

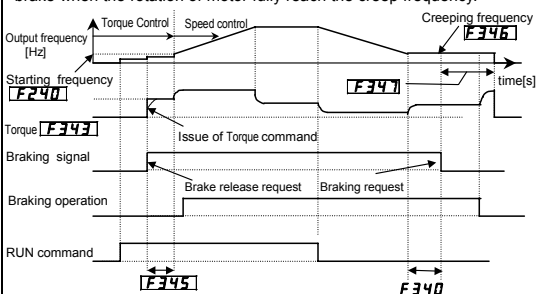
■Information on software version up

Following information is changed specification points by software version up (Ver. 136,142,150).

The software version can be checked by the "CPU1 version" of status monitor.

Please refer to "8.2 Monitoring the status".

The software version would be changed without preliminary announcement.

Item	Changed contents	Page
New auto-tuning function (200V-55kW or more, 400V-90kW or more)	The new function is for 200V-55kW or more and 400V-90kW or more. By the auto-tuning execution of $F400=2$ and 4, all parameter of motor constant 1-4 ($F410-F413$) can be set. However, it might take about three minutes for the auto tuning. It is not error that the tuning time is long. Do not touch a motor, wiring equipment and so on during the tuning because the motor doesn't rotate but the electrical power is applied. Do not approach near the motor and the machine because the motor rotates after the tuning.	6.22
Added the monitor for options in parameter $F05L, R05L$	$F05L, R05L$: FM/AM terminal meter selection Adjustment range: 0~64 → 0~76 65~73: Function none 74: MON1 75: MON2 76: RP	5.16
Added parameter $F313$	$F313$: Output voltage waveform selection Adjustment range 0: PWM carrier frequency control 1 1: PWM carrier frequency control 2 It is setting it as $F313=1$, Inverter loss can be reduced a little with following condition by $F313=1$. It has the effect of raising some amount of the overload for inverter (when inverter overload detection being estimation of temperature system ($F631=1$)). 1) when using it with the career frequency raised (4kHz or more) 2) The driving frequency is 30% or more of the base frequency However, the magnetic noise from a motor is changed a little. Please confirm the noise whether there is any problem. This parameter works at 200V-55kW or more and 400V-90kW or more.	—
Added the setting for using sinusoidal filter (option) in parameter $F316$	$F316$: Carrier frequency control mode selection Adjustment range: 0~3 → 0~5 4: Not decrease carrier frequency automatically, with sinusoidal filter 5: Decrease carrier frequency automatically, with sinusoidal filter If $F316=4$ or 5 is set, it automatically becomes V/f control ($P\>0$) mode. Moreover, the lower-limit of the career frequency becomes 4kHz. This parameter works at 200V-55kW or more and 400V-90kW or more.	5.17
Added parameter $F340$	$F340$: Creeping time1 Adjustment range: 0.00~2.50sec. This function is for the brake control of hoist. It is possible to adjust the time of closed brake from reaching the creep frequency ($F345$). It is able to be minimize swing of burden because it is possible to close a brake when the rotation of motor fully reach the creep frequency. 	—
Added the setting for dancer control in parameter $F359$	$F359$: PID control switching Adjustment range: 0~3 → 0~4 4: Dancer control The dancer control function for control of line speed by the speed reference and the positioning feedback signal of dancer roll was added.	*1



Item	Changed contents	Page
Added parameter $F379$	$F379$:PID output dead band Adjustment range:0~100% The parameter for dead band adjustment of the PID output was added for dancer control.	*1
The description of the adjustable range and the Minimum setting unit were corrected for parameter $F412$	$F412$:Motor constant 3 (leak inductance) Adjustment range:0~200% → 0~200(×0.1%) Minimum setting unit(Panel/Communication):0.1/0.1 → 1/1	6.22
Added parameter $F421$	$F421$:Torque reference filter Adjustment range:0~1000ms The filter for the input command of the torque control was added.	*2
Added parameter $F455$	$F455$:Torque reference polarity selection Adjustment range 0:When reversing, reverse the polarity 1:When reversing, doesn't reverse the polarity The polarity of the torque signal passed from the master to the slave was added for the tune driving such as master (speed control) and slave (torque control) driving, and to make both the forward and reverse are made the same polarity.	*2
Added parameter $F467$	$F467$:Motor oscillation control Adjustment range 0:Disabled 1:Enabled (Low gain) 2:Enabled (Middle gain) 3:Enabled (High gain) When a motor is in unstable with light load, this parameter can change the motor gain to make motor condition stable. First set $F467=1$ and check the motor condition. Please set 2 to 3 in case motor needs more stable condition. This parameter is effective at only V/f control mode($Pt=0,1,5$).	—
Added parameter $F468$	$F468$:Stall prevention control switching Adjustment range 0:Stall prevention control 1 1: Stall prevention control 2 The operation of the stall prevention control can be switched. Set $F468=1$ when the overvoltage trip etc. are displayed when acceleration and the deceleration are switched. This parameter is effective at only V/f control mode($Pt=0,1,5$).	—
Added parameter $F469$	$F469$:Overvoltage limit constant Adjustment range 0: Automatic, 1~1000ms The filter time constant of the overvoltage limitation can be adjusted. This parameter is effective at only V/f control mode($Pt=0,1,5$).	—
Added parameter $F495$	$F495$:Max output voltage modulation rate Adjustment range 0:Standard 1:Disable 2:Enabled(Low gain) 3: Enabled(High gain) In the case that inverter output voltage drops and output current exceeds motor rating current at the frequency higher than base frequency. Change this parameter setting and check whether the output current is reduced.	—
Added parameter $F576\sim F594$	This function is for Ethernet communication option. (planning)	*3
Enable range in parameter $F622$	$F622$: Abnormal speed detection time V/f($Pt=0,1,5$):Disable → Enable Speed control($Pt=2,3,4$) :Disable → Enable PM control ($Pt=6$) :Disable → Enable The function was added for sensorless control.	6.33.13
Minimum setting unit, Default setting and enable range in parameter $F623, F624$	$F623$: Overspeed detection frequency upper band $F624$: Overspeed detection frequency lower band Minimum setting unit(Panel / Communication):0.1/0.01 → 0.01/0.01 Default setting:0.0 → 0 V/f ($Pt=0,1,5$) :Disable → Enable Speed control($Pt=2,3,4$) :Disable → Enable PM control($Pt=6$) :Disable → Enable The function was added for sensorless control.	6.33.13
Added the monitor for options in parameter $F672, F674$	$F672, F674$: MON1/MON2 terminal meter selection. Adjustment range:0~64 → 0~76 65~73:Function none 74:MON1 75:MON2 76:RP	*9
The adjustment range of parameter $F684$	$F684$:FM output filter Adjustment range:0~4 → 0~8 5:Filter approx.120ms 6:Filter approx.250ms 7:Filter approx.500ms 8:Filter approx.1s The adjustment range of FM output filter was added.	5.16

Item	Changed contents	Page
Added the conversion parameter of <i>F 7 0 3</i>	<i>F 7 0 3</i> =1 The following parameters were added to the conversion object. <i>F 5</i> (Frequency on the operation panel). <i>F 2 0 2</i> , <i>R 1 F 2</i> , <i>F 2 0 8</i> , <i>F 2 1 1</i> , <i>R 0 F 2</i> , <i>F 2 1 7</i> , <i>F 2 1 9</i> , <i>F 2 2 3</i> , <i>F 2 2 5</i> , <i>F 2 2 9</i> , <i>F 2 3 1</i> , <i>F 2 3 5</i> , <i>F 2 3 7</i> , <i>F 3 7 0</i> , <i>F 3 7 1</i> . Almost parameters used by the PID control were added.	6.36.2
Added the new monitor in parameter <i>F 7 1 0~F 7 1 8</i>	<i>F 7 1 0~F 7 1 8</i> :Status monitor Display selection Adjustment range:0~69 → 0~80 70:Rated voltage 71:Rotational speed 72:Communication option Reception counter 73:Communication option Abnormal counter 74:MON1 75:MON2 76:RP 77:COUNT1 78:COUNT2 79:PID result frequency 80:Synchronous speed Frequency command	8.3
Added parameter <i>F 7 8 4~F 7 9 9</i>	This function is for Ethernet communication option. (planning)	*3
Added parameter <i>F 8 0 8</i>	<i>F 8 0 8</i> :Communication1 time-out condition selection Adjustment range 0:Disconnection detection 1:When communication mode enable 2:1+Driving operation	*4
Added parameter <i>F 8 1 5~F 8 1 9</i>	This function is for Modbus plus communication option. (planning)	*5
Added parameter <i>F 8 2 1~F 8 2 4</i>	This function is for Ethernet communication option. (planning)	*3
Added parameter <i>F 8 3 7,F 8 3 8</i>	<i>F 8 3 7,F 8 3 8</i> :Communication option setting 8,9 Adjustment range:0000~FFFF	*6
Added parameter <i>F 8 4 7,F 8 4 8</i>	<i>F 8 4 7,F 8 4 8</i> :Communication option setting 16,17 Adjustment range:0000~FFFF	*6
Added parameter <i>F 8 4 9</i>	<i>F 8 4 9</i> :Communication2 time-out condition selection Adjustment range 0:Disconnection detection 1:When communication mode enable 2:1+Driving operation	*6
Added parameter <i>F 8 5 6</i>	<i>F 8 5 6</i> :Motor pairs of poles for communication Adjustment range 1:2 Poles 2:4 Poles 3:6 Poles 4:8 Poles 5:10 Poles 6:12 Poles 7:14 Poles 8:16 Poles	*7
The adjustment range of parameter <i>F 8 7 0,F 8 7 1</i>	<i>F 8 7 0,F 8 7 1</i> :Block write data 1,2 Adjustment range:0~5 → 0~6 6:Rotational speed instruction	6.39.1
The adjustment range of parameter <i>F 8 7 5~F 8 7 9</i>	<i>F 8 7 5~F 8 7 9</i> :Block read data 1~5 Adjustment range:0~19 → 0~20 20:Rotational speed	6.39.1
The adjustment range of parameter <i>F 9 0 1</i>	<i>F 9 0 1</i> :Input function command 12 Adjustment range:0~20 → 0~22 21:CLR 22:CLRN	*8
The adjustment range of parameter <i>F 9 5 9</i>	<i>F 9 5 9</i> :Analog input function target 1 Adjustment range:0~5 → 0~6 6:Inner memory 1	*8
The adjustment range of parameter <i>F 9 6 2</i>	<i>F 9 6 2</i> :Analog input function target 2 Adjustment range:0~5 → 0~6 6:Inner memory 2	*8
The output frequency is added to the status monitor.	Display information on the output frequency [FE00] was added ahead of input terminal information #1 on the state monitor. This monitor keeps displaying the frequency at trip during the state of trip.	8.1

*1:⇒For details, refer to Instruction Manual (E6581329) specified in Section 6.42.

*2:⇒For details, refer to Instruction Manual (E6581331) specified in Section 6.42.

*3:⇒This function is for Ethernet communication option(planning).

*4:⇒For details, refer to Instruction Manual (E6581315) specified in Section 6.42.

*5:⇒This function is for Modbus plus communication option(planning).

*6:⇒For details, refer to Instruction Manual (E6581281,E6581343) specified in Section 6.42.

*7:⇒For details, refer to Instruction Manual (E6581281,E6581343,E6581476) specified in Section 6.42.

*8:⇒For details, refer to Instruction Manual (E6581335) specified in Section 6.42.

*9:⇒For details, refer to Instruction Manual (E6581341) specified in Section 6.42.

Monitor FM/AM/pulse output function selection

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

FM/AM/Pulse output		Monitor output		Function	Unit of communication	Tripretention	Speed control	Torque Control	PM Control	V/f	Reference
Option No.	Communication No.	Option No.	Communication No.								
65~73 Function none		70	FE71	Rated voltage	0.1	×	●/●	●/●	●	●	5.16 8.3
		71	FE90	Rotational speed	1	×	●/●	●/●	●	●	
		72	FA15	Communicationoption Reception counter	1	×	●/●	●/●	●	●	
		73	FA16	Communicationoption Abnormal counter	1	×	●/●	●/●	●	●	
74	FE43	74	FE43	MON1	0.01%	×	●/●	●/●	●	●	
75	FE44	75	FE44	MON2	0.01%	×	●/●	●/●	●	●	
76	FE56	76	FE56	RP	0.01%	×	●/●	●/●	●	●	
—	—	77	FD85	COUNT1	1	×	●/●	●/●	●	●	
—	—	78	FD86	COUNT2	1	×	●/●	●/●	●	●	
—	—	79	FD52	PID result frequency	0.1/0.01	×	●/●	—	●	●	
—	—	80	FE84	Synchronous speed Frequency command	0.1/0.01	○	●/●	—	●	●	

Input terminal function setting

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

Positive logic	Negative logic	Function	Speed control	Torque Control	PM Control	V/f	$\frac{F}{n} \frac{d}{d} = 1$	$F \frac{1}{d} \frac{d}{d} = 1$	Reference
94	95	Dancer Correction OFF	●/●	—	●	●	●	—	7.2.1

Output terminal function setting

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

Positive logic	Negative logic	Function	Speed control	Torque Control	PM Control	V/f	Reference
164	165	Motor oscillation contro1 (VFA7 Compatibility)	●/●	—/—	●	●	7.2.2

■ Trip information

Updated trip information on VF-AS1 Instruction Manual E6581442 / E6581301③.

The information addition of Trip $E P H \bar{Q}$	Possible causes : · The output side of an inverter was opened by magnetic contact etc. during operation. Remedies : · Set output phase failure detection mode selection $F \bar{5} \bar{Q} \bar{5}$ to 5(Output side disconnection detection exist). Open the output side to the capacity of 200V-55kW or more and 400V-90kW or more after assuming the motor to be a free run by using the terminal ST.	M-3
Specification of trip $E - 1 \bar{3}$	Possible causes : · Encoder error (inverter error) Remedies : · Check connection of encoder. · Connect encoder correctly. Possible causes : · Speed error(Inverter error ,Encoder error) · Over speed by overvoltage limit operation Remedies : · Check the setting of $F \bar{5} \bar{2} \bar{2} \sim F \bar{5} \bar{2} \bar{4}$ · Check connection of encoder. · In the case of overvoltage limit operation, install a dynamic braking resistor.	M-4
Specification of trip $E - \bar{2} \bar{Q}$	Possible causes: · An internal control error occurs. Remedies: · Make a service call. Possible causes: · Output voltage / Output frequency ratio is too high compared to motor rating. · It was run in vector control mode ($P \bar{L} = \bar{2}, \bar{3}, \bar{4}, \bar{7}$ or $\bar{8}$) without setting parameters (Auto-tuning) concerning the motor. · Motor was in over-excitation state during deceleration. · Motor constant 1 (Torque boost) $F \bar{4} \bar{1} \bar{Q}$ is too large. · Motor was started under the brake closed. Remedies : · Set Base frequency voltage 1 $\bar{U} \bar{L} \bar{U}$ and Base frequency $\bar{U} \bar{L}$ in accordance with motor rating. · When operating a motor in V/f control mode selection $P \bar{L} = \bar{2}, \bar{3}, \bar{4}, \bar{7}$ or $\bar{8}$, follow section 6.22, and then set the parameters (Auto-tuning) concerning the motor. · If the inverter is tripped during deceleration because of V/f control error ($E - \bar{2} \bar{Q}$) when $F \bar{3} \bar{Q} \bar{5}$ (Over voltage limit operation) is set to 2 or 3, decrease the value for $F \bar{3} \bar{1} \bar{Q}$ (Regenerative over-excitation upper limit). · If the inverter is tripped during low frequency, decrease the value for $F \bar{4} \bar{1} \bar{Q}$. · If the inverter is tripped during braking, make the brake release timing early.	M-4

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f	Reference	Remarks	
							Speed control	Torque control					
F05L	0005	FM terminal meter selection	0~76	1/1	0	Enabled	●/●	●/●	●	●	5.16	Change	
A05L	0670	AM terminal meter selection	0~76	1/1	2	Enabled	●/●	●/●	●	●	5.16	Change	
F313	0313	Output voltage waveform selection *3	0:PWM carrier frequency control 1 1:PWM carrier frequency control 2	1/1	0	Disabled	●/●	●/●	●	●	—	Add	
F316	0316	Carrier frequency control mode selection	0:Not decrease carrier frequency automatically 1:Decrease carrier frequency automatically 2:Not decrease carrier frequency automatically, 400V class supported 3:Decrease carrier frequency automatically, 400V class supported 4:Not decrease carrier frequency automatically, with sinusoidal filter *3 5:Decrease carrier frequency automatically, with sinusoidal filter *3	1/1	1	Disabled	●/●	●/●	●	●	5.17	Change	
F340	0340	Creeping time1	0.00~2.50sec.	0.01/0.01	0	Enabled	●/●	—	—	—	—	Add	
F359	0359	PID control switching	0:No PID control 1:Process type PID control (temp./pressure, etc.) operation 2:Speed type PID control (potentiometer, etc.) operation 3:Stop retaining P control 4:Dancer control	1/1	0	Disabled	●/●	—	●	●	*1,*2	Change	
F379	0379	PID output dead band	0~100%	1/1	0	Enabled	●/●	—	●	●	*2	Add	
F412	0412	Motor constant 3 (leak inductance)	0~200(×0.1%)	1/1	*4	Disabled	●/●	●/●	—	—	6.22	Change	
F421	0421	Torque reference filter	0~1000ms	1/1	0	Enabled	—	●/●	—	—	*5	Add	
F455	0455	Torque reference polarity selection	0:It is interchangeable so far. (When reversing,reverses the polarity.) 1:The polarity doesn't reverse when reversing.	1/1	0	Disabled	●/●	●/●	●	—	*5	Add	
F467	0467	Motor oscillation control	0:Disabled 1:Enabled(Low gain) 2:Enabled(Middle gain) 3:Enabled(High gain)	1/1	0	Disabled	—/—	—/—	—	●	—	Add	
F468	0468	Stall prevention control switching	0: Stall prevention control 1 1: Stall prevention control 2	1/1	0	Disabled	—/—	—/—	—	●	—	Add	
F469	0469	Overvoltage limit constant	0: Automatic, 1~1000ms	1/1	0	Disabled	—/—	—/—	—	●	—	Add	
F495	0495	Max output voltage modulation rate	0:Standard 1:Disabled 2:Enabled(Low gain) 3:Enabled(High gain)	1/1	0	Disabled	●/●	●/●	●	●	—	Add	
F576	0576	IP address setting method		0~2	1/1	0	Enabled	●/●	●/●	●	●	*6	Add
F577	0577	IP card	Data1	0~255	1/1	0	Enabled	●/●	●/●	●	●	*6	Add

*1:⇒For details, refer to Instruction Manual (E6581319) specified in Section 6.42.

*3:⇒VFAS1-2550P or more and VFAS1-4900PC or more.

*5:⇒For details, refer to Instruction Manual (E6581331) specified in Section 6.42.

*2:⇒For details, refer to Instruction Manual (E6581329) specified in Section 6.42.

*4:⇒Default values vary depending on the capacity. ⇒ See the table of K-50.

*6:⇒This function is for Ethernet communication option. (planning)

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

Title	Communication No.	Function		Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f	Reference	Remarks
								Speed control	Torque control				
F578	0588	IP card	Data2	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F579	0589		Data3	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F580	0580		Data4	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F581	0581	Subnet mask	Data1	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F582	0582		Data2	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F583	0583		Data3	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F584	0584	IP gate1	Data4	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F585	0585		Data1	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F586	0586		Data2	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F587	0587	IP master	Data3	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F588	0588		Data4	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F589	0589		Data1	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F590	0590	IP master	Data2	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F591	0591		Data3	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F592	0592		Data4	0~255	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F593	0593	IO scan permission		0~1	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F594	0594	Communication time-out(Modbus)		0.0~60.0sec.	0.1/0.1	0	Enabled	●/●	●/●	●	●	*1	Add
F622	0622	Abnormal speed detection time		0.01~100.0sec.	0.01/0.01	0.01	Enabled	●/●	●/●	●	●	6.33.13	Change
F623	0623	Overspeed detection frequency upper band		0.00:Disabled, 0.01~30.00Hz	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	6.33.13	Change
F624	0624	Overspeed detection frequency lower band		0.00:Disabled, 0.01~30.00Hz	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	6.33.13	Change
F672	0672	MON1 terminal meter selection		0~76	1/1	4	Enabled	●/●	●/●	●	●	*2	Change
F674	0674	MON2 terminal meter selection		0~76	1/1	5	Enabled	●/●	●/●	●	●	*2	Change
F684	0684	FM output filter		0:No filter 1:Filter approx10ms 2:Filter approx15ms 3:Filter approx30ms 4:Filter approx60ms 5:Filter approx120ms 6:Filter approx250ms 7:Filter approx500ms 8:Filter approx1s	1/1	0	Enabled	●/●	●/●	●	●	5.16	Change
F710 F718	0710 ~ 0718	Status monitor display selection		0~80	1/1	*4	Enabled	●/●	●/●	●	●	8.3	Change
F784	0784	MAC address	Data1	0~255	1/1	0	*3	●/●	●/●	●	●	*1	Add
F785	0785		Data2	0~255	1/1	0	*3	●/●	●/●	●	●	*1	Add

*1:⇒This function is for Ethernet communication option.(planning)

*2:⇒For details, refer to Instruction Manual (E6581341) specified in Section 6.42.

*3:⇒ Read only

*4:⇒For details, refer to K-26

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

Title	Communi- cation No.	Function		Adjustment range	Minimum setting unit (Panel/Communi- cation)	Default setting	Write during running	Vector control		PM control	V/f	Reference	Remarks	
								Speed control	Torque control					
F786	0786	MAC address	Data3	0~255	1/1	0	*3	●/●	●/●	●	●	*1	Add	
F787	0787		Data4	0~255	1/1	0	*4	●/●	●/●	●	●	*1	Add	
F788	0788		Data5	0~255	1/1	0	*4	●/●	●/●	●	●	*1	Add	
F789	0789		Data6	0~255	1/1	0	*4	●/●	●/●	●	●	*1	Add	
F792	0792	Device name	Data1	0000~FFFF	1/1	0	*4	●/●	●/●	●	●	*1	Add	
F793	0793		Data2	0000~ FFFF	1/1	0	*4	●/●	●/●	●	●	*1	Add	
F794	0794		Data3	0000~ FFFF	1/1	0	*4	●/●	●/●	●	●	*1	Add	
F795	0795		Data4	0000~ FFFF	1/1	0	*4	●/●	●/●	●	●	*1	Add	
F796	0796		Data5	0000~ FFFF	1/1	0	*4	●/●	●/●	●	●	*1	Add	
F797	0797		Data6	0000~ FFFF	1/1	0	*4	●/●	●/●	●	●	*1	Add	
F798	0798		Data7	0000~ FFFF	1/1	0	*4	●/●	●/●	●	●	*1	Add	
F799	0799		Data8	0000~ FFFF	1/1	0	*4	●/●	●/●	●	●	*1	Add	
F808	0808	Communication1 time-out condition selection		0:Disconnection detection 1:When communication mode enable 2:1+Driving operation		1/1	0	Enabled	●/●	●/●	●	●	*2	Add
FB15	0815	Address monitor (Modbus puls)		1~64		1/1	1	*4	●/●	●/●	●	●	*3	Add
FB16	0816	Command selection (Modbus puls)		0:Prohibition, 1:Prohibition		1/1	0	Enabled	●/●	●/●	●	●	*3	Add
FB17	0817	Number of command (Modbus puls)		0~8		1/1	0	Enabled	●/●	●/●	●	●	*3	Add
FB18	0818	Number of monitors (Modbus puls)		0~8		1/1	0	Enabled	●/●	●/●	●	●	*3	Add
FB19	0819	Command station (Modbus puls)		0~64		1/1	0	Enabled	●/●	●/●	●	●	*3	Add
FB21	0821	Baud rate (Ethernet)		0:Automatic detection 1:10Mbps Full 2:10Mbps Half 3:100Mbps Full 4:100Mbps Half		1/1	0	Enabled	●/●	●/●	●	●	*1	Add
FB22	0822	Baud rate monitor right port (Ethernet)		0:Automatic detection 1:10Mbps Full 2:10Mbps Half 3:100Mbps Full 4:100Mbps Half		1/1	—	—	●/●	●/●	●	●	*1	Add
FB23	0823	Baud rate monitor left port (Ethernet)		0:Automatic detection 1:10 Mbps Full 2:10Mbps Half 3:100Mbps Full 4:100Mbps Half		1/1	—	—	●/●	●/●	●	●	*1	Add

*1:⇒This function is for Ethernet communication option.(planning).

*3:⇒This function is for Modbus plus communication option(planning).

*2:⇒For details, refer to Instruction Manual (E6581315) specified in Section 6.42.

*4:⇒Read only

Sensorless vector/vector with sensor (●:Effective, -:Ineffective)

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f	Reference	Remarks
							Speed control	Torque control				
F824	0824	(Reservation)	0:- 1:- 2:- 3:-	1/1	0	Enabled	●/●	●/●	●	●	*1	Add
F837	0837	Communication option setting 8	0000~FFFF	1/1	0	Enabled	●/●	●/●	●	●	*2	Add
F838	0838	Communication option setting 9	0000~FFFF	1/1	0	Enabled	●/●	●/●	●	●	*2	Add
F847	0847	Communication option setting 15	0000~FFFF	1/1	0	Enabled	●/●	●/●	●	●	*2	Add
F848	0848	Communication option setting 16	0000~FFFF	1/1	0	Enabled	●/●	●/●	●	●	*2	Add
F849	0849	Communication2 time-out condition selection	0:Disconnection detection 1:When communication mode enable 2:1+Driving operation	1/1	0	Enabled	●/●	●/●	●	●	*2	Add
F856	0856	Motor pairs of poles for communication	1:2 Poles 2:4 Poles 3:6 Poles 4:8 Poles 5:10 Poles 6:12 Poles 7:14 Poles 8:16 Poles	1/1	2	Enabled	●/●	●/●	●	●	*3	Add
F870	0870	Block write data 1	0~6	1/1	0	Enabled	●/●	●/●	●	●	6.39.1	Change
F871	0871	Block write data 2	6:Rotational speed instruction									
F875 ~ F879	0875 ~ 0879	Block read data 1~5	0~20 20:Rotational speed	1/1	0	Enabled	●/●	●/●	●	●	6.39.1	Change
F901	0901	Input function command 12	0~20 21:CLR 22:CLRn	1/1	0	Enabled	●/●	●/●	●	●	*4	Change
F959	0959	Analog input function target 1	0~6 6:Internal memory1	1/1	0	Enabled	●/●	●/●	●	●	*4	Change
F962	0962	Analog input function target 2	0~6 6:Internal memory2	1/1	0	Enabled	●/●	●/●	●	●	*4	Change

*1:⇒This function is for Ethernet communication option.(planning)

*2:⇒For details, refer to Instruction Manual (E6581281,E6581343) specified in Section 6.42.

*3:⇒For details, refer to Instruction Manual (E6581281,E6581343,E6581476) specified in Section 6.42.

*4:⇒For details, refer to Instruction Manual (E6581335) specified in Section 6.42.