2	Y	Y	Y	Y	Y	
E23	Terminal [Y4] Function	3 (1003): Undervoltage detected (Inverter stopped) (LU)	N	Y	7	Y	Y	Y	Y	Y	
E24	Terminal [Y5A/C] Function	4 (1004): Torque polarity detected (B/D)	N	Y	15	Y	Y	Y	Y	Y	
E27	Terminal [30A/B/C] Function (Relay output)	5 (1005): Inverter output limiting (IOL)	N	Y	99	Y	Y	Y	Y	Y	
		6 (1006): Auto-restarting after momentary power failure (IPF)				Y	Y	Y	Y	Y	
		7 (1007): Motor overload early warning (OL)				Y	Y	Y	Y	Y	
		8 (1008): Keypad operation enabled (KP)				Y	Y	Y	Y	Y	
		10 (1010): Inverter ready to run (RDY)				Y	Y	Y	Y	Y	
		11: Switch motor drive source between commercial power and inverter output (For MC on commercial line) (SW88)				Y	Y	N	N	N	
		12: Switch motor drive source between commercial power and inverter output (For secondary side) (SW52-2)				Y	Y	N	N	N	
		13: Switch motor drive source between commercial power and inverter output (For primary side) (SW52-1)				Y	Y	N	N	N	
		15 (1015): Select AX terminal function (For MC on primary side) (AX)				Y	Y	Y	Y	Y	
		22 (1022): Inverter output limiting with delay (IOL2)				Y	Y	Y	Y	Y	
		25 (1025): Cooling fan in operation (FAN)				Y	Y	Y	Y	Y	
		26 (1026): Auto-resetting (TRY)				Y	Y	Y	Y	Y	
		27 (1027): Universal DO (U-DO)				Y	Y	Y	Y	Y	
		28 (1028): Heat sink overheat early warning (OH)				Y	Y	Y	Y	Y	
		30 (1030): Lifetime alarm (LIFE)				Y	Y	Y	Y	Y	
		31 (1031): Frequency (speed) detected 2 (FDT2)				Y	Y	Y	Y	Y	
		33 (1033): Reference loss detected (REF OFF)				Y	Y	Y	Y	Y	
		35 (1035): Inverter output on (RUN2)				Y	Y	Y	Y	Y	
		36 (1036): Overload prevention control (OLP)				Y	Y	Y	Y	N	
		37 (1037): Current detected (ID)				Y	Y	Y	Y	Y	
		38 (1038): Current detected 2 (ID2)				Y	Y	Y	Y	Y	
		39 (1039): Current detected 3 (ID3)				Y	Y	Y	Y	Y	
		41 (1041): Low current detected (IDL)				Y	Y	Y	Y	Y	
		42 (1042): PID alarm (PID-ALM)				Y	Y	Y	Y	N	
		43 (1043): Under PID control (PID-CTL)				Y	Y	Y	Y	N	
		44 (1044): Motor stopped due to slow flowrate under PID control (PID-STP)				Y	Y	Y	Y	N	
		45 (1045): Low output torque detected (U-TL)				Y	Y	Y	Y	Y	
		46 (1046): Torque detected 1 (TD1)				Y	Y	Y	Y	Y	
		47 (1047): Torque detected 2 (TD2)				Y	Y	Y	Y	Y	
		48 (1048): Motor 1 selected (SWM1)				Y	Y	Y	Y	Y	
		49 (1049): Motor 2 selected (SWM2)				Y	Y	Y	Y	Y	
		50 (1050): Motor 3 selected (SWM3)				Y	Y	Y	Y	Y	
		51 (1051): Motor 4 selected (SWM4)				Y	Y	Y	Y	Y	
		52 (1052): Running forward (FRUN)				Y	Y	Y	Y	Y	
		53 (1053): Running reverse (RRUN)				Y	Y	Y	Y	Y	
		54 (1054): In remote operation (RMT)				Y	Y	Y	Y	Y	
		56 (1056): Motor overheat detected by thermistor (THM)				Y	Y	Y	Y	Y	
		57 (1057): Brake signal (BRKS)				Y	Y	Y	Y	N	
		58 (1058): Frequency (speed) detected 3 (FDT3)				Y	Y	Y	Y	Y	
		59 (1059): Terminal [C1] wire break (C1OFF)				Y	Y	Y	Y	Y	
		70 (1070): Speed valid (DNZS)				N	Y	Y	Y	Y	
		71 (1071): Speed agreement (DSAG)				N	Y	Y	Y	N	
		72 (1072): Frequency (speed) arrival signal 3 (FAR3)				Y	Y	Y	Y	N	
		76 (1076): PG error detected (PG-ERR)				N	Y	Y	Y	N	
		82 (1082): Positioning completion signal (PSET)				N	N	N	Y	N	
		84 (1084): Maintenance timer (MNT)				Y	Y	Y	Y	Y	
		98 (1098): Light alarm (L-ALM)				Y	Y	Y	Y	Y	
		99 (1099): Alarm output (for any alarm) (ALM)				Y	Y	Y	Y	Y	
		101 (1101): Enable circuit failure detected (DECF)				Y	Y	Y	Y	Y	
		102 (1102): Enable input OFF (EN OFF)				Y	Y	Y	Y	Y	
		105 (1105): Braking transistor broken (DBAL)				Y	Y	Y	Y	Y	
		111 (1111): Customizable logic output signal 1 (CLO1)				Y	Y	Y	Y	Y	
		112 (1112): Customizable logic output signal 2 (CLO2)				Y	Y	Y	Y	Y	
		113 (1113): Customizable logic output signal 3 (CLO3)				Y	Y	Y	Y	Y	
		114 (1114): Customizable logic output signal 4 (CLO4)				Y	Y	Y	Y	Y	
		115 (1115): Customizable logic output signal 5 (CLO5)				Y	Y	Y	Y	Y	
		Setting the value in parentheses () shown above assigns a negative logic output to a terminal.									

F codes
E codes
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y codes

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
E30	Frequency Arrival (Hysteresis width)	0.0 to 10.0 Hz	Y	Y	2.5	Y	Y	Y	Y	N	5-82
E31	Frequency Detection 1 (Level)	0.0 to 500.0 Hz	Y	Y	*1	Y	Y	Y	Y	N	
E32	(Hysteresis width)	0.0 to 500.0 Hz	Y	Y	1.0	Y	Y	Y	Y	N	
E34	Overload Early Warning/Current Detection (Level)	0.00 (Disable); Current value of 1% to 200% of the inverter rated current	Y	Y1 Y2	*4	Y	Y	Y	Y	Y	5-83
E35	(Timer)	0.01 to 600.00s	Y	Y	10.00	Y	Y	Y	Y	Y	
E36	Frequency Detection 2 (Level)	0.0 to 500.0 Hz	Y	Y	*1	Y	Y	Y	Y	Y	5-82
E37	Current Detection 2/ Low Current Detection (Level)	0.00 (Disable); Current value of 1% to 200% of the inverter rated current	Y	Y1 Y2	*4	Y	Y	Y	Y	Y	5-83
E38	(Timer)	0.01 to 600.00 s	Y	Y	10.00	Y	Y	Y	Y	Y	
E40	PID Display Coefficient A	-999 to 0.00 to 9990	Y	Y	100	Y	Y	Y	Y	N	5-84
E41	PID Display Coefficient B	-999 to 0.00 to 9990	Y	Y	0.00	Y	Y	Y	Y	N	
E42	LED Display Filter	0.0 to 5.0 s	Y	Y	0.5	Y	Y	Y	Y	Y	5-85
E43	LED Monitor (Item selection)	0: Speed monitor (select by E48) 3: Output current 4: Output voltage 8: Calculated torque 9: Input power 10: PID command 12: PID feedback amount 14: PID output 15: Load factor 16: Motor output 17: Analog input 23: Torque current (%) 24: Magnetic flux command (%) 25: Input watt-hour	Y	Y	0	Y	Y	Y	Y	Y	5-86
E44	(Display when stopped)	0: Specified value 1: Output value	Y	Y	0	Y	Y	Y	Y	Y	
E45	LCD Monitor (Item selection)	0: Running status, rotational direction and operation guide 1: Bar charts for output frequency, current and calculated torque	Y	Y	0	Y	Y	Y	Y	Y	5-87
E46	(Language selection)	Multi-function keypad (option) Type: TP-G1 Type: TP-G1C 0: Japanese 0: Chinese 1: English 1: English 2: German 2: Japanese 3: French 3: Korean 4: Spanish 5: Italian	Y	Y	1	Y	Y	Y	Y	Y	
E47	(Contrast control)	0 (Low) to 10 (High)	Y	Y	5	Y	Y	Y	Y	Y	
E48	LED Monitor (Speed monitor item)	0: Output frequency 1 (Before slip compensation) 1: Output frequency 2 (After slip compensation) 2: Reference frequency 3: Motor speed in r/min 4: Load shaft speed in r/min 5: Line speed in m/min 7: Display speed in %	Y	Y	0	Y	Y	Y	Y	Y	5-86
E50	Coefficient for Speed Indication	0.01 to 200.00	Y	Y	30.00	Y	Y	Y	Y	Y	5-88
E51	Display Coefficient for Input Watt-hour Data	0.000 (Cancel/reset), 0.001 to 9999	Y	Y	0.010	Y	Y	Y	Y	Y	
E52	Keypad (Menu display mode)	0: Function code data editing mode (Menus #0, #1, and #7) 1: Function code data check mode (Menu #2 and #7) 2: Full-menu mode	Y	Y	0	Y	Y	Y	Y	Y	
E54	Frequency Detection 3 (Level)	0.0 to 500.0 Hz	Y	Y	*1	Y	Y	Y	Y	Y	5-82
E55	Current Detection 3 (Level)	0.00 (Disable); Current value of 1% to 200% of the inverter rated current	Y	Y1 Y2	*4	Y	Y	Y	Y	Y	5-83
E56	(Timer)	0.01 to 600.00 s	Y	Y	10.00	Y	Y	Y	Y	Y	5-89
E61	Terminal [12] Extended Function	0: None	N	Y	0	Y	Y	Y	Y	Y	5-90
E62	Terminal [C1] Extended Function	1: Auxiliary frequency command 1	N	Y	0	Y	Y	Y	Y	Y	
E63	Terminal [V2] Extended Function	2: Auxiliary frequency command 2	N	Y	0	Y	Y	Y	Y	Y	
		3: PID command 1 5: PID feedback amount 6: Ratio setting 7: Analog torque limit value A 8: Analog torque limit value B 10: Torque command 11: Torque current command 20: Analog input monitor	N	Y	0	Y	Y	Y	Y	Y	
E64	Saving of Digital Reference Frequency	0: Automatic saving (when main power is turned OFF) 1: Saving by pressing  key	Y	Y	1	Y	Y	Y	Y	Y	
E65	Reference Loss Detection	0: Decelerate to stop, 20% to 120%, 999: Disable	Y	Y	999	Y	Y	Y	Y	Y	
E78	Torque Detection 1 (Level)	0% to 300%	Y	Y	100	Y	Y	Y	Y	Y	5-91
E79	(Timer)	0.01 to 600.00 s	Y	Y	10.00	Y	Y	Y	Y	Y	
E80	Torque Detection 2/ Low Torque Detection (Level)	0% to 300%	Y	Y	20	Y	Y	Y	Y	Y	
E81	(Timer)	0.01 to 600.00 s	Y	Y	20.00	Y	Y	Y	Y	Y	

The shaded function codes () are applicable to the quick setup.

*1 The factory default differs depending upon the shipping destination. See Table A.

*4 The motor rated current is automatically set. See Table C (function code P03).

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
		Selecting function code data assigns the corresponding function to terminals [FWD] and [REV] as listed below.									5-67 5-92
E98	Terminal [FWD] Function	0 (1000): Select multi-frequency (0 to 1 steps) (SS1)	N	Y	98	Y	Y	Y	Y	N	
E99	Terminal [REV] Function	1 (1001): Select multi-frequency (0 to 3 steps) (SS2)	N	Y	99	Y	Y	Y	Y	N	
		2 (1002): Select multi-frequency (0 to 7 steps) (SS4)				Y	Y	Y	Y	N	
		3 (1003): Select multi-frequency (0 to 15 steps) (SS8)				Y	Y	Y	Y	N	
		4 (1004): Select ACC/DEC time (2 steps) (RT1)				Y	Y	Y	Y	N	
		5 (1005): Select ACC/DEC time (4 steps) (RT2)				Y	Y	Y	Y	N	
		6 (1006): Enable 3-wire operation (HLD)				Y	Y	Y	Y	Y	
		7 (1007): Coast to a stop (BX)				Y	Y	Y	Y	Y	
		8 (1008): Reset alarm (RST)				Y	Y	Y	Y	Y	
		9 (1009): Enable external alarm trip (THR) (9 = Active OFF, 1009 = Active ON)				Y	Y	Y	Y	Y	
		10 (1010): Ready for jogging (JOG)				Y	Y	Y	Y	N	
		11 (1011): Select frequency command 2/1 (Hz2/Hz1)				Y	Y	Y	Y	N	
		12 (1012): Select motor 2 (M2)				Y	Y	Y	Y	Y	
		13: Enable DC braking (DCBRK)				Y	Y	Y	Y	N	
		14 (1014): Select torque limiter level 2/1 (TL2/TL1)				Y	Y	Y	Y	Y	
		15: Switch to commercial power (50 Hz) (SW50)				Y	Y	N	N	N	
		16: Switch to commercial power (60 Hz) (SW60)				Y	Y	N	N	N	
		17 (1017): UP (Increase output frequency) (UP)				Y	Y	Y	Y	N	
		18 (1018): DOWN (Decrease output frequency) (DOWN)				Y	Y	Y	Y	N	
		19 (1019): Enable data change with keypad (WE-KP)				Y	Y	Y	Y	Y	
		20 (1020): Cancel PID control (Hz/PID)				Y	Y	Y	Y	N	
		21 (1021): Switch normal/inverse operation (IVS)				Y	Y	Y	Y	N	
		22 (1022): Interlock (IL)				Y	Y	Y	Y	Y	
		23 (1023): Cancel torque control (Hz/TRQ)				N	N	N	N	Y	
		24 (1024): Enable communications link via RS-485 or fieldbus (LE)				Y	Y	Y	Y	Y	
		25 (1025): Universal DI (U-DI)				Y	Y	Y	Y	Y	
		26 (1026): Enable auto search for idling motor speed at starting (STM)				Y	Y	Y	N	Y	
		30 (1030): Force to stop (STOP) ((30 = Active OFF, 1030 = Active ON)				Y	Y	Y	Y	Y	
		32 (1032): Pre-excitation (EXITE)				N	N	Y	Y	N	
		33 (1033): Reset PID integral and differential components (PID-RST)				Y	Y	Y	Y	N	
		34 (1034): Hold PID integral component (PID-HLD)				Y	Y	Y	Y	N	
		35 (1035): Select local (keypad) operation (LOC)				Y	Y	Y	Y	Y	
		36 (1036): Select motor 3 (M3)				Y	Y	Y	Y	Y	
		37 (1037): Select motor 4 (M4)				Y	Y	Y	Y	Y	
		39: Protect motor from dew condensation (DWP)				Y	Y	Y	Y	Y	
		40: Enable integrated sequence to switch to commercial power (50 Hz) (ISW50)				Y	Y	N	N	N	
		41: Enable integrated sequence to switch to commercial power (60 Hz) (ISW60)				Y	Y	N	N	N	
		47 (1047): Servo-lock command (LOCK)				N	N	N	Y	N	
		49 (1049): Pulse train sign (SIGN)				Y	Y	Y	Y	Y	
		70 (1070): Cancel constant peripheral speed control (Hz/LSC)				Y	Y	Y	Y	N	
		71 (1071): Hold the constant peripheral speed control frequency in the memory (LSC-HLD)				Y	Y	Y	Y	N	
		72 (1072): Count the run time of commercial power-driven motor 1 (CRUN-M1)				Y	Y	N	N	Y	
		73 (1073): Count the run time of commercial power-driven motor 2 (CRUN-M2)				Y	Y	N	N	Y	
		74 (1074): Count the run time of commercial power-driven motor 3 (CRUN-M3)				Y	Y	N	N	Y	
		75 (1075): Count the run time of commercial power-driven motor 4 (CRUN-M4)				Y	Y	N	N	Y	
		76 (1076): Select droop control (DROOP)				Y	Y	Y	Y	N	
		77 (1077): Cancel PG alarm (PG-CCL)				N	Y	N	Y	Y	
		80 (1080): Cancel customizable logic (CLC)				Y	Y	Y	Y	Y	
		81 (1081): Clear all customizable logic timers (CLTC)				Y	Y	Y	Y	Y	
		98: Run forward (FWD)				Y	Y	Y	Y	Y	
		99: Run reverse (REV)				Y	Y	Y	Y	Y	
		100: No function assigned (NONE)				Y	Y	Y	Y	Y	
		Setting the value in parentheses () shown above assigns a negative logic input to a terminal.									

F codes

E codes

C codes

P codes

H codes

A codes

b codes

r codes

J codes

d codes

U codes

y codes

C codes: Control Functions of Frequency

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
C01	Jump Frequency 1	0.0 to 500.0 Hz	Y	Y	0.0	Y	Y	Y	Y	N	5-92
C02	2		Y	Y	0.0	Y	Y	Y	Y	N	
C03	3		Y	Y	0.0	Y	Y	Y	Y	N	
C04	(Hysteresis width)	0.0 to 30.0 Hz	Y	Y	3.0	Y	Y	Y	Y	N	
C05	Multi-frequency 1	0.00 to 500.00 Hz	Y	Y	0.00	Y	Y	Y	Y	N	
C06	2		Y	Y	0.00	Y	Y	Y	Y	N	
C07	3		Y	Y	0.00	Y	Y	Y	Y	N	
C08	4		Y	Y	0.00	Y	Y	Y	Y	N	
C09	5		Y	Y	0.00	Y	Y	Y	Y	N	
C10	6		Y	Y	0.00	Y	Y	Y	Y	N	
C11	7		Y	Y	0.00	Y	Y	Y	Y	N	
C12	8		Y	Y	0.00	Y	Y	Y	Y	N	
C13	9		Y	Y	0.00	Y	Y	Y	Y	N	
C14	10		Y	Y	0.00	Y	Y	Y	Y	N	
C15	11		Y	Y	0.00	Y	Y	Y	Y	N	
C16	12		Y	Y	0.00	Y	Y	Y	Y	N	
C17	13		Y	Y	0.00	Y	Y	Y	Y	N	
C18	14		Y	Y	0.00	Y	Y	Y	Y	N	
C19	15		Y	Y	0.00	Y	Y	Y	Y	N	
C20	Jogging Frequency	0.00 to 500.00 Hz	Y	Y	0.00	Y	Y	Y	Y	N	5-93
C30	Frequency Command 2	0: Enable ☺ / ☹ keys on the keypad 1: Voltage input to terminal [12] (-10 to +10 VDC) 2: Current input to terminal [C1] (4 to 20 mA DC) 3: Sum of voltage and current inputs to terminals [12] and [C1] 5: Voltage input to terminal [V2] (0 to 10 VDC) 7: Terminal command UP/DOWN control 8: Enable ☺ / ☹ keys on the keypad (balanceless-bumpless switching available) 11: Digital input interface card (option) 12: Pulse train input	N	Y	2	Y	Y	Y	Y	N	5-29 5-94
C31	Analog Input Adjustment for [12] (Offset)	-5.0% to 5.0%	Y*	Y	0.0	Y	Y	Y	Y	Y	5-94
C32	(Gain)	0.00% to 200.00%	Y*	Y	100.00	Y	Y	Y	Y	Y	
C33	(Filter time constant)	0.00 to 5.00 s	Y	Y	0.05	Y	Y	Y	Y	Y	
C34	(Gain base point)	0.00% to 100.00%	Y*	Y	100.00	Y	Y	Y	Y	Y	
C35	(Polarity)	0: Bipolar 1: Unipolar	N	Y	1	Y	Y	Y	Y	Y	
C36	Analog Input Adjustment for [C1] (Offset)	-5.0% to 5.0%	Y*	Y	0.0	Y	Y	Y	Y	Y	
C37	(Gain)	0.00% to 200.00%	Y*	Y	100.00	Y	Y	Y	Y	Y	
C38	(Filter time constant)	0.00 to 5.00s	Y	Y	0.05	Y	Y	Y	Y	Y	
C39	(Gain base point)	0.00% to 100.00%	Y*	Y	100.00	Y	Y	Y	Y	Y	
C41	Analog Input Adjustment for [V2] (Offset)	-5.0% to 5.0%	Y*	Y	0.0	Y	Y	Y	Y	Y	
C42	(Gain)	0.00% to 200.00%	Y*	Y	100.00	Y	Y	Y	Y	Y	
C43	(Filter time constant)	0.00 to 5.00 s	Y	Y	0.05	Y	Y	Y	Y	Y	
C44	(Gain base point)	0.00% to 100.00%	Y*	Y	100.00	Y	Y	Y	Y	Y	
C45	(Polarity)	0: Bipolar 1: Unipolar	N	Y	1	Y	Y	Y	Y	Y	
C50	Bias (Frequency command 1) (Bias base point)	0.00% to 100.00%	Y*	Y	0.00	Y	Y	Y	Y	Y	
C51	Bias (PID command 1) (Bias value)	-100.00% to 100.00%	Y*	Y	0.00	Y	Y	Y	Y	Y	5-95
C52	(Bias base point)	0.00% to 100.00%	Y*	Y	0.00	Y	Y	Y	Y	Y	
C53	Selection of Normal/Inverse Operation (Frequency command 1)	0: Normal operation 1: Inverse operation	Y	Y	0	Y	Y	Y	Y	Y	5-67 5-95

P codes: Motor 1 Parameters

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
P01	Motor 1 (No. of poles)	2 to 22 poles	N	Y1 Y2	4	Y	Y	Y	Y	Y	5-95
P02	(Rated capacity)	0.01 to 1000 kW (when P99 = 0, 2, 3 or 4) 0.01 to 1000 HP (when P99 = 1)	N	Y1 Y2	*7	Y	Y	Y	Y	Y	5-96
P03	(Rated current)	0.00 to 2000 A	N	Y1 Y2	*7	Y	Y	Y	Y	Y	
P04	(Auto-tuning)	0: Disable 1: Tune while the motor stops. (%R1, %X and rated slip frequency) 2: Tune while the motor is rotating under V/f control (%R1, %X, rated slip frequency, no-load current, magnetic saturation factors 1 to 5, and magnetic saturation extension factors "a" to "c") 3: Tune while the motor is rotating under vector control (%R1, %X, rated slip frequency, no-load current, magnetic saturation factors 1 to 5, and magnetic saturation extension factors "a" to "c." Available when the vector control is enabled.)	N	N	0	Y	Y	Y	Y	Y	
P06	(No-load current)	0.00 to 2000 A	N	Y1 Y2	*7	Y	Y	Y	Y	Y	5-97
P07	(%R1)	0.00% to 50.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
P08	(%X)	0.00% to 50.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
P09	(Slip compensation gain for driving)	0.0% to 200.0%	Y*	Y	100.0	Y	Y	Y	Y	N	
P10	(Slip compensation response time)	0.01 to 10.00 s	Y	Y1 Y2	0.12	Y	Y	N	N	N	
P11	(Slip compensation gain for braking)	0.0% to 200.0%	Y*	Y	100.0	Y	Y	Y	Y	N	
P12	(Rated slip frequency)	0.00 to 15.00 Hz	N	Y1 Y2	*7	Y	Y	Y	Y	N	5-98
P13	(Iron loss factor 1)	0.00% to 20.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
P14	(Iron loss factor 2)	0.00% to 20.00%	Y	Y1 Y2	0.00	Y	Y	Y	Y	Y	
P15	(Iron loss factor 3)	0.00% to 20.00%	Y	Y1 Y2	0.00	Y	Y	Y	Y	Y	
P16	(Magnetic saturation factor 1)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
P17	(Magnetic saturation factor 2)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
P18	(Magnetic saturation factor 3)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
P19	(Magnetic saturation factor 4)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
P20	(Magnetic saturation factor 5)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
P21	(Magnetic saturation extension factor "a")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
P22	(Magnetic saturation extension factor "b")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
P23	(Magnetic saturation extension factor "c")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
P53	(%X correction factor 1)	0% to 300%	Y	Y1 Y2	100	Y	Y	Y	Y	Y	
P54	(%X correction factor 2)	0% to 300%	Y	Y1 Y2	100	Y	Y	Y	Y	Y	
P55	(Torque current under vector control)	0.00 to 2000 A	N	Y1 Y2	*7	N	N	Y	Y	Y	
P56	(Induced voltage factor under vector control)	50% to 100%	N	Y1 Y2	85	N	N	Y	Y	Y	
P57	Reserved *9	0.000 to 20.000 s	Y	Y1 Y2	*7	-	-	-	-	Y	—
P99	Motor 1 Selection	0: Motor characteristics 0 (Fuji standard motors, 8-series) 1: Motor characteristics 1 (HP rating motors) 2: Motor characteristics 2 (Fuji motors exclusively designed for vector control) 3: Motor characteristics 3 (Fuji standard motors, 6-series) 4: Other motors	N	Y1 Y2	0	Y	Y	Y	Y	Y	5-98

H codes: High Performance Functions

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
H03	Data Initialization	0: Disable initialization 1: Initialize all function code data to the factory defaults 2: Initialize motor 1 parameters 3: Initialize motor 2 parameters 4: Initialize motor 3 parameters 5: Initialize motor 4 parameters	N	N	0	Y	Y	Y	Y	Y	5-99
H04	Auto-reset (Times)	0: Disable; 1 to 10	Y	Y	0	Y	Y	Y	Y	Y	
H05	(Reset interval)	0.5 to 20.0 s	Y	Y	5.0	Y	Y	Y	Y	Y	
H06	Cooling Fan ON/OFF Control	0: Disable (Always in operation) 1: Enable (ON/OFF controllable)	Y	Y	0	Y	Y	Y	Y	Y	5-100
H07	Acceleration/Deceleration Pattern	0: Linear 1: S-curve (Weak) 2: S-curve (Arbitrary, according to H57 to H60 data) 3: Curvilinear	Y	Y	0	Y	Y	Y	Y	N	5-38 5-101
H08	Rotational Direction Limitation	0: Disable 1: Enable (Reverse rotation inhibited) 2: Enable (Forward rotation inhibited)	N	Y	0	Y	Y	Y	Y	N	5-101

The shaded function codes () are applicable to the quick setup.

*7 The motor parameters are automatically set, depending upon the inverter's capacity and shipping destination. See Table C.

*9 These function codes are reserved for particular manufacturers. Unless otherwise specified, do not access these function codes.

F codes
E codes
C codes
P codes
H codes
A codes
b codes
r codes
J codes
d codes
U codes
y codes

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
H09	Starting Mode (Auto search)	0: Disable 1: Enable (At restart after momentary power failure) 2: Enable (At restart after momentary power failure and at normal start)	N	Y	0	Y	Y	N	N	N	5-101
H11	Deceleration Mode	0: Normal deceleration 1: Coast-to-stop	Y	Y	0	Y	Y	Y	Y	N	5-102
H12	Instantaneous Overcurrent Limiting (Mode selection)	0: Disable 1: Enable	Y	Y	1	Y	Y	N	N	N	5-64 5-102
H13	Restart Mode after Momentary Power Failure (Restart time)	0.1 to 10.0 s	Y	Y1 Y2	*3	Y	Y	Y	Y	N	5-43 5-102
H14	(Frequency fall rate)	0.00: Deceleration time selected by F08, 0.01 to 100.00 Hz/s, 999: Follow the current limit command	Y	Y	999	Y	Y	Y	N	N	
H15	(Continuous running level)	200 to 300 V for 200 V class series 400 to 600 V for 400 V class series	Y	Y2	235 470	Y	Y	Y	Y	N	
H16	(Allowable momentary power failure time)	0.0 to 30.0 s 999: Automatically determined by inverter	Y	Y	999	Y	Y	Y	Y	N	
H18	Torque Limiter (Mode selection)	0: Disable (Speed control) 2: Enable (Torque current command) 3: Enable (Torque command)	N	Y	0	N	N	Y	Y	Y	5-103
H26	Thermistor (for motor) (Mode selection)	0: Disable 1: PTC (The inverter immediately trips with \overline{THM} displayed.) 2: PTC (The inverter issues output signal THM and continues to run.) 3: NTC (When connected)	Y	Y	0	Y	Y	Y	Y	Y	5-104
H27	(Level)	0.00 to 5.00 V	Y	Y	0.35	Y	Y	Y	Y	Y	
H28	Drop Control	-60.0 to 0.0 Hz	Y	Y	0.0	Y	Y	Y	Y	N	5-105
H30	Communications Link Function (Mode selection)	Frequency command Run command 0: F01/C30 F02 1: RS-485 (Port 1) F02 2: F01/C30 RS-485 (Port 1) 3: RS-485 (Port 1) RS-485 (Port 1) 4: RS-485 (Port 2) F02 5: RS-485 (Port 2) RS-485 (Port 1) 6: F01/C30 RS-485 (Port 2) 7: RS-485 (Port 1) RS-485 (Port 2) 8: RS-485 (Port 2) RS-485 (Port 2)	Y	Y	0	Y	Y	Y	Y	Y	
H42	Capacitance of DC Link Bus Capacitor	Indication for replacement of DC link bus capacitor 0000 to FFFF (hex.)	Y	N	-	Y	Y	Y	Y	Y	5-107
H43	Cumulative Run Time of Cooling Fan	Indication for replacement of cooling fan (in units of 10 hours)	Y	N	-	Y	Y	Y	Y	Y	
H44	Startup Counter for Motor 1	Indication of cumulative startup count 0000 to FFFF (hex.)	Y	N	-	Y	Y	Y	Y	Y	5-108
H45	Mock Alarm	0: Disable 1: Enable (Once a mock alarm occurs, the data automatically returns to 0.)	Y	N	0	Y	Y	Y	Y	Y	5-109
H46	Starting Mode (Auto search delay time 2)	0.1 to 10.0 s	Y	Y1 Y2	*7	Y	Y	Y	N	Y	5-101 5-109
H47	Initial Capacitance of DC Link Bus Capacitor	Indication for replacement of DC link bus capacitor 0000 to FFFF (hex.)	Y	N	-	Y	Y	Y	Y	Y	5-107 5-109
H48	Cumulative Run Time of Capacitors on Printed Circuit Boards	Indication for replacement of capacitors (The cumulative run time can be modified or reset in units of 10 hours.)	Y	N	-	Y	Y	Y	Y	Y	
H49	Starting Mode (Auto search delay time 1)	0.0 to 10.0 s	Y	Y	0.0	Y	Y	Y	Y	Y	5-101 5-109
H50	Non-linear V/f Pattern 1 (Frequency)	0.0: Cancel, 0.1 to 500.0 Hz	N	Y	*8	Y	Y	N	N	N	5-36
H51	(Voltage)	0 to 240: Output an AVR-controlled voltage (for 200 V class series) 0 to 500: Output an AVR-controlled voltage (for 400 V class series)	N	Y2	*8	Y	Y	N	N	N	5-109
H52	Non-linear V/f Pattern 2 (Frequency)	0.0: Cancel, 0.1 to 500.0 Hz	N	Y	0.0	Y	Y	N	N	N	
H53	(Voltage)	0 to 240: Output an AVR-controlled voltage (for 200 V class series) 0 to 500: Output an AVR-controlled voltage (for 400 V class series)	N	Y2	0	Y	Y	N	N	N	
H54	Acceleration Time (Jogging)	0.00 to 6000 s	Y	Y	*2	Y	Y	Y	Y	N	5-38
H55	Deceleration Time (Jogging)	0.00 to 6000 s	Y	Y	*2	Y	Y	Y	Y	N	5-109
H56	Deceleration Time for Forced Stop	0.00 to 6000 s	Y	Y	*2	Y	Y	Y	Y	N	
H57	1st S-curve acceleration range (Leading edge)	0% to 100%	Y	Y	10	Y	Y	Y	Y	N	
H58	2nd S-curve acceleration range (Trailing edge)	0% to 100%	Y	Y	10	Y	Y	Y	Y	N	
H59	1st S-curve deceleration range (Leading edge)	0% to 100%	Y	Y	10	Y	Y	Y	Y	N	
H60	2nd S-curve deceleration range (Trailing edge)	0% to 100%	Y	Y	10	Y	Y	Y	Y	N	

*2 6.00 s for inverters with a capacity of 22 kW or below; 20.00 s for those with 30 kW or above

*3 The factory default differs depending upon the inverter's capacity. See Table B.

*7 The motor parameters are automatically set, depending upon the inverter's capacity and shipping destination. See Table C.

*8 The factory default differs depending upon the inverter's capacity. See the table under "■ Non-linear V/f Patterns 1, 2 and 3 for Voltage" in the description of F04.

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
H61	UP/DOWN Control (Initial frequency setting)	0: 0.00 Hz 1: Last UP/DOWN command value on releasing the run command	N	Y	1	Y	Y	Y	Y	N	5-29 5-109
H63	Low Limiter (Mode selection)	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	Y	Y	Y	Y	N	5-49 5-109
H64	(Lower limiting frequency)	0.0: Depends on F16 (Frequency limiter, Low) 0.1 to 60.0 Hz	Y	Y	1.6	Y	Y	N	N	N	5-109
H65	Non-linear V/f Pattern 3 (Frequency)	0.0: Cancel, 0.1 to 500.0 Hz	N	Y	0.0	Y	Y	N	N	N	5-36
H66	(Voltage)	0 to 240: Output an AVR-controlled voltage (for 200 V class series) 0 to 500: Output an AVR-controlled voltage (for 400 V class series)	N	Y2	0	Y	Y	N	N	N	5-109
H67	Auto Energy Saving Operation (Mode selection)	0: Enable during running at constant speed 1: Enable in all modes	Y	Y	0	Y	Y	N	Y	N	5-55 5-109
H68	Slip Compensation 1 (Operating conditions)	0: Enable during ACC/DEC and at base frequency or above 1: Disable during ACC/DEC and enable at base frequency or above 2: Enable during ACC/DEC and disable at base frequency or above 3: Disable during ACC/DEC and at base frequency or above	N	Y	0	Y	Y	N	N	N	5-62 5-109
H69	Automatic Deceleration (Mode selection)	0: Disable 2: Torque limit control with Force-to-stop if actual deceleration time exceeds three times the specified one 3: DC link bus voltage control with Force-to-stop if actual deceleration time exceeds three times the specified one 4: Torque limit control with Force-to-stop disabled 5: DC link bus voltage control with Force-to-stop disabled	Y	Y	0	Y	Y	Y	Y	N	5-109
H70	Overload Prevention Control	0.00: Follow the deceleration time selected 0.01 to 100.0 Hz/s 999: Cancel	Y	Y	999	Y	Y	Y	Y	N	5-110
H71	Deceleration Characteristics	0: Disable 1: Enable	Y	Y	0	Y	Y	N	N	N	
H72	Main Power Down Detection (Mode selection)	0: Disable 1: Enable	Y	Y	1	Y	Y	Y	Y	Y	5-111
H73	Torque Limiter (Operating conditions)	0: Enable during ACC/DEC and running at constant speed 1: Disable during ACC/DEC and enable during running at constant speed 2: Enable during ACC/DEC and disable during running at constant speed	N	Y	0	Y	Y	Y	Y	Y	5-57 5-111
H74	(Control target)	0: Motor-generating torque limit 1: Torque current limit 2: Output power limit	N	Y	1	N	N	Y	Y	Y	
H75	(Target quadrants)	0: Drive/brake 1: Same for all four quadrants 2: Upper/lower limits	N	Y	0	N	N	Y	Y	Y	
H76	(Frequency increment limit for braking)	0.0 to 500.0 Hz	Y	Y	5.0	Y	Y	N	N	N	5-109 5-111
H77	Service Life of DC Link Bus Capacitor (Remaining time)	0 to 8760 (in units of 10 hours)	Y	N	-	Y	Y	Y	Y	Y	5-111
H78	Maintenance Interval (M1)	0: Disable; 1 to 9999 (in units of 10 hours)	Y	N	8760	Y	Y	Y	Y	Y	5-108
H79	Preset Startup Count for Maintenance (M1)	0000: Disable; 0001 to FFFF (hex.)	Y	N	0	Y	Y	Y	Y	Y	5-111
H80	Output Current Fluctuation Damping Gain for Motor 1	0.00 to 0.40	Y	Y	0.20 *10	Y	Y	N	N	Y	5-111
H81	Light Alarm Selection 1	0000 to FFFF (hex.)	Y	Y	0	Y	Y	Y	Y	Y	5-112
H82	Light Alarm Selection 2	0000 to FFFF (hex.)	Y	Y	0	Y	Y	Y	Y	Y	
H84	Pre-excitation (Initial level)	100% to 400%	Y	Y	100	N	N	Y	Y	Y	5-114
H85	(Time)	0.00: Disable; 0.01 to 30.00 s	Y	Y	0.00	N	N	Y	Y	Y	
H86	Reserved *9	0 to 2	Y	Y1Y2	0 *11	-	-	-	-	-	
H87	Reserved *9	25.0 to 500.0 Hz	Y	Y	25.0	-	-	-	-	-	
H88	Reserved *9	0 to 3; 999	Y	N	0	-	-	-	-	-	
H89	Reserved *9	0, 1	Y	Y	0	-	-	-	-	-	
H90	Reserved *9	0, 1	Y	Y	0	-	-	-	-	-	
H91	PID Feedback Wire Break Detection	0.0: Disable alarm detection 0.1 to 60.0 s	Y	Y	0.0	Y	Y	Y	Y	N	5-115
H92	Continuity of Running (P)	0.000 to 10.000 times; 999	Y	Y1Y2	999	Y	Y	Y	Y	N	5-43
H93	(I)	0.010 to 10.000 s; 999	Y	Y1Y2	999	Y	Y	Y	Y	N	5-115
H94	Cumulative Motor Run Time 1	0 to 9999 (The cumulative run time can be modified or reset in units of 10 hours.)	N	N	-	Y	Y	Y	Y	Y	5-108 5-115
H95	DC Braking (Braking response mode)	0: Slow 1: Quick	Y	Y	1	Y	Y	N	N	N	5-49 5-115
H96	STOP Key Priority/ Start Check Function	Data STOP key priority Start check function 0: Disable Disable 1: Enable Disable 2: Disable Enable 3: Enable Enable	Y	Y	0	Y	Y	Y	Y	Y	5-115

*9 These function codes are reserved for particular manufacturers. Unless otherwise specified, do not access these function codes.

*10 0.10 for 200 V class series of inverters with a capacity of 37 kW or above.

*11 2 for 200 V class series of inverters with a capacity of 37 kW or above.

F codes
E codes
C codes
P codes
H codes
A codes
b codes
r codes
J codes
d codes
U codes
y codes

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
H97	Clear Alarm Data	0: Disable 1: Enable (Setting "1" clears alarm data and then returns to "0.")	Y	N	0	Y	Y	Y	Y	Y	5-115
H98	Protection/Maintenance Function (Mode selection)	0 to 255: Display data in decimal format Bit 0: Lower the carrier frequency automatically (0: Disabled; 1: Enabled) Bit 1: Detect input phase loss (0: Disabled; 1: Enabled) Bit 2: Detect output phase loss (0: Disabled; 1: Enabled) Bit 3: Select life judgment threshold of DC link bus capacitor (0: Factory default level; 1: User setup level) Bit 4: Judge the life of DC link bus capacitor (0: Disabled; 1: Enabled) Bit 5: Detect DC fan lock (0: Enabled; 1: Disabled) Bit 6: Detect braking transistor error (for 22 kW or below) (0: Disabled; 1: Enabled) Bit 7: Switch IP20/IP40 enclosure (0: IP20; 1: IP40)	Y	Y	83	Y	Y	Y	Y	Y	

A codes: Motor 2 Parameters

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
A01	Maximum Frequency 2	25.0 to 500.0 Hz	N	Y	*1	Y	Y	Y	Y	Y	—
A02	Base Frequency 2	25.0 to 500.0 Hz	N	Y	50.0	Y	Y	Y	Y	Y	
A03	Rated Voltage at Base Frequency 2	0: Output a voltage in proportion to input voltage 80 to 240: Output an AVR-controlled voltage (for 200 V class series) 160 to 500: Output an AVR-controlled voltage (for 400 V class series)	N	Y2	*1	Y	Y	Y	Y	Y	
A04	Maximum Output Voltage 2	80 to 240: Output an AVR-controlled voltage (for 200 V class series) 160 to 500: Output an AVR-controlled voltage (for 400 V class series)	N	Y2	*1	Y	Y	N	N	Y	
A05	Torque Boost 2	0.0% to 20.0% (percentage with respect to "A03: Rated Voltage at Base Frequency 2")	Y	Y	*3	Y	Y	N	N	N	
A06	Electronic Thermal Overload Protection for Motor 2 (Select motor characteristics)	1: For a general-purpose motor with shaft-driven cooling fan 2: For an inverter-driven motor, non-ventilated motor, or motor with separately powered cooling fan	Y	Y	1	Y	Y	Y	Y	Y	
A07	(Overload detection level)	0.00: Disable 1% to 135% of the rated current (allowable continuous drive current) of the motor	Y	Y1 Y2	*4	Y	Y	Y	Y	Y	
A08	(Thermal time constant)	0.5 to 75.0 min	Y	Y	*5	Y	Y	Y	Y	Y	
A09	DC Braking 2 (Braking starting frequency)	0.0 to 60.0 Hz	Y	Y	0.0	Y	Y	Y	Y	N	
A10	(Braking level)	0% to 100% (HD mode), 0% to 80% (MD/LD mode)	Y	Y	0	Y	Y	Y	Y	N	
A11	(Braking time)	0.00: Disable; 0.01 to 30.00 s	Y	Y	0.00	Y	Y	Y	Y	N	
A12	Starting Frequency 2	0.0 to 60.0 Hz	Y	Y	0.5	Y	Y	Y	Y	N	
A13	Load Selection/ Auto Torque Boost Auto Energy Saving Operation 2	0: Variable torque load 1: Constant torque load 2: Auto-torque boost 3: Auto-energy saving operation (Variable torque load during ACC/DEC) 4: Auto-energy saving operation (Constant torque load during ACC/DEC) 5: Auto-energy saving operation (Auto-torque boost during ACC/DEC)	N	Y	1	Y	Y	N	Y	N	
A14	Drive Control Selection 2	0: V/f control with slip compensation inactive 1: Dynamic torque vector control 2: V/f control with slip compensation active 3: V/f control with speed sensor 4: Dynamic torque vector control with speed sensor 5: Vector control without speed sensor 6: Vector control with speed sensor	N	Y	0	Y	Y	Y	Y	Y	
A15	Motor 2 (No. of poles)	2 to 22 poles	N	Y1 Y2	4	Y	Y	Y	Y	Y	
A16	(Rated capacity)	0.01 to 1000 kW (when A39 = 0, 2, 3 or 4) 0.01 to 1000 HP (when A39 = 1)	N	Y1 Y2	*7	Y	Y	Y	Y	Y	
A17	(Rated current)	0.00 to 2000 A	N	Y1 Y2	*7	Y	Y	Y	Y	Y	

*1 The factory default differs depending upon the shipping destination. See Table A.

*3 The factory default differs depending upon the inverter's capacity. See Table B.

*4 The motor rated current is automatically set. See Table C (function code P03).

*5 5.0 min for inverters with a capacity of 22 kW or below; 10.0 min for those with 30 kW or above

*7 The motor parameters are automatically set, depending upon the inverter's capacity and shipping destination. See Table C.

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
A18	Motor 2 (Auto-tuning)	0: Disable 1: Tune while the motor stops. (%R1, %X and rated slip frequency) 2: Tune while the motor is rotating under V/f control (%R1, %X, rated slip frequency, no-load current, magnetic saturation factors 1 to 5, and magnetic saturation extension factors "a" to "c") 3: Tune while the motor is rotating under vector control (%R1, %X, rated slip frequency, no-load current, magnetic saturation factors 1 to 5, and magnetic saturation extension factors "a" to "c." Available when the vector control is enabled.	N	N	0	Y	Y	Y	Y	Y	—
A20	(No-load current)	0.00 to 2000 A	N	Y1 Y2	*7	Y	Y	Y	Y	Y	
A21	(%R1)	0.00% to 50.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
A22	(%X)	0.00% to 50.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
A23	(Slip compensation gain for driving)	0.0% to 200.0%	Y*	Y	100.0	Y	Y	Y	Y	N	
A24	(Slip compensation response time)	0.01 to 10.00s	Y	Y1 Y2	0.12	Y	Y	N	N	N	
A25	(Slip compensation gain for braking)	0.0% to 200.0%	Y*	Y	100.0	Y	Y	Y	Y	N	
A26	(Rated slip frequency)	0.00 to 15.00 Hz	N	Y1 Y2	*7	Y	Y	Y	Y	N	
A27	(Iron loss factor 1)	0.00% to 20.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
A28	(Iron loss factor 2)	0.00% to 20.00%	Y	Y1 Y2	0.00	Y	Y	Y	Y	Y	
A29	(Iron loss factor 3)	0.00% to 20.00%	Y	Y1 Y2	0.00	Y	Y	Y	Y	Y	
A30	(Magnetic saturation factor 1)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
A31	(Magnetic saturation factor 2)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
A32	(Magnetic saturation factor 3)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
A33	(Magnetic saturation factor 4)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
A34	(Magnetic saturation factor 5)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
A35	(Magnetic saturation extension factor "a")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
A36	(Magnetic saturation extension factor "b")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
A37	(Magnetic saturation extension factor "c")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
A39	Motor 2 Selection	0: Motor characteristics 0 (Fuji standard motors, 8-series) 1: Motor characteristics 1 (HP rating motors) 2: Motor characteristics 2 (Fuji motors exclusively designed for vector control) 3: Motor characteristics 3 (Fuji standard motors, 6-series) 4: Other motors	N	Y1 Y2	0	Y	Y	Y	Y	Y	
A40	Slip Compensation 2 (Operating conditions)	0: Enable during ACC/DEC and at base frequency or above 1: Disable during ACC/DEC and enable at base frequency or above 2: Enable during ACC/DEC and disable at base frequency or above 3: Disable during ACC/DEC and at base frequency or above	N	Y	0	Y	Y	N	N	N	
A41	Output Current Fluctuation Damping Gain for Motor 2	0.00 to 0.40	Y	Y	0.20	Y	Y	N	N	N	
A42	Motor/Parameter Switching 2 (Mode selection)	0: Motor (Switch to the 2nd motor) 1: Parameter (Switch to particular A codes)	N	Y	0	Y	Y	Y	Y	Y	5-117
A43	Speed Control 2 (Speed command filter)	0.000 to 5.000 s	Y	Y	0.020	N	Y	Y	Y	N	—
A44	(Speed detection filter)	0.000 to 0.100 s	Y*	Y	0.005	N	Y	Y	Y	N	
A45	P (Gain)	0.1 to 200.0 times	Y*	Y	10.0	N	Y	Y	Y	N	
A46	I (Integral time)	0.001 to 9.999 s	Y*	Y	0.100	N	Y	Y	Y	N	
A48	(Output filter)	0.000 to 0.100 s	Y	Y	0.002	N	Y	Y	Y	N	
A49	(Notch filter resonance frequency)	1 to 200 Hz	Y	Y	200	N	N	N	Y	N	
A50	(Notch filter attenuation level)	0 to 20 dB	Y	Y	0	N	N	N	Y	N	
A51	Cumulative Motor Run Time 2	0 to 9999 (The cumulative run time can be modified or reset in units of 10 hours.)	N	N	-	Y	Y	Y	Y	Y	
A52	Startup Counter for Motor 2	Indication of cumulative startup count 0000 to FFFF (hex.)	Y	N	-	Y	Y	Y	Y	Y	
A53	Motor 2 (%X correction factor 1)	0% to 300%	Y	Y1 Y2	100	Y	Y	Y	Y	Y	
A54	(%X correction factor 2)	0% to 300%	Y	Y1 Y2	100	Y	Y	Y	Y	Y	
A55	(Torque current under vector control)	0.00 to 2000 A	N	Y1 Y2	*7	N	N	Y	Y	Y	
A56	(Induced voltage factor under vector control)	50 to 100	N	Y1 Y2	85	N	N	Y	Y	Y	
A57	Reserved *9	0.000 to 20.000 s	Y	Y1 Y2	*7	-	-	-	-	-	

*7 The motor parameters are automatically set, depending upon the inverter's capacity and shipping destination. See Table C.

*9 These function codes are reserved for particular manufacturers. Unless otherwise specified, do not access these function codes.

F codes
E codes
C codes
P codes
H codes
A codes
b codes
r codes
J codes
d codes
U codes
y codes

b codes: Motor 3 Parameters

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
b01	Maximum Frequency 3	25.0 to 500.0 Hz	N	Y	*1	Y	Y	Y	Y	Y	—
b02	Base Frequency 3	25.0 to 500.0 Hz	N	Y	50.0	Y	Y	Y	Y	Y	
b03	Rated Voltage at Base Frequency 3	0: Output a voltage in proportion to input voltage 80 to 240: Output an AVR-controlled voltage (for 200 V class series) 160 to 500: Output an AVR-controlled voltage (for 400 V class series)	N	Y2	*1	Y	Y	Y	Y	Y	
b04	Maximum Output Voltage 3	80 to 240: Output an AVR-controlled voltage (for 200 V class series) 160 to 500: Output an AVR-controlled voltage (for 400 V class series)	N	Y2	*1	Y	Y	N	N	Y	
b05	Torque Boost 3	0.0% to 20.0% (percentage with respect to "b03: Rated Voltage at Base Frequency 3")	Y	Y	*3	Y	Y	N	N	N	
b06	Electric Thermal Overload Protection for Motor 3 (Select motor characteristics)	1: For a general-purpose motor with shaft-driven cooling fan 2: For an inverter-driven motor, non-ventilated motor, or motor with separately powered cooling fan	Y	Y	1	Y	Y	Y	Y	Y	
b07	(Overload detection level)	0.00: Disable 1% to 135% of the rated current (allowable continuous drive current) of the motor	Y	Y1 Y2	*4	Y	Y	Y	Y	Y	
b08	(Thermal time constant)	0.5 to 75.0 min	Y	Y	*5	Y	Y	Y	Y	Y	
b09	DC Braking 3 (Braking starting frequency)	0.0 to 60.0 Hz	Y	Y	0.0	Y	Y	Y	Y	N	
b10	(Braking level)	0% to 100% (HD mode), 0% to 80% (MD/LD mode)	Y	Y	0	Y	Y	Y	Y	N	
b11	(Braking time)	0.00: Disable; 0.01 to 30.00 s	Y	Y	0.00	Y	Y	Y	Y	N	
b12	Starting Frequency 3	0.0 to 60.0 Hz	Y	Y	0.5	Y	Y	Y	Y	N	
b13	Load Selection/ Auto Torque Boost/ Auto Energy Saving Operation 3	0: Variable torque load 1: Constant torque load 2: Auto-torque boost 3: Auto-energy saving operation (Variable torque load during ACC/DEC) 4: Auto-energy saving operation (Constant torque load during ACC/DEC) 5: Auto-energy saving operation (Auto-torque boost during ACC/DEC)	N	Y	1	Y	Y	N	Y	N	
b14	Drive Control Selection 3	0: V/f control with slip compensation inactive 1: Dynamic torque vector control 2: V/f control with slip compensation active 3: V/f control with speed sensor 4: Dynamic torque vector control with speed sensor 5: Vector control without speed sensor 6: Vector control with speed sensor	N	Y	0	Y	Y	Y	Y	Y	
b15	Motor 3 (No. of poles)	2 to 22 poles	N	Y1 Y2	4	Y	Y	Y	Y	Y	
b16	(Rated capacity)	0.01 to 1000 kW (when b39 = 0, 2, 3 or 4) 0.01 to 1000 HP (when b39 = 1)	N	Y1 Y2	*7	Y	Y	Y	Y	Y	
b17	(Rated current)	0.00 to 2000 A	N	Y1 Y2	*7	Y	Y	Y	Y	Y	
b18	(Auto-tuning)	0: Disable 1: Tune while the motor stops. (%R1, %X and rated slip frequency) 2: Tune while the motor is rotating under V/f control (%R1, %X, rated slip frequency, no-load current, magnetic saturation factors 1 to 5, and magnetic saturation extension factors "a" to "c") 3: Tune while the motor is rotating under vector control (%R1, %X, rated slip frequency, no-load current, magnetic saturation factors 1 to 5, and magnetic saturation extension factors "a" to "c." Available when the vector control is enabled.)	N	N	0	Y	Y	Y	Y	Y	
b20	(No-load current)	0.00 to 2000 A	N	Y1 Y2	*7	Y	Y	Y	Y	Y	
b21	(%R1)	0.00% to 50.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
b22	(%X)	0.00% to 50.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
b23	(Slip compensation gain for driving)	0.0% to 200.0%	Y*	Y	100.0	Y	Y	Y	Y	N	
b24	(Slip compensation response time)	0.01 to 10.00 s	Y	Y1 Y2	0.12	Y	Y	N	N	N	
b25	(Slip compensation gain for braking)	0.0% to 200.0%	Y*	Y	100.0	Y	Y	Y	Y	N	
b26	(Rated slip frequency)	0.00 to 15.00 Hz	N	Y1 Y2	*7	Y	Y	Y	Y	N	
b27	(Iron loss factor 1)	0.00% to 20.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
b28	(Iron loss factor 2)	0.00% to 20.00%	Y	Y1 Y2	0.00	Y	Y	Y	Y	Y	
b29	(Iron loss factor 3)	0.00% to 20.00%	Y	Y1 Y2	0.00	Y	Y	Y	Y	Y	
b30	(Magnetic saturation factor 1)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
b31	(Magnetic saturation factor 2)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
b32	(Magnetic saturation factor 3)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
b33	(Magnetic saturation factor 4)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
b34	(Magnetic saturation factor 5)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	

*1 The factory default differs depending upon the shipping destination. See Table A.

*3 The factory default differs depending upon the inverter's capacity. See Table B.

*4 The motor rated current is automatically set. See Table C (function code P03).

*5 5.0 min for inverters with a capacity of 22 kW or below; 10.0 min for those with 30 kW or above

*7 The motor parameters are automatically set, depending upon the inverter's capacity and shipping destination. See Table C.

	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
b35	Motor 3 (Magnetic saturation extension factor "a")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	—
b36	(Magnetic saturation extension factor "b")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
b37	(Magnetic saturation extension factor "c")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
b39	Motor 3 Selection	0: Motor characteristics 0 (Fuji standard motors, 8-series) 1: Motor characteristics 1 (HP rating motors) 2: Motor characteristics 2 (Fuji motors exclusively designed for vector control) 3: Motor characteristics 3 (Fuji standard motors, 6-series) 4: Other motors	N	Y1 Y2	0	Y	Y	Y	Y	Y	
b40	Slip Compensation 3 (Operating conditions)	0: Enable during ACC/DEC and at base frequency or above 1: Disable during ACC/DEC and enable at base frequency or above 2: Enable during ACC/DEC and disable at base frequency or above 3: Disable during ACC/DEC and at base frequency or above	N	Y	0	Y	Y	N	N	N	
b41	Output Current Fluctuation Damping Gain for Motor 3	0.00 to 0.40	Y	Y	0.20	Y	Y	N	N	N	
b42	Motor/Parameter Switching 3 (Mode selection)	0: Motor (Switch to the 3rd motor) 1: Parameter (Switch to particular b codes)	N	Y	0	Y	Y	Y	Y	Y	5-117
b43	Speed Control 3 (Speed command filter)	0.000 to 5.000 s	Y	Y	0.020	N	Y	Y	Y	N	—
b44	(Speed detection filter)	0.000 to 0.100 s	Y*	Y	0.005	N	Y	Y	Y	N	
b45	P (Gain)	0.1 to 200.0 times	Y*	Y	10.0	N	Y	Y	Y	N	
b46	I (Integral time)	0.001 to 9.999 s	Y*	Y	0.100	N	Y	Y	Y	N	
b48	(Output filter)	0.000 to 0.100 s	Y	Y	0.002	N	Y	Y	Y	N	
b49	(Notch filter resonance frequency)	1 to 200 Hz	Y	Y	200	N	N	N	Y	N	
b50	(Notch filter attenuation level)	0 to 20 dB	Y	Y	0	N	N	N	Y	N	
b51	Cumulative Motor Run Time 3	0 to 9999 (The cumulative run time can be modified or reset in units of 10 hours.)	N	N	-	Y	Y	Y	Y	Y	
b52	Startup Counter for Motor 3	Indication of cumulative startup count 0000 to FFFF (hex.)	Y	N	-	Y	Y	Y	Y	Y	
b53	Motor 3 (%X correction factor 1)	0% to 300%	Y	Y1 Y2	100	Y	Y	Y	Y	Y	
b54	(%X correction factor 2)	0% to 300%	Y	Y1 Y2	100	Y	Y	Y	Y	Y	
b55	(Torque current under vector control)	0.00 to 2000 A	N	Y1 Y2	*7	N	N	Y	Y	Y	
b56	(Induced voltage factor under vector control)	50 to 100	N	Y1 Y2	85	N	N	Y	Y	Y	
b57	Reserved *9	0.000 to 20.000 s	Y	Y1 Y2	*7	-	-	-	-	-	

r codes: Motor 4 Parameters

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
r01	Maximum Frequency 4	25.0 to 500.0 Hz	N	Y	*1	Y	Y	Y	Y	Y	—
r02	Base Frequency 4	25.0 to 500.0 Hz	N	Y	50.0	Y	Y	Y	Y	Y	
r03	Rated Voltage at Base Frequency 4	0: Output a voltage in proportion to input voltage 80 to 240: Output an AVR-controlled voltage (for 200 V class series) 160 to 500: Output an AVR-controlled voltage (for 400 V class series)	N	Y2	*1	Y	Y	Y	Y	Y	
r04	Maximum Output Voltage 4	80 to 240: Output an AVR-controlled voltage (for 200 V class series) 160 to 500: Output an AVR-controlled voltage (for 400 V class series)	N	Y2	*1	Y	Y	N	N	Y	
r05	Torque Boost 4	0.0% to 20.0% (percentage with respect to "r03: Rated Voltage at Base Frequency 4")	Y	Y	*3	Y	Y	N	N	N	
r06	Electronic Thermal Overload Protection for Motor 4 (Select motor characteristics)	1: For a general-purpose motor with shaft-driven cooling fan 2: For an inverter-driven motor, non-ventilate*d motor, or motor with separately powered cooling fan	Y	Y	1	Y	Y	Y	Y	Y	
r07	(Overload detection level)	0.00: Disable 1% to 135% of the rated current (allowable continuous drive current) of the motor	Y	Y1 Y2	*4	Y	Y	Y	Y	Y	
r08	(Thermal time constant)	0.5 to 75.0 min	Y	Y	*5	Y	Y	Y	Y	Y	

*1 The factory default differs depending upon the shipping destination. See Table A.

*3 The factory default differs depending upon the inverter's capacity. See Table B.

*4 The motor rated current is automatically set. See Table C (function code P03).

*5 5.0 min for inverters with a capacity of 22 kW or below; 10.0 min for those with 30 kW or above

*7 The motor parameters are automatically set, depending upon the inverter's capacity and shipping destination. See Table C.

*9 These function codes are reserved for particular manufacturers. Unless otherwise specified, do not access these function codes.

F codes
E codes
C codes
P codes
H codes
A codes
b codes
r codes
J codes
d codes
U codes
y codes

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
r09	DC Braking 4 (Braking starting frequency)	0.0 to 60.0 Hz	Y	Y	0.0	Y	Y	Y	Y	N	—
r10	(Braking level)	0% to 100% (HD mode), 0% to 80% (MD/LD mode)	Y	Y	0	Y	Y	Y	Y	N	
r11	(Braking time)	0.00: Disable; 0.01 to 30.00 s	Y	Y	0.00	Y	Y	Y	Y	N	
r12	Starting Frequency 4	0.0 to 60.0 Hz	Y	Y	0.5	Y	Y	Y	Y	N	
r13	Load Selection/ Auto Torque Boost/ Auto Energy Saving Operation 4	0: Variable torque load 1: Constant torque load 2: Auto-torque boost 3: Auto-energy saving operation (Variable torque load during ACC/DEC) 4: Auto-energy saving operation (Constant torque load during ACC/DEC) 5: Auto-energy saving operation (Auto-torque boost during ACC/DEC)	N	Y	1	Y	Y	N	Y	N	
r14	Drive Control Selection 4	0: V/f control with slip compensation inactive 1: Dynamic torque vector control 2: V/f control with slip compensation active 3: V/f control with speed sensor 4: Dynamic torque vector control with speed sensor 5: Vector control without speed sensor 6: Vector control with speed sensor	N	Y	0	Y	Y	Y	Y	Y	
r15	Motor 4 (No. of poles)	2 to 22 poles	N	Y1 Y2	4	Y	Y	Y	Y	Y	
r16	(Rated capacity)	0.01 to 1000 kW (when r39 = 0, 2, 3 or 4) 0.01 to 1000 HP (when r39 = 1)	N	Y1 Y2	*7	Y	Y	Y	Y	Y	
r17	(Rated current)	0.00 to 2000 A	N	Y1 Y2	*7	Y	Y	Y	Y	Y	
r18	(Auto-tuning)	0: Disable 1: Tune while the motor stops. (%R1, %X and rated slip frequency) 2: Tune while the motor is rotating under V/f control (%R1, %X, rated slip frequency, no-load current, magnetic saturation factors 1 to 5, and magnetic saturation extension factors "a" to "c") 3: Tune while the motor is rotating under vector control (%R1, %X, rated slip frequency, no-load current, magnetic saturation factors 1 to 5, and magnetic saturation extension factors "a" to "c." Available when the vector control is enabled.)	N	N	0	Y	Y	Y	Y	Y	
r20	(No-load current)	0.00 to 2000 A	N	Y1 Y2	*7	Y	Y	Y	Y	Y	
r21	(%R1)	0.00% to 50.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
r22	(%X)	0.00% to 50.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
r23	(Slip compensation gain for driving)	0.0% to 200.0%	Y*	Y	100.0	Y	Y	Y	Y	N	
r24	(Slip compensation response time)	0.01 to 10.00 s	Y	Y1 Y2	0.12	Y	Y	N	N	N	
r25	(Slip compensation gain for braking)	0.0% to 200.0%	Y*	Y	100.0	Y	Y	Y	Y	N	
r26	(Rated slip frequency)	0.00 to 15.00 Hz	N	Y1 Y2	*7	Y	Y	Y	Y	N	
r27	(Iron loss factor 1)	0.00% to 20.00%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
r28	(Iron loss factor 2)	0.00% to 20.00%	Y	Y1 Y2	0.00	Y	Y	Y	Y	Y	
r29	(Iron loss factor 3)	0.00% to 20.00%	Y	Y1 Y2	0.00	Y	Y	Y	Y	Y	
r30	(Magnetic saturation factor 1)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
r31	(Magnetic saturation factor 2)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
r32	(Magnetic saturation factor 3)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
r33	(Magnetic saturation factor 4)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
r34	(Magnetic saturation factor 5)	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
r35	(Magnetic saturation extension factor "a")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
r36	(Magnetic saturation extension factor "b")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
r37	(Magnetic saturation extension factor "c")	0.0% to 300.0%	Y	Y1 Y2	*7	Y	Y	Y	Y	Y	
r39	Motor 4 Selection	0: Motor characteristics 0 (Fuji standard motors, 8-series) 1: Motor characteristics 1 (HP rating motors) 2: Motor characteristics 2 (Fuji motors exclusively designed for vector control) 3: Motor characteristics 3 (Fuji standard motors, 6-series) 4: Other motors	N	Y1 Y2	0	Y	Y	Y	Y	Y	
r40	Slip Compensation 4 (Operating conditions)	0: Enable during ACC/DEC and at base frequency or above 1: Disable during ACC/DEC and enable at base frequency or above 2: Enable during ACC/DEC and disable at base frequency or above 3: Disable during ACC/DEC and at base frequency or above	N	Y	0	Y	Y	N	N	N	
r41	Output Current Fluctuation Damping Gain for Motor 4	0.00 to 0.40	Y	Y	0.20	Y	Y	N	N	N	
r42	Motor/Parameter Switching 4 (Mode selection)	0: Motor (Switch to the 4th motor) 1: Parameter (Switch to particular r codes)	N	Y	0	Y	Y	Y	Y	Y	5-117

*7 The motor parameters are automatically set, depending upon the inverter's capacity and shipping destination. See Table C.

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
r43	Speed Control 4 (Speed command filter)	0.000 to 5.000 s	Y	Y	0.020	N	Y	Y	Y	N	—
r44	(Speed detection filter)	0.000 to 0.100 s	Y*	Y	0.005	N	Y	Y	Y	N	
r45	P (Gain)	0.1 to 200.0 times	Y*	Y	10.0	N	Y	Y	Y	N	
r46	I (Integral time)	0.001 to 9.999 s	Y*	Y	0.100	N	Y	Y	Y	N	
r48	(Output filter)	0.000 to 0.100 s	Y	Y	0.002	N	Y	Y	Y	N	
r49	(Notch filter resonance frequency)	1 to 200 Hz	Y	Y	200	N	N	N	Y	N	
r50	(Notch filter attenuation level)	0 to 20 dB	Y	Y	0	N	N	N	Y	N	
r51	Cumulative Motor Run Time 4	0 to 9999 (The cumulative run time can be modified or reset in units of 10 hours.)	N	N	-	Y	Y	Y	Y	Y	
r52	Startup Counter for Motor 4	Indication of cumulative startup count 0000 to FFFF (hex.)	Y	N	-	Y	Y	Y	Y	Y	
r53	Motor 4 (%X correction factor 1)	0% to 300%	Y	Y1 Y2	100	Y	Y	Y	Y	Y	
r54	(%X correction factor 2)	0% to 300%	Y	Y1 Y2	100	Y	Y	Y	Y	Y	
r55	(Torque current under vector control)	0.00 to 2000 A	N	Y1 Y2	*7	N	N	Y	Y	Y	
r56	(Induced voltage factor under vector control)	50 to 100	N	Y1 Y2	85	N	N	Y	Y	Y	
r57	Reserved *9	0.000 to 20.000 s	Y	Y1 Y2	*7	-	-	-	-	-	

J codes: Application Functions 1

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
J01	PID Control (Mode selection)	0: Disable 1: Enable (Process control, normal operation) 2: Enable (Process control, inverse operation) 3: Enable (Dancer control)	N	Y	0	Y	Y	Y	Y	N	5-120
J02	(Remote command SV)	0: ⏪ / ⏩ keys on keypad 1: PID command 1 (Analog input terminals [12], [C1], and [V2]) 3: UP/DOWN 4: Command via communications link	N	Y	0	Y	Y	Y	Y	N	5-121
J03	P (Gain)	0.000 to 30.000 times	Y	Y	0.100	Y	Y	Y	Y	N	5-124
J04	I (Integral time)	0.0 to 3600.0 s	Y	Y	0.0	Y	Y	Y	Y	N	
J05	D (Differential time)	0.00 to 600.00 s	Y	Y	0.00	Y	Y	Y	Y	N	
J06	(Feedback filter)	0.0 to 900.0 s	Y	Y	0.5	Y	Y	Y	Y	N	
J08	(Pressurization starting frequency)	0.0 to 500.0 Hz	Y	Y	0.0	Y	Y	Y	Y	N	
J09	(Pressurizing time)	0 to 60 s	Y	Y	0	Y	Y	Y	Y	N	
J10	(Anti reset windup)	0% to 200%	Y	Y	200	Y	Y	Y	Y	N	5-127
J11	(Select alarm output)	0: Absolute-value alarm 1: Absolute-value alarm (with Hold) 2: Absolute-value alarm (with Latch) 3: Absolute-value alarm (with Hold and Latch) 4: Deviation alarm 5: Deviation alarm (with Hold) 6: Deviation alarm (with Latch) 7: Deviation alarm (with Hold and Latch)	Y	Y	0	Y	Y	Y	Y	N	5-126 5-128 5-128
J12	(Upper level alarm (AH))	-100% to 100%	Y	Y	100	Y	Y	Y	Y	N	
J13	(Lower level alarm (AL))	-100% to 100%	Y	Y	0	Y	Y	Y	Y	N	
J15	(Stop frequency for slow flowrate)	0.0: Disable; 1.0 to 500.0 Hz	Y	Y	0.0	Y	Y	Y	Y	N	
J16	(Slow flowrate level stop latency)	0 to 60 s	Y	Y	30	Y	Y	Y	Y	N	
J17	(Starting frequency)	0.0 to 500.0 Hz	Y	Y	0.0	Y	Y	Y	Y	N	
J18	(Upper limit of PID process output)	-150% to 150%; 999: Depends on setting of F15	Y	Y	999	Y	Y	Y	Y	N	
J19	(Lower limit of PID process output)	-150% to 150%; 999: Depends on setting of F16	Y	Y	999	Y	Y	Y	Y	N	
J21	Dew Condensation Prevention (Duty)	1% to 50%	Y	Y	1	Y	Y	Y	Y	Y	
J22	Commercial Power Switching Sequence	0: Keep inverter operation (Stop due to alarm) 1: Automatically switch to commercial-power operation	N	Y	0	Y	Y	N	N	Y	
J56	PID Control (Speed command filter)	0.00 to 5.00 s	Y	Y	0.10	Y	Y	Y	Y	N	5-129
J57	(Dancer reference position)	-100% to 0% to 100%	Y	Y	0	Y	Y	Y	Y	N	
J58	(Detection width of dancer position deviation)	0: Disable switching PID constant 1% to 100% (Manually set value)	Y	Y	0	Y	Y	Y	Y	N	
J59	P (Gain) 2	0.000 to 30.000 times	Y	Y	0.100	Y	Y	Y	Y	N	
J60	I (Integral time) 2	0.0 to 3600.0 s	Y	Y	0.0	Y	Y	Y	Y	N	
J61	D (Differential time) 3	0.00 to 600.00 s	Y	Y	0.00	Y	Y	Y	Y	N	
J62	(PID control block selection)	0 to 3 bit 0: PID output polarity 0: Plus (add), 1: Minus (subtract) 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	Y	Y	Y	Y	N	

*7 The motor parameters are automatically set, depending upon the inverter's capacity and shipping destination. See Table C.

*9 These function codes are reserved for particular manufacturers. Unless otherwise specified, do not access these function codes.

F codes
E codes
C codes
P codes
H codes
A codes
b codes
r codes
J codes
d codes
U codes
y codes

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
J68	Brake Signal (Brake-OFF current)	0% to 300%	Y	Y	100	Y	Y	Y	Y	N	5-129
J69	(Brake-OFF frequency/speed)	0.0 to 25.0 Hz	Y	Y	1.0	Y	Y	N	N	N	
J70	(Brake-OFF timer)	0.0 to 5.0 s	Y	Y	1.0	Y	Y	Y	Y	N	
J71	(Brake-ON frequency/speed)	0.0 to 25.0 Hz	Y	Y	1.0	Y	Y	N	Y	N	
J72	(Brake-ON timer)	0.0 to 5.0 s	Y	Y	1.0	Y	Y	Y	Y	N	
J95	(Brake-OFF torque)	0% to 300%	Y	Y	100	N	N	Y	Y	N	
J96	(Speed selection)	0: Detected speed 1: Reference speed	Y	Y	0	N	N	Y	Y	N	5-131
J97	Servo-lock (Gain)	0.00 to 10.00 times	Y*	Y	0.10	N	N	N	Y	N	
J98	(Completion timer)	0.000 to 1.000 s	Y	Y	0.100	N	N	N	Y	N	
J99	(Completion range)	0 to 9999 pulses	Y	Y	10	N	N	N	Y	N	

d codes: Application Functions 2

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
d01	Speed Control 1 (Speed command filter)	0.000 to 5.000 s	Y	Y	0.020	N	Y	Y	Y	N	5-133
d02	(Speed detection filter)	0.000 to 0.100 s	Y*	Y	0.005	N	Y	Y	Y	N	
d03	P (Gain)	0.1 to 200.0 times	Y*	Y	10.0	N	Y	Y	Y	N	
d04	I (Integral time)	0.001 to 9.999 s	Y*	Y	0.100	N	Y	Y	Y	N	5-134
d06	(Output filter)	0.000 to 0.100 s	Y	Y	0.002	N	Y	Y	Y	N	
d07	(Notch filter resonance frequency)	1 to 200 Hz	Y	Y	200	N	N	N	Y	N	
d08	(Notch filter attenuation level)	0 to 20 dB	Y	Y	0	N	N	N	Y	N	
d09	Speed Control (Jogging) (Speed command filter)	0.000 to 5.000 s	Y	Y	0.020	N	Y	Y	Y	N	
d10	(Speed detection filter)	0.000 to 0.100 s	Y*	Y	0.005	N	Y	Y	Y	N	5-134
d11	P (Gain)	0.1 to 200.0 times	Y*	Y	10.0	N	Y	Y	Y	N	5-133
d12	I (Integral time)	0.001 to 9.999 s	Y*	Y	0.100	N	Y	Y	Y	N	
d13	(Output filter)	0.000 to 0.100 s	Y	Y	0.002	N	Y	Y	Y	N	
d14	Feedback Input (Pulse input format)	0: Pulse train sign/Pulse train input 1: Forward rotation pulse/Reverse rotation pulse 2: A/B phase with 90 degree phase shift	N	Y	2	N	Y	N	Y	Y	
d15	(Encoder pulse resolution)	0014 to EA60 (hex.) (20 to 60000 pulses)	N	Y	0400 (1024)	N	Y	N	Y	Y	5-135
d16	(Pulse count factor 1)	1 to 9999	N	Y	1	N	Y	N	Y	Y	
d17	(Pulse count factor 2)	1 to 9999	N	Y	1	N	Y	N	Y	Y	
d21	Speed Agreement/PG Error (Hysteresis width)	0.0% to 50.0%	Y	Y	10.0	N	Y	Y	Y	N	5-136
d22	(Detection timer)	0.00 to 10.00 s	Y	Y	0.50	N	Y	Y	Y	N	
d23	PG Error Processing	0: Continue to run 1: Stop running with alarm 1 2: Stop running with alarm 2	N	Y	2	N	Y	Y	Y	Y	5-51 5-136
d24	Zero Speed Control	0: Not permit at startup 1: Permit at startup	N	Y	0	N	N	Y	Y	N	
d25	ASR Switching Time	0.000 to 1.000 s	Y	Y	0.000	N	Y	Y	Y	Y	
d32	Torque Control (Speed limit 1)	0 to 110 %	Y	Y	100	N	N	Y	Y	Y	5-103
d33	(Speed limit 2)	0 to 110 %	Y	Y	100	N	N	Y	Y	Y	5-137
d41	Application-defined Control	0: Disable (Ordinary control) 1: Enable (Constant peripheral speed control)	N	Y	0	N	Y	N	N	N	5-137
d51	Reserved *9	0 to 500	N	Y	*12	-	-	-	-	-	5-139
d52	Reserved *9	0 to 500	N	Y	*12	-	-	-	-	-	
d53	Reserved *9	0 to 500	N	Y	*12	-	-	-	-	-	
d54	Reserved *9	0 to 500	N	Y	*12	-	-	-	-	-	
d55	Reserved *9	0, 1	N	Y	0	-	-	-	-	-	
d59	Command (Pulse Rate Input) (Pulse input format)	0: Pulse train sign/Pulse train input 1: Forward rotation pulse/Reverse rotation pulse 2: A/B phase with 90 degree phase shift	N	Y	0	Y	Y	Y	Y	Y	5-29 5-139
d61	(Filter time constant)	0.000 to 5.000 s	Y	Y	0.005	Y	Y	Y	Y	Y	5-101
d62	(Pulse count factor 1)	1 to 9999	N	Y	1	Y	Y	Y	Y	Y	
d63	(Pulse count factor 2)	1 to 9999	N	Y	1	Y	Y	Y	Y	Y	
d67	Starting Mode (Auto search)	0: Disable 1: Enable (At restart after momentary power failure) 2: Enable (At restart after momentary power failure and at normal start)	N	Y	2	N	N	Y	N	Y	5-139
d68	Reserved *9	0.0 to 10.0 Hz	N	Y	40	-	-	-	-	-	
d69	Reserved *9	30.0 to 100.0 Hz	Y	Y	30.0	-	-	-	-	-	
d70	Speed Control Limiter	0.00 to 100.00%	Y	Y	100.00	N	Y	N	N	N	
d99	Reserved *9	0 to 3	Y	Y	0	-	-	-	-	-	

*9 These function codes are reserved for particular manufacturers. Unless otherwise specified, do not access these function codes.

*12 The factory default differs depending upon the inverter's capacity.

5 for inverters with a capacity of 3.7 kW (4.0 kW for the EU) or below; 10 for those with 5.5 kW to 22 kW; 20 for those with 30 kW or above

U codes: Application Functions 3

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
U00	Customizable Logic (Mode selection)	0: Disable 1: Enable (Customizable logic operation)	N	Y	0	Y	Y	Y	Y	Y	5-139
U01	Customizable Logic: (Input 1)	0 (1000): Inverter running (RUN)	N	Y	0	Y	Y	Y	Y	Y	
U02	Step 1 (Input 2)	1 (1001): Frequency (speed) arrival signal (FAR)	N	Y	0	Y	Y	Y	Y	N	
		2 (1002): Frequency (speed) detected (FDT)				Y	Y	Y	Y	Y	
		3 (1003): Undervoltage detected (Inverter stopped) (LU)				Y	Y	Y	Y	Y	
		4 (1004): Torque polarity detected (B/D)				Y	Y	Y	Y	Y	
		5 (1005): Inverter output limiting (IOL)				Y	Y	Y	Y	Y	
		6 (1006): Auto-restarting after momentary power failure (IPF)				Y	Y	Y	Y	Y	
		7 (1007): Motor overload early warning (OL)				Y	Y	Y	Y	Y	
		8 (1008): Keypad operation enabled (KP)				Y	Y	Y	Y	Y	
		10 (1010): Inverter ready to run (RDY)				Y	Y	Y	Y	Y	
		11: Switch motor drive source between commercial power and inverter output (For MC on commercial line) (SW88)				Y	Y	N	N	N	
		12: Switch motor drive source between commercial power and inverter output (For secondary side) (SW52-2)				Y	Y	N	N	N	
		13: Switch motor drive source between commercial power and inverter output (For primary side) (SW52-1)				Y	Y	N	N	N	
		15 (1015): Select AX terminal function (For MC on primary side) (AX)				Y	Y	Y	Y	Y	
		22 (1022): Inverter output limiting with delay (IOL2)				Y	Y	Y	Y	Y	
		25 (1025): Cooling fan in operation (FAN)				Y	Y	Y	Y	Y	
		26 (1026): Auto-resetting (TRY)				Y	Y	Y	Y	Y	
		28 (1028): Heat sink overheat early warning (OH)				Y	Y	Y	Y	Y	
		30 (1030): Lifetime alarm (LIFE)				Y	Y	Y	Y	Y	
		31 (1031): Frequency (speed) detected 2 (FDT2)				Y	Y	Y	Y	Y	
		33 (1033): Reference loss detected (REF OFF)				Y	Y	Y	Y	Y	
		35 (1035): Inverter output on (RUN2)				Y	Y	Y	Y	Y	
		36 (1036): Overload prevention control (OLP)				Y	Y	Y	Y	N	
		37 (1037): Current detected (ID)				Y	Y	Y	Y	Y	
		38 (1038): Current detected 2 (ID2)				Y	Y	Y	Y	Y	
		39 (1039): Current detected 3 (ID3)				Y	Y	Y	Y	Y	
		41 (1041): Low current detected (IDL)				Y	Y	Y	Y	Y	
		42 (1042): PID alarm (PID-ALM)				Y	Y	Y	Y	N	
		43 (1043): Under PID control (PID-CTL)				Y	Y	Y	Y	N	
		44 (1044): Motor stopped due to slow flowrate under PID control (PID-STP)				Y	Y	Y	Y	N	
		45 (1045): Low output torque detected (U-TL)				Y	Y	Y	Y	Y	
		46 (1046): Torque detected 1 (TD1)				Y	Y	Y	Y	Y	
		47 (1047): Torque detected 2 (TD2)				Y	Y	Y	Y	Y	
		48 (1048): Motor 1 selected (SWM1)				Y	Y	Y	Y	Y	
		49 (1049): Motor 2 selected (SWM2)				Y	Y	Y	Y	Y	
		50 (1050): Motor 3 selected (SWM3)				Y	Y	Y	Y	Y	
		51 (1051): Motor 4 selected (SWM4)				Y	Y	Y	Y	Y	
		52 (1052): Running forward (FRUN)				Y	Y	Y	Y	Y	
		53 (1053): Running reverse (RRUN)				Y	Y	Y	Y	Y	
		54 (1054): In remote operation (RMT)				Y	Y	Y	Y	Y	
		56 (1056): Motor overheat detected by thermistor (THM)				Y	Y	Y	Y	Y	
		57 (1057): Brake signal (BRKS)				Y	Y	Y	Y	N	
		58 (1058): Frequency (speed) detected 3 (FDT3)				Y	Y	Y	Y	Y	
		59 (1059): Terminal [C1] wire break (C1OFF)				Y	Y	Y	Y	Y	
		70 (1070): Speed valid (DNZS)				N	Y	Y	Y	Y	
		71 (1071): Speed agreement (DSAG)				N	Y	Y	Y	N	
		72 (1072): Frequency (speed) arrival signal 3 (FAR3)				Y	Y	Y	Y	N	
		76 (1076): PG error detected (PG-ERR)				N	Y	Y	Y	N	
		82 (1082): Positioning completion signal (PSET)				N	N	N	Y	N	
		84 (1084): Maintenance timer (MNT)				Y	Y	Y	Y	Y	
		98 (1098): Light alarm (L-ALM)				Y	Y	Y	Y	Y	
		99 (1099): Alarm output (for any alarm) (ALM)				Y	Y	Y	Y	Y	
		101 (1101): Enable circuit failure detected (DECf)				Y	Y	Y	Y	Y	
		102 (1102): Enable input OFF (EN OFF)				Y	Y	Y	Y	Y	
		105 (1105): Braking transistor broken (DBAL)				Y	Y	Y	Y	Y	
		2001 (3001): Output of step 1 (SO01)				Y	Y	Y	Y	Y	
		2002 (3002): Output of step 2 (SO02)				Y	Y	Y	Y	Y	
		2003 (3003): Output of step 3 (SO03)				Y	Y	Y	Y	Y	
		2004 (3004): Output of step 4 (SO04)				Y	Y	Y	Y	Y	
		2005 (3005): Output of step 5 (SO05)				Y	Y	Y	Y	Y	
		2006 (3006): Output of step 6 (SO06)				Y	Y	Y	Y	Y	
		2007 (3007): Output of step 7 (SO07)				Y	Y	Y	Y	Y	

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Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
		2008 (3008): Output of step 8 (SO08) 2009 (3009): Output of step 9 (SO09) 2010 (3010): Output of step 10 (SO10) 4001 (5001): Terminal [X1] input signal (X1) 4002 (5002): Terminal [X2] input signal (X2) 4003 (5003): Terminal [X3] input signal (X3) 4004 (5004): Terminal [X4] input signal (X4) 4005 (5005): Terminal [X5] input signal (X5) 4006 (5006): Terminal [X6] input signal (X6) 4007 (5007): Terminal [X7] input signal (X7) 4010 (5010): Terminal [FWD] input signal (FWD) 4011 (5011): Terminal [REV] input signal (REV) 6000 (7000): Final run command (FL_RUN) 6001 (7001): Final FWD run command (FL_FWD) 6002 (7002): Final REV run command (FL_REV) 6003 (7003): During acceleration (DACC) 6004 (7004): During deceleration (DDEC) 6005 (7005): Under anti-regenerative control (REGA) 6006 (7006): Within dancer reference position (DR_REF) 6007 (7007): Alarm factor presence (ALM_ACT) Setting the value in parentheses () shown above assigns a negative logic output to a terminal. (True if OFF.)				Y	Y	Y	Y	Y	5-139
U03	(Logic circuit)	0: No function assigned 1: Through output + General-purpose timer 2: ANDing + General-purpose timer 3: ORing + General-purpose timer 4: XORing + General-purpose timer 5: Set priority flip-flop + General-purpose timer 6: Reset priority flip-flop + General-purpose timer 7: Rising edge detector + General-purpose timer 8: Falling edge detector + General-purpose timer 9: Rising and falling edge detector + General-purpose timer 10: Input hold + General-purpose timer 11: Increment counter 12: Decrement counter 13: Timer with reset input	N	Y	0	Y	Y	Y	Y	Y	
U04	(Type of timer)	0: No timer 1: On-delay timer 2: Off-delay timer 3: Pulses 4: Retriggerable timer 5: Pulse train output	N	Y	0	Y	Y	Y	Y	Y	
U05	(Timer)	0.00 to 600.00	N	Y	0.00	Y	Y	Y	Y	Y	
U06	Customizable Logic: (Input 1)	See U01.	N	Y	0	See U01.					
U07	Step 2 (Input 2)	See U02.	N	Y	0	See U02.					
U08	(Logic circuit)	See U03.	N	Y	0	Y	Y	Y	Y	Y	
U09	(Type of timer)	See U04.	N	Y	0	Y	Y	Y	Y	Y	
U10	(Timer)	See U05.	N	Y	0.00	Y	Y	Y	Y	Y	
U11	Customizable Logic: (Input 1)	See U01.	N	Y	0	See U01.					
U12	Step 3 (Input 2)	See U02.	N	Y	0	See U02.					
U13	(Logic circuit)	See U03.	N	Y	0	Y	Y	Y	Y	Y	
U14	(Type of timer)	See U04.	N	Y	0	Y	Y	Y	Y	Y	
U15	(Timer)	See U05.	N	Y	0.00	Y	Y	Y	Y	Y	
U16	Customizable Logic: (Input 1)	See U01.	N	Y	0	See U01.					
U17	Step 4 (Input 2)	See U02.	N	Y	0	See U02.					
U18	(Logic circuit)	See U03.	N	Y	0	Y	Y	Y	Y	Y	
U19	(Type of timer)	See U04.	N	Y	0	Y	Y	Y	Y	Y	
U20	(Timer)	See U05.	N	Y	0.00	Y	Y	Y	Y	Y	
U21	Customizable Logic: (Input 1)	See U01.	N	Y	0	See U01.					
U22	Step 5 (Input 2)	See U02.	N	Y	0	See U02.					
U23	(Logic circuit)	See U03.	N	Y	0	Y	Y	Y	Y	Y	
U24	(Type of timer)	See U04.	N	Y	0	Y	Y	Y	Y	Y	
U25	(Timer)	See U05.	N	Y	0.00	Y	Y	Y	Y	Y	

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/PG	Torque control	
U26	Customizable Logic: (Input 1)	See U01.	N	Y	0	See U01.					5-139
U27	Step 6 (Input 2)	See U02.	N	Y	0	See U02.					
U28	(Logic circuit)	See U03.	N	Y	0	Y	Y	Y	Y	Y	
U29	(Type of timer)	See U04.	N	Y	0	Y	Y	Y	Y	Y	
U30	(Timer)	See U05.	N	Y	0.00	Y	Y	Y	Y	Y	
U31	Customizable Logic: (Input 1)	See U01.	N	Y	0	See U01.					
U32	Step 7 (Input 2)	See U02.	N	Y	0	See U02.					
U33	(Logic circuit)	See U03.	N	Y	0	Y	Y	Y	Y	Y	
U34	(Type of timer)	See U04.	N	Y	0	Y	Y	Y	Y	Y	
U35	(Timer)	See U05.	N	Y	0.00	Y	Y	Y	Y	Y	
U36	Customizable Logic: (Input 1)	See U01.	N	Y	0	See U01.					
U37	Step 8 (Input 2)	See U02.	N	Y	0	See U02.					
U38	(Logic circuit)	See U03.	N	Y	0	Y	Y	Y	Y	Y	
U39	(Type of timer)	See U04.	N	Y	0	Y	Y	Y	Y	Y	
U40	(Timer)	See U05.	N	Y	0.00	Y	Y	Y	Y	Y	
U41	Customizable Logic: (Input 1)	See U01.	N	Y	0	See U01.					
U42	Step 9 (Input 2)	See U02.	N	Y	0	See U02.					
U43	(Logic circuit)	See U03.	N	Y	0	Y	Y	Y	Y	Y	
U44	(Type of timer)	See U04.	N	Y	0	Y	Y	Y	Y	Y	
U45	(Timer)	See U05.	N	Y	0.00	Y	Y	Y	Y	Y	
U46	Customizable Logic: (Input 1)	See U01.	N	Y	0	See U01.					
U47	Step 10 (Input 2)	See U02.	N	Y	0	See U02.					
U48	(Logic circuit)	See U03.	N	Y	0	Y	Y	Y	Y	Y	
U49	(Type of timer)	See U04.	N	Y	0	Y	Y	Y	Y	Y	
U50	(Timer)	See U05.	N	Y	0.00	Y	Y	Y	Y	Y	
U71	Customizable Logic Output Signal 1 (Output selection)	0: Disable	N	Y	0	Y	Y	Y	Y	Y	
U72	Customizable Logic Output Signal 2	1: Step 1 output (SO01)	N	Y	0	Y	Y	Y	Y	Y	
U73	Customizable Logic Output Signal 3	2: Step 2 output (SO02)	N	Y	0	Y	Y	Y	Y	Y	
U74	Customizable Logic Output Signal 4	3: Step 3 output (SO03)	N	Y	0	Y	Y	Y	Y	Y	
U75	Customizable Logic Output Signal 5	4: Step 4 output (SO04)	N	Y	0	Y	Y	Y	Y	Y	
		5: Step 5 output (SO05)	N	Y	0	Y	Y	Y	Y	Y	
		6: Step 6 output (SO06)									
		7: Step 7 output (SO07)									
		8: Step 8 output (SO08)									
		9: Step 1 output (SO09)									
		10: Step 10 output (SO10)									
U81	Customizable Logic Output Signal 1 (Function selection)	0 (1000): Select multi-frequency (0 to 1 steps) (SS1)	N	Y	100	Y	Y	Y	Y	N	
		1 (1001): Select multi-frequency (0 to 3 steps) (SS2)				Y	Y	Y	Y	N	
U82	Customizable Logic Output Signal 2	2 (1002): Select multi-frequency (0 to 7 steps) (SS4)	N	Y	100	Y	Y	Y	Y	N	
U83	Customizable Logic Output Signal 3	3 (1003): Select multi-frequency (0 to 15 steps) (SS8)	N	Y	100	Y	Y	Y	Y	N	
U84	Customizable Logic Output Signal 4	4 (1004): Select ACC/DEC time (2 steps) (RT1)	N	Y	100	Y	Y	Y	Y	N	
U85	Customizable Logic Output Signal 5	5 (1005): Select ACC/DEC time (4 steps) (RT2)	N	Y	100	Y	Y	Y	Y	N	
		6 (1006): Enable 3-wire operation (HLD)				Y	Y	Y	Y	Y	
		7 (1007): Coast to a stop (BX)				Y	Y	Y	Y	Y	
		8 (1008): Reset alarm (RST)				Y	Y	Y	Y	Y	
		9 (1009): Enable external alarm trip (THR) (9 = Active OFF, 1009 = Active ON)				Y	Y	Y	Y	Y	
		10 (1010): Ready for jogging (JOG)				Y	Y	Y	Y	N	
		11 (1011): Select frequency command 2/1 (Hz2/Hz1)				Y	Y	Y	Y	N	
		12 (1012): Select motor 2 (M2)				Y	Y	Y	Y	Y	
		13: Enable DC braking (DCBRK)				Y	Y	Y	Y	N	
		14 (1014): Select torque limiter level 2/1 (TL2/TL1)				Y	Y	Y	Y	Y	
		15: Switch to commercial power (50 Hz) (SW50)				Y	Y	N	N	N	
		16: Switch to commercial power (60 Hz) (SW60)				Y	Y	N	N	N	
		17 (1017): UP (Increase output frequency) (UP)				Y	Y	Y	Y	N	
		18 (1018): DOWN (Decrease output frequency) (DOWN)				Y	Y	Y	Y	N	
		20 (1020): Cancel PID control (Hz/PID)				Y	Y	Y	Y	N	
		21 (1021): Switch normal/inverse operation (IVS)				Y	Y	Y	Y	N	
		22 (1022): Interlock (IL)				Y	Y	Y	Y	Y	
		23 (1023): Cancel torque control (Hz/TRQ)				N	N	N	N	Y	
		24 (1024): Enable communications link via RS-485 or fieldbus (LE)				Y	Y	Y	Y	Y	
		25 (1025): Universal DI (U-DI)				Y	Y	Y	Y	Y	
		26 (1026): Enable auto search for idling motor speed at starting (STM)				Y	Y	Y	N	Y	
		30 (1030): Force to stop (STOP) (30 = Active OFF, 1030 = Active ON)				Y	Y	Y	Y	Y	

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Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
		32 (1032): Pre-excitation (EXITE)				N	N	Y	Y	N	5-139
		33 (1033): Reset PID integral and differential components (PID-RST)				Y	Y	Y	Y	N	
		34 (1034): Hold PID integral component (PID-HLD)				Y	Y	Y	Y	N	
		35 (1035): Select local (keypad) operation (LOC)				Y	Y	Y	Y	Y	
		36 (1036): Select motor 3 (M3)				Y	Y	Y	Y	Y	
		37 (1037): Select motor 4 (M4)				Y	Y	Y	Y	Y	
		39: Protect motor from dew condensation (DWP)				Y	Y	Y	Y	Y	
		40: Enable integrated sequence to switch to commercial power (50 Hz) (ISW50)				Y	Y	N	N	N	
		41: Enable integrated sequence to switch to commercial power (60 Hz) (ISW60)				Y	Y	N	N	N	
		47 (1047): Servo-lock command (LOCK)				N	N	N	Y	N	
		49 (1049): Pulse train sign (SIGN)				Y	Y	Y	Y	Y	
		70 (1070): Cancel constant peripheral speed control (Hz/LSC)				Y	Y	Y	Y	N	
		71 (1071): Hold the constant peripheral speed control frequency in the memory (LSC-HLD)				Y	Y	Y	Y	N	
		72 (1072): Count the run time of commercial power-driven motor 1 (CRUN-M1)				Y	Y	N	N	Y	
		73 (1073): Count the run time of commercial power-driven motor 2 (CRUN-M2)				Y	Y	N	N	Y	
		74 (1074): Count the run time of commercial power-driven motor 3 (CRUN-M3)				Y	Y	N	N	Y	
		75 (1075): Count the run time of commercial power-driven motor 4 (CRUN-M4)				Y	Y	N	N	Y	
		76 (1076): Select droop control (DROOP)				Y	Y	Y	Y	N	
		77 (1077): Cancel PG alarm (PG-CCL)				N	Y	N	Y	Y	
		81 (1081): Clear all customizable logic timers (CLTC)				Y	Y	Y	Y	Y	
		98: Run forward (FWD)				Y	Y	Y	Y	Y	
		99: Run reverse (REV)				Y	Y	Y	Y	Y	
		100: No function assigned (NONE)				Y	Y	Y	Y	Y	
		Setting the value of 1000s in parentheses () shown above assigns a negative logic input to a terminal.									
U91	Customizable Logic Timer Monitor (Step selection)	1: Step 1 2: Step 2 3: Step 3 4: Step 4 5: Step 5 6: Step 6 7: Step 7 8: Step 8 9: Step 9 10: Step 10	N	Y	1	Y	Y	Y	Y	Y	

y codes: LINK Functions

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
y01	RS-485 Communication 1 (Station address)	1 to 255	N	Y	1	Y	Y	Y	Y	Y	5-147
y02	(Communications error processing)	0: Immediately trip with alarm E_rB 1: Trip with alarm E_rB 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 E_rB . If it succeeds, continue to run. 3: Continue to run	Y	Y	0	Y	Y	Y	Y	Y	
y03	(Timer)	0.0 to 60.0 s	Y	Y	2.0	Y	Y	Y	Y	Y	
y04	(Baud rate)	0: 2400 bps 1: 4800 bps 2: 9600 bps 3: 19200 bps 4: 38400 bps	Y	Y	3	Y	Y	Y	Y	Y	
y05	(Data length)	0: 8 bits 1: 7 bits	Y	Y	0	Y	Y	Y	Y	Y	
y06	(Parity check)	0: None (2 stop bits) 1: Even parity (1 stop bit) 2: Odd parity (1 stop bit) 3: None (1 stop bit)	Y	Y	0	Y	Y	Y	Y	Y	
y07	(Stop bits)	0: 2 bits 1: 1 bit	Y	Y	0	Y	Y	Y	Y	Y	

Code	Name	Data setting range	Change when running	Data copying	Default setting	Drive control					Refer to page:
						V/f	PG V/f	w/o PG	w/ PG	Torque control	
y08	RS-485 Communication 1 (No-response error detection time) (Response interval) (Protocol selection)	0: No detection; 1 to 60 s	Y	Y	0	Y	Y	Y	Y	Y	5-147
y09		0.00 to 1.00 s	Y	Y	0.01	Y	Y	Y	Y	Y	
y10		0: Modbus RTU protocol 1: FRENIC Loader protocol (SX protocol) 2: Fuji general-purpose inverter protocol	Y	Y	1	Y	Y	Y	Y	Y	
y11	RS-485 Communication 2 (Station address)	1 to 255	N	Y	1	Y	Y	Y	Y	Y	
y12	(Communications error processing) (Timer)	0: Immediately trip with alarm $E-rP$ 1: Trip with alarm $E-rP$ 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 $E-rP$. If it succeeds, continue to run. 3: Continue to run	Y	Y	0	Y	Y	Y	Y	Y	
y13		0.0 to 60.0 s	Y	Y	2.0	Y	Y	Y	Y	Y	
y14		(Baud rate)	0: 2400 bps 1: 4800 bps 2: 9600 bps 3: 19200 bps 4: 38400 bps	Y	Y	3	Y	Y	Y	Y	Y
y15	(Data length)	0: 8 bits 1: 7 bits	Y	Y	0	Y	Y	Y	Y	Y	
y16	(Parity check)	0: None (2 stop bits) 1: Even parity (1 stop bit) 2: Odd parity (1 stop bit) 3: None (1 stop bit)	Y	Y	0	Y	Y	Y	Y	Y	
y17	(Stop bits)	0: 2 bits 1: 1 bit	Y	Y	0	Y	Y	Y	Y	Y	
y18	(No-response error detection time)	0: No detection; 1 to 60 s	Y	Y	0	Y	Y	Y	Y	Y	
y19	(Response interval)	0.00 to 1.00 s	Y	Y	0.01	Y	Y	Y	Y	Y	
y20	(Protocol selection)	0: Modbus RTU protocol 2: Fuji general-purpose inverter protocol	Y	Y	0	Y	Y	Y	Y	Y	
y97	Communication Data Storage Selection	0: Save into nonvolatile storage (Rewritable times limited) 1: Write into temporary storage (Rewritable times unlimited) 2: Save all data from temporary storage to nonvolatile one (After saving data, the y97 data automatically returns to "1.")	Y	Y	0	Y	Y	Y	Y	Y	5-149
y98	Bus Link Function (Mode selection)	Frequency command Run command 0: Follow H30 data Follow H30 data 1: Via fieldbus option Follow H30 data 2: Follow H30 data Via fieldbus option 3: Via fieldbus option Via fieldbus option	Y	Y	0	Y	Y	Y	Y	Y	5-105 5-149
y99	Loader Link Function (Mode selection)	Frequency command Run command 0: Follow H30 and y98 data Follow H30 and y98 data 1: Via RS-485 link (FRENIC Loader) Follow H30 and y98 data 2: Follow H30 and y98 data Via RS-485 link (FRENIC Loader) 3: Via RS-485 link (FRENIC Loader) Via RS-485 link (FRENIC Loader)	Y	N	0	Y	Y	Y	Y	Y	5-149

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