

TOSVERT VF-AS1

Parameter List

VF-AS1 Parameter List

Setting date	
Customer	
End user	
Application	
Application No/ Serial No	
Inverter's Type-Form	
Quantity	
Inverter's Serial No	
Motor's capacity	

If user's setting value is same as shipping value, entry column is blank.

-Connected option

Option's name (Type-Form)

-Terminal stand use state

	Terminal Name	Use state
Main terminal block	PA/+	
	PB	
	PC/-	
	P0	
	R/L1	
	S/L2	
	T/L3	
	U/T1	
	V/T2	
	W/T3	
	R0 *1	
	S0 *1	
	T0 *1	
	E/G	
Control terminal block	+SU	
	F	
	R	
	ST	
	RES	
	S1	
	S2	
	S3	
	CC	
	PP	
	RR/S4	
	VI/II	
	RX	
	FM	
	AM	
	CCA	
	P24	
	OUT1	
	OUT2	
	NO	
	CC	
	FLA	
	FLB	
	FLC	
Switch	SW1 (Sink/Source switching)	INT/PLC , PLC , INT
	SW2 (FM output switching)	0-10V/0-20mA , 0-1mA
	SW3 (RR/S4 terminal switching)	S4 , RR
	SW4 (OUT1 output switching)	PULS , LO

*1: Only for over 200V-75kW, 400V-110kW.

1. Basic parameter [1/2]

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f	User setting
							Speed control	Torque control			
<i>RUH</i>	-	History function		1/1	-	-	●/●	●/●	●	●	
<i>RU1</i>	0000	Automatic acceleration/deceleration	0: Deselect 1: Automatic setting 2: Automatic setting (during acceleration only)	1/1	0	Disabled	●/●	-	●	●	
<i>RU2</i>	0001	Automatic torque boost	0: Deselect 1: Automatic torque boost + auto-tuning 1 2: Sensorless vector control 1+ auto-tuning 1	1/1	0	Disabled	●/●	-	●	●	
<i>RU4</i>	0040	Automatic function setting	0: Disabled 1: Frequency setting by means of voltage 2: Frequency setting by means of current 3: Voltage/current switching from external terminal 4: Frequency setting on operation panel and operation by means of terminals 5: Frequency setting and operation on operation panel	1/1	0	Disabled	●/●	●/●	●	●	
<i>END</i>	0003	Command mode selection	0: Terminal input enabled 1: Operation panel input enabled (including LED/LCD option input) 2: Operation panel RS485 (2-wire) communication input 3: Internal RS485 (4-wire) communication input 4: Communication option input	1/1	0	Disabled	●/●	●/●	●	●	
<i>FND</i>	0004	Frequency setting mode selection 1	1: V/I (voltage/current input) 2: RR/S4 (potentiometer/voltage input) 3: RX (voltage input) 4: Operation panel input enabled (including LED/LCD option input) 5: Operation panel RS485 (2-wire) communication input 6: Internal RS485 (4-wire) communication input 7: Communication option input 8: Optional AI1 (differential current input) 9: Optional AI2 (voltage/current input) 10: UP/DOWN frequency 11: RP pulse input 12: High-speed pulse input 13: Binary/BCD input	1/1	2	Disabled	●/●	-	●	●	
<i>Pt</i>	0015	V/f control mode selection	0: Constant torque characteristics 1: Voltage decrease curve 2: Automatic torque boost 3: Sensorless vector control 1 (speed) 4: Sensorless vector control 2 (speed/torque) 5: V/f 5-point setting 6: PM control 7: PG feedback vector control 1 (speed) 8: PG feedback vector control 2 (speed/torque)	1/1	0	Disabled	-/- -/- ●/- ●/- ●/- -/- -/- -/- -/- -/-	-/- -/- -/- -/- ●/- -/- -/- -/- -/- -/-	- - - - - ● - - - -	● ● - - - ● - - - -	
<i>ub</i>	0016	Manual torque boost 1	0.0~30.0%	0.1/0.1	*1	Enabled	-	-	●	●	
<i>uL</i>	0014	Base frequency 1	25.0~500.0Hz	0.1/0.01	*3	Disabled	●/●	●/●	●	●	
<i>ulu</i>	0409	Base frequency voltage 1	200V class:50~330V 400V class:50~660V	1/0.1	*1	Disabled	●/●	●/●	●	●	
<i>FH</i>	0011	Maximum frequency	30.0~500.0Hz	0.1/0.01	80.0	Disabled	●/●	●/●	●	●	
<i>uL</i>	0012	Upper limit frequency	0.0~FH Hz	0.1/0.01	*3	Enabled	●/●	-	●	●	
<i>lL</i>	0013	Lower limit frequency	0.0~uL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>RLt</i>	0009	Acceleration time 1	0.1~6000 sec.	0.1/0.1 *2	*1	Enabled	●/●	-	●	●	
<i>dEt</i>	0010	Deceleration time 1	0.1~6000 sec.	0.1/0.1 *2	*1	Enabled	●/●	-	●	●	
<i>RUf2</i>	0213	RR/S4 input point 2 frequency	0.0~FH Hz	0.1/0.01	*3	Enabled	●/●	-	●	●	
<i>RIf2</i>	0204	V/I input point 2 frequency	0.0~FH Hz	0.1/0.01	*3	Enabled	●/●	-	●	●	
<i>sr1</i>	0018	Preset speed operation frequency 1	lL~uL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>sr2</i>	0019	Preset speed operation frequency 2	lL~uL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>sr3</i>	0020	Preset speed operation frequency 3	lL~uL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>sr4</i>	0021	Preset speed operation frequency 4	lL~uL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>sr5</i>	0022	Preset speed operation frequency 5	lL~uL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>sr6</i>	0023	Preset speed operation frequency 6	lL~uL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>sr7</i>	0024	Preset speed operation frequency 7	lL~uL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>Fr</i>	0008	Forward run/reverse run selection (operation panel operation)	0: Forward run 1: Forward run 2: Forward run (Forward/reverse switchable on operation panel) 3: Reverse run (Forward/reverse switchable on operation panel)	1/1	0	Enabled	●/●	●/●	●	●	

*1: Default values vary depending on the capacity.
 *2: Changing the parameter *RLt* enables to set to 0.01 sec. (adjustment range: 0.01~600.0 sec.).
 *3: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

1. Basic parameter [2/2]

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	User setting	
							Speed control	Torque control				
HR	0600	Motor overload protection level 1	10~100%	1/1	100	Enabled	●/●	●/●	●	●		
OLN	0017	Motor overload protection characteristic selection	Setting	Motor type	Overload protection	OL stall	●/●	●/●	5.14	●	●	
			0	Standard Motor	○ (protect)	× (not stall)						
			1		○ (protect)	○ (stall)						
			2		× (not protect)	× (not stall)						
			3	VF Motor	× (not protect)	○ (stall)						
			4		○ (protect)	× (not stall)						
			5		○ (protect)	○ (stall)						
			6		× (not protect)	× (not stall)						
7	× (not protect)	○ (stall)										
DISPU	0701	Current/voltage unit selection	0%, 1:A (ampere)/V (volt)	1/1	0	Enabled	●/●	●/●	●	●		
FMSL	0005	FM terminal meter selection	0~64 *1	1/1	0	Enabled	●/●	●/●	●	●		
FN	0006	FM terminal meter adjustment	-	1/1	-	Enabled	●/●	●/●	●	●		
AMS L	0670	AM terminal meter selection	0~64 *1	1/1	2	Enabled	●/●	●/●	●	●		
AN	0671	AM terminal meter adjustment	-	1/1	-	Enabled	●/●	●/●	●	●		
CF	0300	PWM carrier frequency	1.0~16.0kHz (1.0~8.0kHz) *2	0.1/0.1	*3	Enabled	●/●	●/●	●	●		
UUS	0301	Auto-restart control selection	0:Deselect 1:At auto-restart 2:ST ON/OFF switching 3:1+2 4:Starting	1/1	0	Disabled	●/●	●/●	●	●		
UUC	0302	Regenerative power ride-through control	0:Deselect 1:Power ride-through 2:Deceleration stop during power failure 3:Synchronized deceleration/acceleration (synchronized acceleration/deceleration signal) 4:Synchronized deceleration/acceleration (synchronized acceleration/deceleration signal+power failure)	1/1	0	Disabled	●/●	-/-	●	●		
Pb	0304	Dynamic braking selection	0:Deselect 1:Select (braking resistance overload detect) 2:Select (braking resistance overload not detect)	1/1	0	Disabled	●/●	●/●	●	●		
Pbr	0308	Dynamic braking resistance	0.5~1000Ω	0.1/0.1	*3	Disabled	●/●	●/●	●	●		
PbCP	0309	Allowable continuous braking resistance	0.01~600.0kW	0.01/0.01	*3	Disabled	●/●	●/●	●	●		
UYF	0007	Factory default setting	0:- 1:50 Hz default setting 2:60 Hz default setting 3:Factory default setting 4:Trip cleared 5:Cumulative operation time cleared 6:Type information initialized 7>User-defined parameter recorded 8:Item 7 above reset 9:Cumulative fan operation time cleared 10:Acceleration/deceleration time setting 0.01 sec.~600.0 sec. 11:Acceleration/deceleration time setting 0.1 sec.~6000sec.	1/1	0	Disabled	●/●	●/●	●	●		
PSEL	0050	Parameter display selection	0:Standard setting mode at time of activation of motor 1:Quick mode at time of activation of motor 2:Quick mode only	1/1	0	Enabled	●/●	●/●	●	●		
F1-- F9--	-	Extended parameters	Set detailed parameters shown in the following pages.	-	-	-	●/●	●/●	●	●		
URU	-	Automatic edit function	-	-	-	-	●/●	●/●	●	●		

*1: → For the adjustment range, see the instruction manual. *2: For 200V-55/75kW models and 400V-90kW to 400V-280kW models, the carrier frequency is between 1.0 and 8.0kHz inclusive.
*3: Default values vary depending on the capacity.

2. Extended parameters

[1] Frequency signal

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	User setting
							Speed control	Torque control			
F 100	0100	Low-speed signal output frequency	0.0~ $\frac{UL}{L}$ Hz	0.1/0.01	0.0	Enabled	●/●	●/●	●	●	
F 101	0101	Speed reach setting frequency	0.0~ $\frac{UL}{L}$ Hz	0.1/0.01	0.0	Enabled	●/●	●/●	●	●	
F 102	0102	Speed reach detection band	0.0~ $\frac{UL}{L}$ Hz	0.1/0.01	2.5	Enabled	●/●	●/●	●	●	

[2] Input signal selection

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f	User setting
							Speed control	Torque control			
F 105	0105	Priority when forward/reverse run commands are entered simultaneously	0:Reverse run, 1:Stop	1/1	1	Disabled	●/●	●/●	●	●	
F 106	0106	Input terminal priority selection	0:Deselect, 1:Select	1/1	0	Disabled	●/●	●/●	●	●	
F 107	0107	16-bit binary/BCD input selection	0:Deselect 1:12-bit binary input 2:16-bit binary input 3:3-digit BCD input 4:4-digit BCD input 5:12-bit binary input inverse 6:16-bit binary input inverse 7:3-digit BCD input inverse 8:4-digit BCD input inverse	1/1	0	Disabled	●/●	●/●	●	●	
F 108	0108	Analog VI/VI voltage/current switching	0:Voltage input 1:Current input	1/1	0	Disabled	●/●	-/-	●	●	
F 109	0109	Analog AI2 (optional circuit board) voltage/current switching	0:Voltage input 1:Current input	1/1	0	Disabled	●/●	●/●	●	●	

[3] Terminal function selection

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	User setting
							Speed control	Torque control			
F 110	0110	Always ON function selection 1	0~135 *1	1/1	*3	Disabled	●/●	●/●	●	●	
F 111	0111	Input terminal function selection 1 (F)	0~135 *1	1/1	2	Disabled	●/●	●/●	●	●	
F 112	0112	Input terminal function selection 2 (R)	0~135 *1	1/1	4	Disabled	●/●	●/●	●	●	
F 113	0113	Input terminal function selection 3 (ST)	0~135 *1	1/1	6	Disabled	●/●	●/●	●	●	
F 114	0114	Input terminal function selection 4 (RES)	0~135 *1	1/1	8	Disabled	●/●	●/●	●	●	
F 115	0115	Input terminal function selection 5 (S1)	0~135 *1	1/1	10	Disabled	●/●	●/●	●	●	
F 116	0116	Input terminal function selection 6 (S2)	0~135 *1	1/1	12	Disabled	●/●	●/●	●	●	
F 117	0117	Input terminal function selection 7 (S3)	0~135 *1	1/1	14	Disabled	●/●	●/●	●	●	
F 118	0118	Input terminal function selection 8 (RR/S4)	0~135 *1	1/1	72	Disabled	●/●	●/●	●	●	
F 119	0119	Input terminal function selection 9 (L11)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 120	0120	Input terminal function selection 10 (LI2)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 121	0121	Input terminal selection 11 (LI3)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 122	0122	Input terminal selection 12 (LI4)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 123	0123	Input terminal selection 13 (LI5)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 124	0124	Input terminal selection 14 (LI6)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 125	0125	Input terminal selection 15 (LI7)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 126	0126	Input terminal selection 16 (LI8)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 127	0127	Always ON function selection 2	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 128	0128	Always ON function selection 3	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 130	0130	Output terminal function selection 1 (OUT1)	0~255 *2	1/1	4	Disabled	●/●	●/●	●	●	
F 131	0131	Output terminal function selection 2 (OUT2)	0~255 *2	1/1	6	Disabled	●/●	●/●	●	●	
F 132	0132	Output terminal function selection 3 (FL)	0~255 *2	1/1	10	Disabled	●/●	●/●	●	●	
F 133	0133	Output terminal function selection 4 (OUT3)	0~255 *2	1/1	254	Disabled	●/●	●/●	●	●	
F 134	0134	Output terminal function selection 5 (OUT4)	0~255 *2	1/1	254	Disabled	●/●	●/●	●	●	
F 135	0135	Output terminal function selection 6 (R1)	0~255 *2	1/1	254	Disabled	●/●	●/●	●	●	
F 136	0136	Output terminal function selection 7 (OUT5)	0~255 *2	1/1	254	Disabled	●/●	●/●	●	●	
F 137	0137	Output terminal function selection 8 (OUT6)	0~255 *2	1/1	254	Disabled	●/●	●/●	●	●	
F 138	0138	Output terminal function selection 9 (R2)	0~255 *2	1/1	254	Disabled	●/●	●/●	●	●	

*1: ⇒ For the adjustment range, see the instruction manual. *2: ⇒ For the adjustment range, see the instruction manual. *3: Inverter with a model number ending with -WN: 0 -WP: 6

[4] Terminal response time setup

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	User setting
							Speed control	Torque control			
F 140	0140	Input terminal 1 response time selection (F)	2~200ms	1/1	8	Disabled	●/●	●/●	●	●	
F 141	0141	Input terminal 2 response time selection (R)	2~200ms	1/1	8	Disabled	●/●	●/●	●	●	
F 142	0142	Input terminal 3 response time selection (ST)	2~200ms	1/1	8	Disabled	●/●	●/●	●	●	
F 143	0143	Input terminal 4 response time selection (RES)	2~200ms	1/1	8	Disabled	●/●	●/●	●	●	
F 144	0144	Input terminal 5-12 response time selection	2~200ms	1/1	8	Disabled	●/●	●/●	●	●	
F 145	0145	Input terminal 13-20 response time selection	5~200ms	1/1	8	Disabled	●/●	●/●	●	●	
F 154	0164	Input terminal selection 17(B12)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 155	0165	Input terminal selection 18(B13)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 156	0166	Input terminal selection 19(B14)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 157	0167	Input terminal selection 20(B15)	0~135 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 158	0168	Output terminal function selection 10 (R3)	0~255 *2	1/1	254	Disabled	●/●	●/●	●	●	
F 159	0169	Output terminal function selection 11 (R4)	0~255 *2	1/1	254	Disabled	●/●	●/●	●	●	
F 170	0170	Base frequency 2	25.0~FH Hz	0.1/0.01	*4	Disabled	-	-	●	●	
F 171	0171	Base frequency voltage 2	50~330V/660V	1/0.1	*3	Disabled	-	-	●	●	
F 172	0172	Manual torque boost 2	0.0~30.0%	0.1/0.1	*3	Enabled	-	-	●	●	
F 173	0173	Motor overload protection level 2	10~100%	1/1	100	Enabled	-	-	●	●	
F 174	0174	Base frequency 3	25.0~FH Hz	0.1/0.01	*4	Disabled	-	-	●	●	
F 175	0175	Base frequency voltage 3	50~330V/660V	1/0.1	*3	Disabled	-	-	●	●	
F 176	0176	Manual torque boost 3	0.0~30.0%	0.1/0.1	*3	Enabled	-	-	●	●	
F 177	0177	Motor overload protection level 3	10~100%	1/1	100	Enabled	-	-	●	●	
F 178	0178	Base frequency 4	25.0~FH Hz	0.1/0.01	*4	Disabled	-	-	●	●	
F 179	0179	Base frequency voltage 4	50~330V/660V	1/0.1	*3	Disabled	-	-	●	●	
F 180	0180	Manual torque boost 4	0.0~30.0%	0.1/0.1	*3	Enabled	-	-	●	●	
F 181	0181	Motor overload protection level 4	10~100%	1/1	100	Enabled	-	-	●	●	

*1: ⇒ For the adjustment range, see the the instruction manual.

*2: ⇒ For the adjustment range, see the instruction manual.

*3: Default values vary depending on the capacity.

*4: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[5] V/f 5-point setting

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	User setting
							Speed control	Torque control			
F 190	0190	V/f 5-point setting VF1 frequency	0.0~FH Hz	0.1/0.01	0.0	Disabled	-	-	●	●	
F 191	0191	V/f 5-point setting VF1 voltage	0.0~100.0%	0.1/0.01	0.0	Disabled	-	-	●	●	
F 192	0192	V/f 5-point setting VF2 frequency	0.0~FH Hz	0.1/0.01	0.0	Disabled	-	-	●	●	
F 193	0193	V/f 5-point setting VF2 voltage	0.0~100.0%	0.1/0.01	0.0	Disabled	-	-	●	●	
F 194	0194	V/f 5-point setting VF3 frequency	0.0~FH Hz	0.1/0.01	0.0	Disabled	-	-	●	●	
F 195	0195	V/f 5-point setting VF3 voltage	0.0~100.0%	0.1/0.01	0.0	Disabled	-	-	●	●	
F 196	0196	V/f 5-point setting VF4 frequency	0.0~FH Hz	0.1/0.01	0.0	Disabled	-	-	●	●	
F 197	0197	V/f 5-point setting VF4 voltage	0.0~100.0%	0.1/0.01	0.0	Disabled	-	-	●	●	
F 198	0198	V/f 5-point setting VF5 frequency	0.0~FH Hz	0.1/0.01	0.0	Disabled	-	-	●	●	
F 199	0199	V/f 5-point setting VF5 voltage	0.0~100.0%	0.1/0.01	0.0	Disabled	-	-	●	●	

[6] Speed/torque reference gain/bias setup [1/2]

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	User setting
							Speed control	Torque control			
F 200	0200	Frequency priority selection	0:FRQd/F207 terminal switching (input terminal function selection 104, 105) 1:FRQd/F207 frequency switching (switching with F208)	1/1	0	Enabled	●/●	-	●	●	
F 201	0201	VI/II input point 1 setting	0~100%	1/1	0	Enabled	●/●	●/●	●	●	
F 202	0202	VI/II input point 1 frequency	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F 203	0203	VI/II input point 2 setting	0~100%	1/1	100	Enabled	●/●	●/●	●	●	
F 204	0204	VI/II input point 2 frequency	0.0~FH Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	
F 205	0205	VI/II input point 1 rate	0~250% (for torque control etc.)	1/0.01	0	Enabled	●/●	●/●	-	-	
F 206	0206	VI/II input point 2 rate	0~250% (for torque control etc.)	1/0.01	100	Enabled	●/●	●/●	-	-	
F 207	0207	Frequency setting mode selection 2	Same as FRQd (1~13)	1/1	1	Disabled	●/●	-	●	●	
F 208	0208	Speed command priority switching frequency	0.1~FH Hz	0.1/0.01	0.1	Enabled	●/●	-	●	●	
F 209	0209	Analog input filter	0:No filter 1:Filter approx. 10ms 2:Filter approx. 15ms 3:Filter approx. 30ms 4:Filter approx. 60ms	1/1	0	Enabled	●/●	●/●	●	●	
F 210	0210	RR/S4 input point 1 setting	0~100%	1/1	0	Enabled	●/●	●/●	●	●	
F 211	0211	RR/S4 input point 1 frequency	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	

This parameter moves to a fundamental parameter.

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[6] Speed/torque reference gain/bias setup [2/2]

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	User setting
							Speed control	Torque control			
F212	0212	RR/S4 input point 2 setting	0~100%	1/1	100	Enabled	●/●	●/●	●	●	
F213	0213	RR/S4 input point 2 frequency	0.0~FH Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	
F214	0214	RR/S4 input point 1 rate	0~250% (for torque control etc.)	1/0.01	0	Enabled	●/●	●/●	-	-	
F215	0215	RR/S4 input point 2 rate	0~250% (for torque control etc.)	1/0.01	100	Enabled	●/●	●/●	-	-	
F216	0216	RX input point 1 setting	-100~100%	1/1	0	Enabled	●/●	●/●	●	●	
F217	0217	RX input point 1 frequency	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F218	0218	RX input point 2 setting	-100~100%	1/1	100	Enabled	●/●	●/●	●	●	
F219	0219	RX input point 2 frequency	0.0~FH Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	
F220	0220	RX input point 1 rate	-250~250% (for torque control etc.)	1/0.01	0	Enabled	●/●	●/●	-	-	
F221	0221	RX input point 2 rate	-250~250% (for torque control etc.)	1/0.01	100	Enabled	●/●	●/●	-	-	
F222	0222	AI1 input point 1 setting	-100~100%	1/1	0	Enabled	●/●	●/●	●	●	
F223	0223	AI1 input point 1 frequency	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F224	0224	AI1 input point 2 setting	-100~100%	1/1	100	Enabled	●/●	●/●	●	●	
F225	0225	AI1 input point 2 frequency	0.0~FH Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	
F226	0226	AI1 input point 1 rate	-250~250% (for torque control etc.)	1/0.01	0	Enabled	●/●	●/●	●	●	
F227	0227	AI1 input point 2 rate	-250~250% (for torque control etc.)	1/0.01	100	Enabled	●/●	●/●	●	●	
F228	0228	AI2 input point 1 setting	0~100%	1/1	0	Enabled	●/●	●/●	●	●	
F229	0229	AI2 input point 1 frequency	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F230	0230	AI2 input point 2 setting	0~100%	1/1	100	Enabled	●/●	●/●	●	●	
F231	0231	AI2 input point 2 frequency	0.0~FH Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	
F234	0234	RP/high speed pulse input point 1 setting	0~100%	1/1	0	Enabled	●/●	-	●	●	
F235	0235	RP/high speed pulse input point 1 frequency	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F236	0236	RP/high speed pulse input point 2 setting	0~100%	1/1	100	Enabled	●/●	-	●	●	
F237	0237	RP/high speed pulse input point 2 frequency	0.0~FH Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[7] Operation frequency

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	User setting
							Speed control	Torque control			
F240	0240	Starting frequency setting	0.0~10.0Hz	0.1/0.01	0.1	Enabled	●/●	-	●	●	
F241	0241	Operation start frequency	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F242	0242	Operation start frequency hysteresis	0.0~30.0Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F243	0243	Stop frequency setting	0.0~30.0Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F244	0244	Frequency command dead band	0.0~5.0Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	

[8] DC braking

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	User setting
							Speed control	Torque control			
F250	0250	DC braking start frequency	0.0~120.0Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F251	0251	DC braking current	0~100%	1/1	50	Enabled	●/●	-	●	●	
F252	0252	DC braking time	0.0~20.0 sec.	0.1/0.1	1.0	Enabled	●/●	-	●	●	
F253	0253	Forward/reverse DC braking priority control	0:OFF, 1:ON	1/1	0	Enabled	●/●	-	●	●	
F254	0254	Motor shaft fixing control	0:Disabled, 1:Enabled	1/1	0	Enabled	●/●	-	●	●	
F255	0255	0Hz command output selection	0:Default (DC braking), 1:0Hz command	1/1	0	Enabled	-/●	-	●	●	
F256	0256	Time limit for lower-limit frequency operation	0.0:Disabled, 0.1~600.0 sec.	0.1/0.1	0.0	Enabled	●/●	●/●	●	●	

[9] Jogging operation

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	User setting
							Speed control	Torque control			
F260	0260	Jog run frequency	F240~20.0Hz	0.1/0.01	5.0	Enabled	●/●	-	●	●	
F261	0261	Jog run stop pattern	0:Deceleration stop, 1:Coast stop, 2:DC braking stop	1/1	0	Disabled	●/●	-	●	●	
F262	0262	Operation panel jog run operation mode	0:OFF, 1:Operation panel jog run mode enabled	1/1	0	Enabled	●/●	-	●	●	
F264	0264	Input from external contacts - UP response time	0.0~10.0 sec.	0.1/0.1	0.1	Enabled	●/●	-	●	●	
F265	0265	Input from external contacts - UP frequency step	0.0~FH Hz	0.1/0.01	0.1	Enabled	●/●	-	●	●	
F266	0266	Input from external contacts - DOWN response time	0.0~10.0 sec.	0.1/0.1	0.1	Enabled	●/●	-	●	●	
F267	0267	Input from external contacts - DOWN frequency step	0.0~FH Hz	0.1/0.01	0.1	Enabled	●/●	-	●	●	
F268	0268	Initial UP/DOWN frequency	L1~UL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F269	0269	Initial up/down frequency	0:Not rewrite, 1:Rewrite F268 when power is turned off	1/1	1	Enabled	●/●	-	●	●	

[10] Jump frequency

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	User setting
							Speed control	Torque control			
F270	0270	Jump frequency 1	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F271	0271	Jump step 1	0.0~30.0Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F272	0272	Jump frequency 2	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F273	0273	Jump step 2	0.0~30.0Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F274	0274	Jump frequency 3	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F275	0275	Jump step 3	0.0~30.0Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	

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

[11] Preset speed operation frequency (8~15)

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f	User setting
							Speed control	Torque control			
F287	0287	Preset speed operation frequency 8	LL~UL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F288	0288	Preset speed operation frequency 9	LL~UL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F289	0289	Preset speed operation frequency 10	LL~UL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F290	0290	Preset speed operation frequency 11	LL~UL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F291	0291	Preset speed operation frequency 12	LL~UL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F292	0292	Preset speed operation frequency 13	LL~UL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F293	0293	Preset speed operation frequency 14	LL~UL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F294	0294	Preset speed operation frequency 15 (Forced operation frequency)	LL~UL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	

[12] Tripless intensification setup [1/2]

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	User setting
							Speed control	Torque control			
LF	0300	PWM carrier frequency	1.0~16.0kHz (1.0~8.0kHz) *1	0.1/0.1	*2	Enabled	●/●	●/●	●	●	
Uu5	0301	Auto-restart control selection	0:Deselect, 1:At auto-restart 2:ST ON/OFF switching, 3:1+2, 4:Starting	1/1	0	Disabled	●/●	●/●	●	●	
UuL	0302	Regenerative power ride-through control	0:Deselect 1:Power ride-through 2:Deceleration stop during power failure 3:Synchronized deceleration/acceleration (synchronized acceleration/deceleration signal) 4:Synchronized deceleration/acceleration (synchronized acceleration/deceleration signal+power failure)	1/1	0	Disabled	●/●	-/-	●	●	

This parameter moves to a fundamental parameter. *1: For 200V-55/75kW models and 400V-90kW to 400V-280kW models, the carrier frequency is between 1.0 and 8.0kHz inclusive.
*2: Default values vary depending on the capacity.

[12] Tripless intensification setup [2/2]

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	User setting
							Speed control	Torque control			
F303	0303	Retry selection	0:Deselect, 1-10 times	1/1	0	Enabled	●/●	●/●	●	●	
Pb	0304	Dynamic braking selection	0:Deselect 1>Select (braking resistance overload detect) 2>Select (braking resistance overload not detect)	1/1	0	Disabled	●/●	●/●	●	●	
F305	0305	Overvoltage limit operation	0>Select 1:Deselect 2>Select (quick deceleration) 3>Select (dynamic quick deceleration)	1/1	2	Disabled	●/●	●/●	●	●	
F307	0307	Base frequency voltage selection (correction of supply voltage)	0:Supply voltage uncorrected (output voltage unlimited) 1:Supply voltage corrected (output voltage unlimited) 2:Supply voltage uncorrected (output voltage limited) 3:Supply voltage corrected (output voltage limited)	1/1	0	Disabled	Parameters are changeable, but fixed at 1 internally		●		
Pbr	0308	Dynamic braking resistance	0.5~1000Ω	0.1/0.1	*1	Disabled	●/●	●/●	●	●	
PbCP	0309	Allowable continuous braking resistance	0.01~600.0kW	0.01/0.01	*1	Disabled	●/●	●/●	●	●	
F310	0310	Non-stop control time/deceleration time during power failure	0.1~320.0 sec.	0.1/0.1	2.0	Enabled *3/ Disabled	●/●	-/-	●	●	
F311	0311	Reverse-run prohibition selection	0:Permit all 1:Prohibit reverse run 2:Prohibit forward run	1/1	0	Disabled	●/●	●/●	●	●	
F312	0312	Random mode	0:Deselect, 1>Select	1/1	0	Disabled	●/●	●/●	●	●	
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	1/1	1	Disabled	●/●	●/●	●	●	
F317	0317	Synchronized deceleration time (time elapsed between start of deceleration to stop)	0.1~6000 sec.	0.1/0.1 *2	2.0	Enabled	●/●	-/-	●	●	
F318	0318	Synchronized acceleration time (time elapsed between start of acceleration to achievement of specified speed)	0.1~6000 sec.	0.1/0.1 *2	2.0	Enabled	●/●	-/-	●	●	

This parameter moves to a fundamental parameter. *1: Default values vary depending on the capacity. ⇒ See the table of K-46.
*2: Changing the parameter UuP enables to set to 0.01 sec. (adjustment range: 0.01~600.0 sec.).
*3: Although the setting can be written into memory if UuL is set to 1 (power ride-through control), it cannot be written if UuL is set to 2 (deceleration stop during a power failure).

[13] Drooping control

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f	User setting
							Speed control	Torque control			
F320	0320	Drooping gain	0.0~100.0% (Enabled if P _L =3, 4, 7 or 8)	0.1/0.1	0.0	Enabled	●/●	-	-	-	
F321	0321	Speed at drooping gain 0%	0.0~320.0Hz (Enabled if P _L =3, 4, 7 or 8)	0.1/0.01	0.0	Enabled	●/●	-	-	-	
F322	0322	Speed at drooping gain F320	0.0~320.0Hz (Enabled if P _L =3, 4, 7 or 8)	0.1/0.01	0.0	Enabled	●/●	-	-	-	
F323	0323	Drooping insensitive torque	0~100% (Enabled if P _L =3, 4, 7 or 8)	1/1	10	Enabled	●/●	-	-	-	

[14] Functions for lift

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	User setting
							Speed control	Torque control			
F 324	0324	Drifting output filter	0.1~200.0 rad/s (Enabled if P _L =3, 4, 7 or 8)	0.1/0.1	100.0	Enabled	●/●	-	-	-	-
F 328	0328	Light-load high-speed operation selection	0:Deselect 1:High-speed operation speed set automatically (Power running at F command: Increase) 2:High-speed operation speed set automatically (Power running at R command: Increase) 3:High-speed operation speed set with F 330 (Power running at F command: Increase) 4:High-speed operation speed set with F 330 (Power running at R command: Increase)	1/1	0	Enabled	●/●	-	●	●	-
F 329	0329	Light-load high-speed learning function	0:No learning, 1:Forward run learning 2:Reverse run learning	1/1	0	Disabled	●/●	-	-	-	-
F 330	0330	Automatic light-load high-speed operation frequency	30.0~U _L Hz	0.1/0.01	*1	Disabled	●/●	-	●	●	-
F 331	0331	Light-load high-speed operation switching lower limit frequency	30.0~U _L Hz	0.1/0.01	40.0	Enabled	●/●	-	●	●	-
F 332	0332	Light-load high-speed operation load waiting time	0.0~10.0 sec.	0.1/0.1	0.5	Enabled	●/●	-	●	●	-
F 333	0333	Light-load high-speed operation load detection time	0.0~10.0 sec.	0.1/0.1	1.0	Enabled	●/●	-	●	●	-
F 334	0334	Light-load high-speed operation heavy load detection time	0.0~10.0 sec.	0.1/0.1	0.5	Enabled	●/●	-	●	●	-
F 335	0335	Switching load torque during power running	-250~250%	1/0.01	50	Enabled	●/●	-	●	●	-
F 336	0336	Heavy-load torque during power running	-250~250%	1/0.01	100	Enabled	●/●	-	●	●	-
F 337	0337	Heavy-load torque during constant power running	-250~250%	1/0.01	50	Enabled	●/●	-	●	●	-
F 338	0338	Switching load torque during regenerative braking	-250~250%	1/0.01	50	Enabled	●/●	-	●	●	-
F 341	0341	Braking mode selection	0:Deselect, 1:Forward winding up 2:Reverse winding up 3:Horizontal operation (counter weight)	1/1	0	Enabled	●/●	-	-	-	-
F 342	0342	Load portion torque input selection	0:Disabled, 1~8 (same as F 420)	1/1	0	Enabled	●/●	-	-	-	-
F 343	0343	Hoisting torque bias input (valid only when F 342=4)	-250~250%	1/0.01	100	Enabled	●/●	-	-	-	-
F 344	0344	Lowering torque bias multiplier	0~100%	1/0.01	100	Enabled	●/●	●/●	●	●	-
F 345	0345	Brake release time	0.00~2.50 sec.	0.01/0.01	0.05	Enabled	●/●	-	-	-	-
F 346	0346	Creeping frequency	F 240~20.0 Hz	0.1/0.01	3.0	Enabled	●/●	-	-	-	-
F 347	0347	Creeping time	0.0~2.5 sec.	0.01/0.01	0.10	Disabled	●/●	-	-	-	-
F 348	0348	Braking time learning function	0:Deselect, 1: Learning (0 after adjustment)	1/1	0	Enabled	●/●	-	-	-	-
F 349	0349	Acceleration/deceleration suspend function	0:Deselect, 1:Parameter setting, 2:Terminal input	1/1	0	Disabled	●/●	●/●	●	●	-
F 350	0350	Acceleration suspend frequency	0.0~F _H Hz	0.1/0.01	0.0	Enabled	●/●	●/●	●	●	-
F 351	0351	Acceleration suspend time	0.0~10.0 sec.	0.1/0.1	0.0	Enabled	●/●	●/●	●	●	-
F 352	0352	Deceleration suspend frequency	0.0~F _H Hz	0.1/0.01	0.0	Enabled	●/●	●/●	●	●	-
F 353	0353	Deceleration suspend time	0.0~10.0 sec.	0.1/0.1	0.0	Enabled	●/●	-	●	●	-

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

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

[15] Commercial/inverter switching function

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f	User setting
							Speed control	Torque control			
F 354	0354	Commercial power/inverter switching output selection	0:OFF 1:Automatic switching in the event of a trip 2:Commercial power switching frequency setting 3:Commercial power switching frequency setting + automatic switching in the event of a trip	1/1	0	Disabled	●/●	●/●	●	●	-
F 355	0355	Commercial power/inverter switching frequency	0~U _L Hz	0.1/0.01	*2	Enabled	●/●	●/●	●	●	-
F 356	0356	Inverter-side switching waiting time	0.10~10.00 sec.	0.01/0.01	*1	Enabled	●/●	●/●	●	●	-
F 357	0357	Commercial power-side switching waiting time	0.40~10.00 sec.	0.01/0.01	0.62	Enabled	●/●	●/●	●	●	-
F 358	0358	Commercial power switching frequency holding time	0.10~10.00 sec.	0.01/0.01	2.00	Enabled	●/●	●/●	●	●	-

*1: Default values vary depending on the capacity.

*2: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

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

[16] PID control

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f	User setting
							Speed control	Torque control			
F 359	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	1/1	0	Disabled	●/●	-	●	●	-
F 360	0360	PID control feedback control signal selection	0:Deviation input (no feedback input) 1:V/I 2:RR/S4 3:RX 4:Optional AI1 5:Optional AI2 6: PG feedback option	1/1	0	Disabled	●/●	-	●	●	-
F 361	0361	Delay filter	0.0~25.0	1/1	0.1	Enabled	●/●	-	●	●	-
F 362	0362	Proportional (P) gain	0.01~100.0	0.01/0.01	0.10	Enabled	●/●	-	●	●	-
F 363	0363	Integral (I) gain	0.01~100.0	0.01/0.01	0.10	Enabled	●/●	-	●	●	-
F 364	0364	PID deviation upper limit	L _L ~U _L Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	-
F 365	0365	PID deviation lower limit	L _L ~U _L Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	-
F 366	0366	Differential (D) gain	0.00~2.55	0.01/0.01	0.00	Enabled	●/●	-	●	●	-

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[17] Speed feedback/positioning control

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f	User setting
							Speed control	Torque control			
F367	0367	Process upper limit	L~UL Hz	0.1/0.01	*1	Enabled	-/●	-/●	-	-	-
F368	0368	Process lower limit	L~UL Hz	0.1/0.01	L	Enabled	-/●	-/●	-	-	-
F369	0369	PID control waiting time	0~2400 sec.	1/1	0	Enabled	-/●	-/●	-	-	-
F370	0370	PID output upper limit	L~UL Hz	0.1/0.01	*1	Enabled	-	-	-	-	-
F371	0371	PID output lower limit	L~UL Hz	0.1/0.01	L	Enabled	-	-	-	-	-
F372	0372	Process increasing rate (speed type PID control)	0.1~600.0	0.1/0.1	10.0	Enabled	-	-	-	-	-
F373	0373	Process decreasing rate (speed type PID control)	0.1~600.0	0.1/0.1	10.0	Enabled	-	-	-	-	-
F375	0375	Number of PG input pulses	12~9999	1/1	500	Disabled	●/●	-/●	-	-	-
F376	0376	Selection of number of PG input phases	1:Single-phase input 2:Two-phase input	1/1	2	Disabled	●/●	-	-	-	-
F377	0377	PG disconnection detection	0:Deselect 1:Select (with filter) 2:Select (Detection of momentary power failure)	1/1	0	Disabled	●/●	-	-	-	-
F378	0378	Number of RP terminal input pulses	12~9999	1/1	500	Disabled	●/●	●/●	-	-	-
F381	0381	Simple positioning completion range	1~4000	1/1	100	Enabled	●/●	-	●	●	-

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[18] Motor constant

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 Constant	User setting
							Speed control	Torque control			
F400	0400	Auto-tuning 1	0:No auto-tuning 1:Initialize motor constant (0 after execution) 2:Continue operation continued after auto-tuning (0 after execution) 3:Auto-tuning by input terminal signal 4:Motor constant auto calculation (0 after execution)	1/1	0	Disabled	●/●	●/●	-	-	-
F401	0401	Slip frequency gain	0~150%	1/1	70	Enabled	●/●	-	-	-	-
F402	0402	Auto-tuning 2	0:No tuning 1:Self-cooled motor tuning 2:Forced air-cooled motor tuning	1/1	0	Disabled	●/●	●/●	-	-	-
F405	0405	Motor rated capacity (motor name plate)	0.10~500.0kW	0.01/0.01	*1	Enabled	●/●	●/●	-	-	-
F406	0406	Motor rated current (motor name plate)	0.1~2000A	0.1/0.1	*1	Disabled	●/●	●/●	-	-	-
F407	0407	Motor rated revolutions (motor name plate)	100~60000min-1	1/1	*1	Disabled	●/●	●/●	-	-	-
F410	0410	Motor constant 1 (torque boost)	0.0~30.0%	0.1/0.1	*1	Enabled	●/●	●/●	-	-	-
F411	0411	Motor constant 2 (no load current)	10~90%	1/1	*1	Disabled	●/●	●/●	-	-	-
F412	0412	Motor constant 3 (leak inductance)	0~200%	0.1/0.1	*1	Disabled	●/●	●/●	-	-	-
F413	0413	Motor constant 4 (rated slip)	0.1~25.0%	0.1/0.1	*1	Enabled	●/●	●/●	-	-	-
F415	0415	Exciting strengthening coefficient	100~130%	1/1	100	Disabled	●/●	●/●	-	-	-
F416	0416	Stall prevention factor	10~250	1/1	100	Disabled	●/●	●/●	-	-	-

*1: Default values vary depending on the capacity.

[19] Torque control

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 Constant	User setting
							Speed control	Torque control			
F420	0420	Torque command selection	1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:Operation panel input enabled (including LED/LCD option input) 5:Operation panel RS485 (2-wire) communication input 6:Internal RS485 (4-wire) communication input 7:Communications option input enabled 8:A1 (differential current input)	1/1	3	Enabled	-	●/●	-	-	-
F423	0423	Tension torque bias input selection (torque control)	0:Disabled, 1~8 (same as F420)	1/1	0	Enabled	-	●/●	-	-	-
F424	0424	Load sharing gain input selection	0:Disabled, 1~8 (same as F420)	1/1	0	Enabled	-	●/●	-	-	-
F425	0425	Forward speed limit input selection	0:Disabled 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F426 enabled	1/1	0	Enabled	-	●/●	-	-	-
F426	0426	Forward speed limit input level	0.0~UL Hz	0.1/0.01	*1	Enabled	-	●/●	-	-	-
F427	0427	Reverse speed limit input selection	0:Disabled 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F428 enabled	1/1	0	Enabled	-	●/●	-	-	-
F428	0428	Reverse speed limit input level	0.0~UL Hz	0.1/0.01	*1	Enabled	-	●/●	-	-	-
F430	0430	Speed limit (torque = 0) center value reference selection	0:Disabled, 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input), 4:F431 enabled	1/1	0	Enabled	-	●/●	-	-	-
F431	0431	Speed limit (torque = 0) center value	0.0~FH Hz	0.1/0.01	0.0	Enabled	-	●/●	-	-	-
F432	0432	Speed limit (torque = 0) band	0.0~FH Hz	0.1/0.01	0.0	Enabled	-	●/●	-	-	-
F435	0435	Prohibition of rotation in any direction other than the specified one (F or R)	0:Disabled 1:Enabled	1/1	0	Enabled	-	●/●	-	-	-

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

[20] Torque limit

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f Constant	User setting
							Speed control	Torque control			
F 4 4 0	0440	Power running torque limit 1 selection	1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F 4 4 1	1/1	4	Enabled	●/●	●/●	●	●	
F 4 4 1	0441	Power running torque limit 1 level	0.0~249.8%, 250.0%:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	●	
F 4 4 2	0442	Regenerative braking torque limit 1 selection	1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F 4 4 3	1/1	4	Enabled	●/●	●/●	●	●	
F 4 4 3	0443	Regenerative braking torque limit 1 level	0.0~249.9%, 250.0%:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	●	
F 4 4 4	0444	Power running torque limit 2 level	0.0~249.9%, 250.0%:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	●	
F 4 4 5	0445	Regenerative braking torque limit 2 level	0.0~249.9%, 250.0%:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	●	
F 4 4 6	0446	Power running torque limit 3 level	0.0~249.9%, 250.0%:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	●	
F 4 4 7	0447	Regenerative braking torque limit 3 level	0.0~249.9%, 250.0%:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	●	
F 4 4 8	0448	Power running torque limit 4 level	0.0~249.9%, 250.0%:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	●	
F 4 4 9	0449	Regenerative braking torque limit 4 level	0.0~249.9%, 250.0%:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	●	
F 4 5 1	0451	Acceleration/deceleration operation after torque limit	0:In sync with acceleration/deceleration 1:In sync with min. time	1/1	0	Disabled	●/●	-	●	●	
F 4 5 2	0452	Power running stall continuous trip detection time	0.0~1.0 sec.	0.1/0.1	0.0	Enabled	●/●	-	●	●	
F 4 5 3	0453	Regenerative braking stall prevention mode selection	0:Stall during regenerative braking 1:Not stall during regenerative braking	1/1	0	Enabled	●/●	-	●	●	

[21] Adjustment parameters

Title	Communication No.	Function	Adjustment range	Minimum setting unit (Panel/Communication)	Default setting	Write during running	Vector control		PM control	V/f Constant	User setting
							Speed control	Torque control			
F 4 5 8	0458	Current control proportional gain	0.0~100.0	0.1/0.1	0.0	Enabled	●/●	●/●	-	-	
F 4 6 0	0460	Speed loop proportional gain	1~9999	1/1	40	Enabled	●/●	-	-	-	
F 4 6 1	0461	Speed loop stabilization coefficient	1~9999	1/1	100	Enabled	●/●	-	-	-	
F 4 6 2	0462	Moment of inertia of load 1	0~100	1/1	35	Enabled	●/●	-	●	-	
F 4 6 3	0463	Second speed loop proportional gain	1~9999	1/1	40	Enabled	●/●	-	-	-	
F 4 6 4	0464	Second speed loop stabilization coefficient	1~9999	1/1	100	Enabled	●/●	-	●	-	
F 4 6 5	0465	Moment of inertia of load 2	0~100	1/1	35	Enabled	●/●	-	●	-	
F 4 6 6	0466	Speed PI switching frequency	0.0~F Hz	1/1	0.0	Enabled	●/●	-	-	-	
F 4 7 0	0470	VI/II input bias	0~255	1/1	*1	Enabled	●/●	●/●	●	●	
F 4 7 1	0471	VI/II input gain	0~255	1/1	*1	Enabled	●/●	●/●	●	●	
F 4 7 2	0472	RR/S4 input bias	0~255	1/1	*1	Enabled	●/●	●/●	●	●	
F 4 7 3	0473	RR/S4 input gain	0~255	1/1	*1	Enabled	●/●	●/●	●	●	
F 4 7 4	0474	RX input bias	0~255	1/1	*1	Enabled	●/●	●/●	●	●	
F 4 7 5	0475	RX input gain	0~255	1/1	*1	Enabled	●/●	●/●	●	●	
F 4 7 6	0476	Optional AI1 input bias	0~255	1/1	*1	Enabled	●/●	●/●	●	●	
F 4 7 7	0477	Optional AI1 input gain	0~255	1/1	*1	Enabled	●/●	●/●	●	●	
F 4 7 8	0478	Optional AI2 input bias	0~255	1/1	*1	Enabled	●/●	●/●	●	●	
F 4 7 9	0479	Optional AI2 input gain	0~255	1/1	*1	Enabled	●/●	●/●	●	●	
F 4 9 8	0498	PM motor constant 1 (d axis inductance)	0~100%	1/1	40	Disabled	-	-	●	-	
F 4 9 9	0499	PM motor constant 2 (q axis inductance)	0~100%	1/1	40	Disabled	-	-	●	-	

*1: ⇒ Settings vary from unit to unit. Even if $\frac{L}{\sigma}$ is set to 3, no change is made to these values.

[22] Acceleration/deceleration 2

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/fConstant	User setting
							Speed control	Torque control			
F500	0500	Acceleration time 2	0.1~6000 sec.	0.1/0.1 *2	*1	Enabled	●/●	-	●	●	
F501	0501	Deceleration time 2	0.1~6000 sec.	0.1/0.1 *2	*1	Enabled	●/●	-	●	●	
F502	0502	Acceleration/deceleration 1 pattern	0: Straight, 1:S-pattern 1, 2:S-pattern 2	1/1	0	Enabled	●/●	-	●	●	
F503	0503	Acceleration/deceleration 2 pattern	0: Straight, 1:S-pattern 1, 2:S-pattern 2	1/1	0	Enabled	●/●	-	●	●	
F504	0504	Acceleration/deceleration 1, 2, 3, 4 selection	1: Acceleration/deceleration 1 2: Acceleration/deceleration 2 3: Acceleration/deceleration 3 4: Acceleration/deceleration 4	1/1	1	Enabled	●/●	-	●	●	
F505	0505	Acceleration/deceleration switching frequency 1	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F506	0506	Acceleration S-pattern lower limit adjustment	0~50%	1/1	10	Enabled	●/●	-	●	●	
F507	0507	Acceleration S-pattern upper limit adjustment	0~50%	1/1	10	Enabled	●/●	-	●	●	
F508	0508	Deceleration S-pattern lower limit adjustment (accel./decel. time lower limit erase)	0~50%	1/1	10	Enabled	●/●	-	●	●	
F509	0509	Deceleration S-pattern upper limit adjustment	0~50%	1/1	10	Enabled	●/●	-	●	●	
F510	0510	Acceleration time 3	0.1~6000 sec.	0.1/0.1 *2	*1	Enabled	●/●	-	●	●	
F511	0511	Deceleration time 3	0.1~6000 sec.	0.1/0.1 *2	*1	Enabled	●/●	-	●	●	
F512	0512	Acceleration/ deceleration 3 pattern	0: Straight, 1:S-pattern 1, 2:S-pattern 2	1/1	0	Enabled	●/●	-	●	●	
F513	0513	Acceleration/deceleration switching frequency 2	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F514	0514	Acceleration time 4	0.1~6000 sec.	0.1/0.1 *2	*1	Enabled	●/●	-	●	●	
F515	0515	Deceleration time 4	0.1~6000 sec.	0.1/0.1 *2	*1	Enabled	●/●	-	●	●	
F516	0516	Acceleration/ deceleration 4 pattern	0: Straight, 1:S-pattern 1, 2:S-pattern 2	1/1	0	Enabled	●/●	-	●	●	
F517	0517	Acceleration/deceleration switching frequency 3	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	

*1: Default values vary depending on the capacity.

*2: Changing the parameter $\xi 4P$ enables to set to 0.01 sec. (adjustment range: 0.01~600.0 sec.).

[23] Pattern operation [1/2]

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/fConstant	User setting
							Speed control	Torque control			
F520	0520	Pattern operation selection	0:Deselect 1:Select (setting in units of seconds) 2:Select (setting in units of minutes)	1/1	0	Disabled	●/●	-	●	●	
F521	0521	Pattern operation mode	0:Pattern operation reset when system stops operation 1:Pattern operation continued even after system stops operation	1/1	0	Disabled	●/●	-	●	●	
F522	0522	Number of repetitions of pattern group 1	1~254, 255:∞	1/1	1	Disabled	●/●	-	●	●	
F523	0523	Pattern group 1 selection 1	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F524	0524	Pattern group 1 selection 2	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F525	0525	Pattern group 1 selection 3	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F526	0526	Pattern group 1 selection 4	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F527	0527	Pattern group 1 selection 5	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F528	0528	Pattern group 1 selection 6	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F529	0529	Pattern group 1 selection 7	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F530	0530	Pattern group 1 selection 8	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F531	0531	Number of repetitions of pattern group 2	1~254, 255:∞	1/1	1	Disabled	●/●	-	●	●	
F532	0532	Pattern group 2 selection 1	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F533	0533	Pattern group 2 selection 2	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F534	0534	Pattern group 2 selection 3	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F535	0535	Pattern group 2 selection 4	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F536	0536	Pattern group 2 selection 5	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F537	0537	Pattern group 2 selection 6	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F538	0538	Pattern group 2 selection 7	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	
F539	0539	Pattern group 2 selection 8	0:Skip, 1~15	1/1	0	Disabled	●/●	-	●	●	

[23] Pattern operation [2/2]

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 Constant	User setting
							Speed control	Torque control			
F540	0540	Speed 1 operation time	0.1~6000 (The unit depends on the setting of F520.) 6000:Infinite (depends on the stop trigger entered)	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F541	0541	Speed 2 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F542	0542	Speed 3 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F543	0543	Speed 4 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F544	0544	Speed 5 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F545	0545	Speed 6 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F546	0546	Speed 7 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F547	0547	Speed 8 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F548	0548	Speed 9 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F549	0549	Speed 10 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F550	0550	Speed 11 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F551	0551	Speed 12 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F552	0552	Speed 13 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F553	0553	Speed 14 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F554	0554	Speed 15 operation time	Ditto	0.1/0.1	5.0	Enabled	●/●	-	●	●	
F560	0560	Preset speed operation mode selection	0:Preset speed operation with no mode 1:Preset speed operation with mode	1/1	0	Disabled	●/●	-	●	●	
F561	0561	Preset speed operation frequency 1 operation mode	0:Forward run +1:Reverse run +2:Acceleration/deceleration switching signal 1 +4:Acceleration/deceleration switching signal 2 +8:V/f switching signal 1 +16:V/f switching signal 2 +32:Torque limit switching signal 1 +64:Torque limit switching signal 2	1/1	0	Disabled	●/●	-	●	●	
F562	0562	Preset speed operation frequency 2 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F563	0563	Preset speed operation frequency 3 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F564	0564	Preset speed operation frequency 4 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F565	0565	Preset speed operation frequency 5 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F566	0566	Preset speed operation frequency 6 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F567	0567	Preset speed operation frequency 7 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F568	0568	Preset speed operation frequency 8 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F569	0569	Preset speed operation frequency 9 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F570	0570	Preset speed operation frequency 10 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F571	0571	Preset speed operation frequency 11 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F572	0572	Preset speed operation frequency 12 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F573	0573	Preset speed operation frequency 13 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F574	0574	Preset speed operation frequency 14 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	
F575	0575	Preset speed operation frequency 15 operation mode	Ditto	1/1	0	Disabled	●/●	-	●	●	

[24] Protection functions [1/2]

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 Constant	User setting
							Speed control	Torque control			
F601	0601	Stall prevention level	0~165%, 165%:Deactivated	1/1	150	Enabled	●/●	-	●	●	
F602	0602	Inverter trip record retention selection	0:Clear when power is turned off 1:Retain even after power is turned off	1/1	0	Enabled	●/●	●/●	●	●	
F603	0603	Emergency stop	0:Coast stop 1:Deceleration stop 2:Emergency DC braking 3:Deceleration stop (deceleration 4)	1/1	0	Disabled	●/●	●/●	●	●	
F604	0604	Emergency DC braking control time	0.0~20.0 sec.	0.1/0.1	1.0	Enabled	●/●	●/●	●	●	
F605	0605	Output phase failure detection selection	0:Deselect 1:At starting (only one time after power is turned on) 2:At starting (each time power is turned on) 3:During operation 4:At starting + during operation) 5:Output cut-off detection enabled	1/1	0	Disabled	●/●	●/●	●	●	
F606	0606	OL reduction starting frequency	0.0~30.0Hz	0.1/0.01	6.0	Enabled	●/●	●/●	●	●	
F607	0607	Motor 150%-overload time limit	10~2400 sec.	1/1	300	Enabled	●/●	●/●	●	●	
F608	0608	Input phase failure detection mode selection	0:Deselect 1:Select	1/1	1	Disabled	●/●	●/●	●	●	
F609	0609	Low current detection current hysteresis width	1~20%	1/1	10	Enabled	●/●	●/●	●	●	
F610	0610	Low current trip selection	0:No trip, 1:Trip	1/1	0	Enabled	●/●	●/●	●	●	
F611	0611	Low current detection current	0~100%	1/1	0	Enabled	●/●	●/●	●	●	
F612	0612	Low current detection time	0~255 sec.	1/1	0	Enabled	●/●	●/●	●	●	

[24] Protection functions [2/2]

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 Constant	User setting
							Speed control	Torque control			
F613	0613	Selection of short circuit detection at starting	0:Each time (standard pulse) 1:Only one time after power is turned on 2:Each time (short pulse) 3:Only one time after power is turn on (short pulse)	1/1	0	Disabled	●/●	●/●	●	●	
F615	0615	Overtorque trip selection	0:No trip, 1:Trip	1/1	0	Enabled	●/●	●/●	●	●	
F616	0616	Overtorque detection level during power running	0~250%	1/0.01	150	Enabled	●/●	●/●	●	●	
F617	0617	Overtorque detection level during regenerative braking	0~250%	1/0.01	150	Enabled	●/●	●/●	●	●	
F618	0618	Overtorque detection time	0.00~10.00 sec.	0.01/0.01	0.50	Enabled	●/●	●/●	●	●	
F619	0619	Overtorque detection hysteresis	0~100%	1/0.01	10	Enabled	●/●	●/●	●	●	
F620	0620	Cooling fan control selection	0:Auto, 1:Always ON	1/1	0	Enabled	●/●	●/●	●	●	
F621	0621	Cumulative operation time alarm setting	0.1~999.9 (x100h)	0.1/0.1	610.0	Enabled	●/●	●/●	●	●	
F622	0622	Abnormal speed detection time	0.01~100.00 sec.	0.01/0.01	0.01	Enabled	-/●	●/●	●	●	
F623	0623	Overspeed detection frequency upper band	0.0:Disabled, 0.1~30.0Hz	0.1/0.01	0.0	Enabled	-/●	-/-	-	-	
F624	0624	Overspeed detection frequency lower band	0.0:Disabled, 0.1~30.0Hz	0.1/0.01	0.0	Enabled	-/●	-/-	-	-	
F625	0625	Undervoltage detection level	50~79%, 80%: (auto mode)	1/1	80	Disabled	●/●	●/●	●	●	
F626	0626	Overvoltage limit operation level	100~150%	1/1	*1	Disabled	●/●	-	●	●	
F627	0627	Undervoltage trip selection	0:Deselect, 1:Select	1/1	0	Disabled	●/●	●/●	●	●	
F628	0628	Undervoltage (trip alarm) detection time	0.01~10.00 sec.	0.01/0.01	0.03	Disabled	●/●	●/●	●	●	
F629	0629	Regenerative power ride-through control level	55~100%	1/1	75	Disabled	●/●	●/●	●	●	
F630	0630	Braking answer waiting time	0.0:Disabled, 0.1~10.0 sec.	0.1/0.1	0.0	Enabled	●/●	●/●	●	●	
F631	0631	Inverter overload selection	0:Standard (150%·60 sec.) 1:Estimation of temperature	1/1	0	Disabled	-	-	-	-	
F633	0633	VI/II analog input wire breakage detection level	0:None 1~100%	1/1	0	Enabled	●/●	●/●	●	●	
F634	0634	Annual average ambient temperature (calculation for part replacement alarms)	1:-10~+10°C 2:+11~+20°C 3:+21~+30°C 4:+31~+40°C 5:+41~+50°C 6:+51~+60°C	1/1	3	Enabled	●/●	●/●	●	●	
F635	0635	Rush current suppression relay activation time	0.0~2.5 sec.	0.1/0.1	0.0	Disabled	●/●	●/●	●	●	
F637	0637	PTC1 thermal selection	0:Deselect 1:Select	1/1	0	Disabled	●/●	●/●	●	●	
F638	0638	PTC2 thermal selection	0:Select 1:Deselect	1/1	0	Disabled	●/●	●/●	●	●	
F639	0639	Braking resistance overload time (10 times of rated torque)	0.1~600.0 sec.	0.1/0.1	5.0	Disabled	●/●	●/●	●	●	
F640	0640	Step-out detection current level (for PM motors)	10~150	1/1	100	Disabled	-	-	-	-	
F641	0641	Step-out detection time (for PM motors)	0.0:Not detect 0.1~25.0	0.1/0.1	0.0	Disabled	-	-	-	-	

*1: Default values vary depending on the capacity.

[25] Override

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 Constant	User setting
							Speed control	Torque control			
F660	0660	Override addition input selection	0:Disabled 1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:Operation panel input enabled (including LED/LCD option input) 5:Communication panel RS485 input enabled 6:Communication internal RS485 input enabled 7:Communications option input enabled 8:Optional A11 (differential current input) 9:Optional A12 (voltage/current input) 10:UP/DOWN frequency 11:RP pulse input 12:High-speed pulse input 13:Binary/BCD input	1/1	0	Enabled	●/●	-	●	●	
F661	0661	Override multiplication input selection	0:Disabled, 1:VI/II, 2:RR/S4, 3:RX, 4:f729, 5:Optional A11	1/1	0	Enabled	●/●	-	●	●	
F669	0669	Logic output/pulse train output selection (OUT1)	0:Logic output 1:Pulse output	1/1	0	Disabled	●/●	●/●	●	●	
F670	0670	AM terminal meter selection	0~64 *1	1/1	2	Enabled	●/●	●/●	●	●	

*1: This parameter moves to a fundamental parameter.

*1: ⇒ For the adjustment range.

[26] Meter output

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 Constant	User setting
							Speed control	Torque control			
F671	0671	AM terminal meter adjustment	-	1/1	-	Enabled	●/●	●/●	●	●	
F672	0672	MON1 terminal meter selection	0~64 *1	1/1	4	Enabled	●/●	●/●	●	●	
F673	0673	MON1 terminal meter adjustment	-	1/1	-	Enabled	●/●	●/●	●	●	
F674	0674	MON2 terminal meter selection	0~64 *1	1/1	5	Enabled	●/●	●/●	●	●	
F675	0675	MON2 terminal meter adjustment	-	1/1	-	Enabled	●/●	●/●	●	●	
F676	0676	Pulse output function selection	0~49 *1	1/1	0	Enabled	●/●	●/●	●	●	
F677	0677	Selection of number of pulses	1.00~43.20kHz	0.01/0.01	3.84	Enabled	●/●	●/●	●	●	
F678	0678	Constant at the time of filtering	4msec, 8msec~100msec	1/1	64	Disabled	●/●	●/●	●	●	
F681	0681	FM voltage/current output switching	0:Voltage 0~10V output 1:Current 0~20mA output	1/1	0	Disabled	●/●	●/●	●	●	
F682	0682	FM output gradient characteristic	0:Negative gradient (descending) 1:Positive gradient (ascending)	1/1	1	Enabled	●/●	●/●	●	●	
F683	0683	FM bias adjustment	-10.0~100.0%	0.1/0.1	0.0	Enabled	●/●	●/●	●	●	
F684	0684	FM output filter	0:No filter 1:Filter approx. 10ms 2:Filter approx. 15ms 3:Filter approx. 30ms 4:Filter approx. 60ms	1/1	0	Enabled	●/●	●/●	●	●	
F685	0685	AM output gradient characteristic	0:Negative inclination (downward slope) 1:Positive inclination (upward slope)	1/1	1	Enabled	●/●	●/●	●	●	
F686	0686	AM bias adjustment	-10.0~100.0%	0.1/0.1	0.0	Enabled	●/●	●/●	●	●	
F688	0688	MON1 voltage/current output switching	0:Voltage -10~10V output 1:Voltage 0~10V output 2:Current 0~20mA output	1/1	0.1	Disabled	●/●	●/●	●	●	
F689	0689	MON1 output gradient characteristic	0:Negative inclination (downward slope) 1:Positive inclination (upward slope)	1/1	1	Enabled	●/●	●/●	●	●	
F690	0690	MON1 bias adjustment	-10.0~100.0%	0.1/0.1	0.0	Enabled	●/●	●/●	●	●	
F691	0691	MON2 voltage/current output switching	0:Voltage -10~10V output 1:Voltage 0~10V output 2:Current 0~20mA output	1/1	0.1	Disabled	●/●	●/●	●	●	
F692	0692	MON2 output gradient characteristic	0:Negative inclination (downward slope) 1:Positive inclination (upward slope)	1/1	1	Enabled	●/●	●/●	●	●	
F693	0693	MON2 bias adjustment	-10.0~100.0%	0.1/0.1	0.0	Enabled	●/●	●/●	●	●	

■ This parameter moves to a fundamental parameter.

*1: ⇒ For the adjustment range.

[27] Operation panel parameters [1/2]

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 Constant	User setting
							Speed control	Torque control			
F700	0700	Parameter write protect selection	0:Permit, 1:Prohibit	1/1	0	Enabled	●/●	●/●	●	●	
F701	0701	Current/voltage unit selection	0:%, 1:A (ampere)/V (volt)	1/1	0	Enabled	●/●	●/●	●	●	
F702	0702	Frequency free unit display magnification	0.00:OFF, 0.01~200.0	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
F703	0703	Frequency free unit conversion selection	0:All frequencies display free unit conversion 1:PID frequencies free unit conversion	1/1	0	Enabled	●/●	●/●	●	●	
F705	0705	Free unit display gradient characteristic	0:Negative inclination (downward slope) 1:Positive inclination (upward slope)	1/1	1	Enabled	●/●	●/●	●	●	
F706	0706	Free unit display bias	0.00~F Hz	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
F707	0707	Changing step selection 1	0.00:Disabled, 0.01~F Hz	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
F708	0708	Changing step selection 2	0:Disabled, 1~255	1/1	0	Enabled	●/●	●/●	●	●	
F709	0709	Status monitor hold output	0:Default, 1:Peak hold, 2:Minimum hold	1/1	0	Enabled	●/●	●/●	●	●	
F710	0710	Standard monitor display selection	0~70 *1	1/1	0	Enabled	●/●	●/●	●	●	
F711	0711	Status monitor 1 display selection	Ditto	1/1	1	Enabled	●/●	●/●	●	●	
F712	0712	Status monitor 2 display selection	Ditto	1/1	2	Enabled	●/●	●/●	●	●	
F713	0713	Status monitor 3 display selection	Ditto	1/1	3	Enabled	●/●	●/●	●	●	
F714	0714	Status monitor 4 display selection	Ditto	1/1	4	Enabled	●/●	●/●	●	●	
F715	0715	Status monitor 5 display selection	Ditto	1/1	8	Enabled	●/●	●/●	●	●	
F716	0716	Status monitor 6 display selection	Ditto	1/1	16	Enabled	●/●	●/●	●	●	
F717	0717	Status monitor 7 display selection	Ditto	1/1	15	Enabled	●/●	●/●	●	●	
F718	0718	Status monitor 8 display selection	Ditto	1/1	14	Enabled	●/●	●/●	●	●	
F719	0719	Operation command clear selection when standby terminal (ST) is OFF	0:Clear operation command, 1:Retain operation command	1/1	1	Enabled	●/●	●/●	●	●	
F721	0721	Operation panel stop pattern	0:Deceleration stop, 1:Coasting	1/1	0	Enabled	●/●	●/●	●	●	
F725	0725	Operation panel torque command	-250~250%	1/0.01	0	Enabled	-	●/●	-	-	
F727	0727	Operation panel tension torque bias	-250~250%	1/0.01	0	Enabled	-	●/●	-	-	
F728	0728	Operation panel load sharing gain	0~250%	1/0.01	100	Enabled	-	●/●	-	-	
F729	0729	Operation panel override multiplication gain	-100~100%	1/0.01	0	Enabled	●/●	-	●	●	
F730	0730	Operation panel frequency setting prohibition selection	0:Permit 1:Prohibit	1/1	0	Enabled	●/●	●/●	●	●	

■ This parameter moves to a fundamental parameter. *1: ⇒ For the adjustment range.

[27] Operation panel parameters [2/2]

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 Constant	User setting
							Speed control	Torque control			
F 734	0734	Operation panel emergency stop operation prohibition selection	0:Permit 1:Prohibit	1/1	0	Enabled	●/●	●/●	●	●	
F 735	0735	Operation panel reset operation prohibition selection	0:Permit 1:Prohibit	1/1	0	Enabled	●/●	●/●	●	●	
F 736	0736	CMOD/FMOD change prohibition selection	0:Permit 1:Prohibit	1/1	1	Enabled	●/●	●/●	●	●	
F 737	0737	All key operation prohibition	0:Permit 1:Prohibit	1/1	0	Enabled	●/●	●/●	●	●	
F 740	0740	Trace selection	0:Deselect, 1:At tripping, 2:At triggering	1/1	1	Enabled	●/●	●/●	●	●	
F 741	0741	Trace cycle	0:4ms, 1:20ms, 2:100ms, 3:1s, 4:10s	1/1	2	Enabled	●/●	●/●	●	●	
F 742	0742	Trace data 1	0~49	1/1	0	Enabled	●/●	●/●	●	●	
F 743	0743	Trace data 2	0~49	1/1	1	Enabled	●/●	●/●	●	●	
F 744	0744	Trace data 3	0~49	1/1	2	Enabled	●/●	●/●	●	●	
F 745	0745	Trace data 4	0~49	1/1	3	Enabled	●/●	●/●	●	●	
F 750	0750	EASY key function	0:Quick mode/standard setting mode switching function 1:Shortcut key:2 Pressing for 2 sec. to record the parameter, pressing normally to jump to recorded parameter (first jump to the 1st history) 2:Operation panel/remote key:Operation panel by ON 3:Monitor peak minimum hold trigger	1/1	0	Disabled	●/●	●/●	●	●	
F 751	0751	EASY (selection) parameter 1	0~999 *1	1/1	40 (AU4)	Disabled	●/●	●/●	●	●	
F 752	0752	EASY (selection) parameter 2	0~999 *1	1/1	15 (pt)	Disabled	●/●	●/●	●	●	
F 753	0753	EASY (selection) parameter 3	0~999 *1	1/1	11 (FH)	Disabled	●/●	●/●	●	●	
F 754	0754	EASY (selection) parameter 4	0~999 *1	1/1	9 (ACC)	Disabled	●/●	●/●	●	●	
F 755	0755	EASY (selection) parameter 5	0~999 *1	1/1	10 (dEC)	Disabled	●/●	●/●	●	●	
F 756	0756	EASY (selection) parameter 6	0~999 *1	1/1	600 (tHr)	Disabled	●/●	●/●	●	●	
F 757	0757	EASY (selection) parameter 7	0~999 *1	1/1	6 (FM)	Disabled	●/●	●/●	●	●	
F 758	0758	EASY (selection) parameter 8	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 759	0759	EASY (selection) parameter 9	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 760	0760	EASY (selection) parameter 10	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 761	0761	EASY (selection) parameter 11	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 762	0762	EASY (selection) parameter 12	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 763	0763	EASY (selection) parameter 13	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 764	0764	EASY (selection) parameter 14	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 765	0765	EASY (selection) parameter 15	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 766	0766	EASY (selection) parameter 16	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 767	0767	EASY (selection) parameter 17	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 768	0768	EASY (selection) parameter 18	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 769	0769	EASY (selection) parameter 19	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 770	0770	EASY (selection) parameter 20	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 771	0771	EASY (selection) parameter 21	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 772	0772	EASY (selection) parameter 22	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 773	0773	EASY (selection) parameter 23	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 774	0774	EASY (selection) parameter 24	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 775	0775	EASY (selection) parameter 25	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 776	0776	EASY (selection) parameter 26	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 777	0777	EASY (selection) parameter 27	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 778	0778	EASY (selection) parameter 28	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 779	0779	EASY (selection) parameter 29	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 780	0780	EASY (selection) parameter 30	0~999 *1	1/1	999	Disabled	●/●	●/●	●	●	
F 782	0782	EASY (selection) parameter 32	0~999 *1	1/1	50 (PSEL)	Disabled	●/●	●/●	●	●	

*1: The communication number of the parameter is used for this setting.

[28] Communication function [1/2]

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 Constant	User setting
							Speed control	Torque control			
F800	0800	Baud rate (2-wire RS485)	0:9600 bps, 1:19200 bps, 2:38400 bps	1/1	1	Enabled	●/●	●/●	●	●	
F801	0801	Parity (common to 2-wire RS485 and 4-wire RS485)	0:Non parity, 1:Even parity, 2:Odd parity	1/1	1	Enabled	●/●	●/●	●	●	
F802	0802	Inverter number (common)	0~247	1/1	0	Enabled	●/●	●/●	●	●	
F803	0803	Communications time-out time (common to 2-wire RS485 and 4-wire RS485)	0:OFF, 1~100 sec.	1/1	0	Enabled	●/●	●/●	●	●	
F804	0804	Communications time-out action (common to 2-wire RS485 and 4-wire RS485)	0~8	1/1	8	Enabled	●/●	●/●	●	●	
F805	0805	Send waiting time (2-wire RS485)	0.00:Default, 0.01~2.00 sec.	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
F806	0806	Inverter-to-inverter communications (common to 2-wire RS485 and 4-wire RS485)	0:Slave (issues a 0Hz command if something goes wrong with the master) 1:Slave (continues operation if something goes wrong with the master) 2:Slave (trips for emergency stop if something goes wrong with the master) 3:Master (sends a frequency command) 4:Master (sends an output frequency) 5:Master (sends a torque command) 6:Master (sends an output torque command)	1/1	0	Enabled	●/●	●/●	●	●	
F807	0807	2-wire RS485 protocol selection (TSB/MODBUS)	0:TSB 1:MODBUS	1/1	0	Enabled	●/●	●/●	●	●	
F810	0810	Frequency point selection	0:Disabled 1:2-wire RS485 2:4-wire RS485 3:Communication add option	1/1	0	Enabled	●/●	-	●	●	
F811	0811	Point 1 setting	0~100%	1/1	0	Enabled *2	●/●	-	●	●	
F812	0812	Point 1 frequency	0.0~FH Hz	0.1/0.01	0.0	Enabled *2	●/●	-	●	●	
F813	0813	Point 2 setting	0~100%	1/1	100	Enabled *2	●/●	-	●	●	
F814	0814	Point 2 frequency	0.0~FH Hz	0.1/0.01	*1	Enabled *2	●/●	-	●	●	
F820	0820	Communication speed (4-wire RS485)	0:9600 bps, 1:19200 bps, 2:38400 bps	1/1	1	Enabled	●/●	-	●	●	
F821	0821	4-wire RS485 wiring method	0:2-wire type, 1:4-wire type	1/1	1	Enabled	●/●	-	●	●	
F825	0825	RS485 send waiting time	0.00:Default, 0.01~2.00 sec.	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	

*1: Inverter with a model number ending with -WN: 60.0 -WP: 50.0

*2: Effective when a command value is sent by communication.

[28] Communication function [2/2]

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 Constant	User setting
							Speed control	Torque control			
F826	0826	Inverter-to-inverter communication setting (4-wire RS485)	0:Slave (issues a 0Hz command if something goes wrong with the master) 1:Slave (continues operation if something goes wrong with the master) 2:Slave (trips for emergency stop if something goes wrong with the master) 3:Master (sends a frequency command) 4:Master (sends an output frequency) 5:Master (sends a torque command) 6:Master (sends an output torque command)	1/1	0	Enabled	●/●	●/●	●	●	
F829	0829	4-wire RS485 protocol selection (TSB/MODBUS)	0:TSB 1:MODBUS	1/1	0	Enabled	●/●	●/●	●	●	
F830	0830	Communication option (DeviceNet/ PROFIBUS) setting 1	0~7	1/1	0	Enabled	●/●	●/●	●	●	
F831	0831	Communication option (DeviceNet/ PROFIBUS) setting 2	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F832	0832	Communication option (DeviceNet/ PROFIBUS) setting 3	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F833	0833	Communication option (DeviceNet/ PROFIBUS) setting 4	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F834	0834	Communication option (DeviceNet/ PROFIBUS) setting 5	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F835	0835	Communication option (DeviceNet/ PROFIBUS) setting 6	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F836	0836	Communication option (DeviceNet/ PROFIBUS) setting 7	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F841	0841	Communication option (DeviceNet/ PROFIBUS) setting 8	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F842	0842	Communication option (DeviceNet/ PROFIBUS) setting 9	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F843	0843	Communication option (DeviceNet/ PROFIBUS) setting 10	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F844	0844	Communication option (DeviceNet/ PROFIBUS) setting 11	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F845	0845	Communication option (DeviceNet/ PROFIBUS) setting 12	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F846	0846	Communication option (DeviceNet/ PROFIBUS) setting 13	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F850	0850	Disconnection detection extended time	0.0~100.0 sec.	0.1/0.1	0.0	Enabled	●/●	●/●	●	●	
F851	0851	Inverter operation at disconnection	0:Inverter stop, communication command, frequency mode open (by CMOD, FMOD) 1:None (continued operation) 2:Deceleration stop 3:Coast stop 4:Network error (ErrB trip) 5:Preset speed operation (by F852 setting)	1/1	0	Enabled	●/●	●/●	●	●	
F852	0852	Preset speed operation selection	0:None 1~15:Preset speed operation (by parameter setting)	1/1	0	Enabled	●/●	●/●	●	●	
F853	0853	Communication option station address monitor	0~254	1/1	0	Enabled	●/●	●/●	●	●	
F854	0854	Communication option speed switch monitor Device Net/CC-Link	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F870	0870	Block write data 1	0:Deselect 1:Command information 1 2:Command information 2 3:Frequency command 4:Terminal board output data 5:Communication analog data	1/1	0	Enabled	●/●	●/●	●	●	
F871	0871	Block write data 2	Ditto	1/1	0	Enabled	●/●	●/●	●	●	
F875	0875	Block read data 1	0:Deselect 1:Status information 2:Output frequency 3:Output current 4:Output voltage 5:Alarm information 6:PID feedback value 7:Input terminal board monitor 8:Output terminal board monitor 9:VI/II terminal board monitor 10:RR/S4 terminal board monitor 11:RX terminal board monitor 12:Input voltage (DC detection) 13:PG feedback frequency 14:Torque 15:MY monitor 1 16:MY monitor 2 17:MY monitor 3 18:MY monitor 4 19:Free notes	1/1	0	Enabled	●/●	●/●	●	●	
F876	0876	Block read data 2	Ditto	1/1	0	Enabled	●/●	●/●	●	●	
F877	0877	Block read data 3	Ditto	1/1	0	Enabled	●/●	●/●	●	●	
F878	0878	Block read data 4	Ditto	1/1	0	Enabled	●/●	●/●	●	●	
F879	0879	Block read data 5	Ditto	1/1	0	Enabled	●/●	●/●	●	●	
F880	0880	Free notes	0~FFFF	1/1	0	Enabled	●/●	●/●	●	●	
F899	0899	Network option reset setting	0:None 1:Reset option circuit board and inverter	1/1	0	Disabled	●/●	●/●	●	●	

[29] My function [1/3]

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 Constant	User setting
							Speed control	Torque control			
F900	0900	Input function target 11	Input terminal function number 0:Deselect 1:F terminal 2:R terminal 3:ST terminal 4:RES terminal 5:S1 terminal 6:S2 terminal 7:S3 terminal 8:RR/S4 terminal 9:L11 terminal 10:L12 terminal 11:L13 terminal 12:L14 terminal 13:L15 terminal 14:L16 terminal 15:L17 terminal 16:L18 terminal 17:B12 terminal 18:B13 terminal 19:B14 terminal 20:B15 terminal 21:Virtual input terminal 1 25~32:Internal terminal 1~8 918~934:MY function number 1000~1255:Output selection number 2000~2099:FD00~FD99 3000~3099:FE00~FE99	1/1	0	Disabled	●/●	●/●	●	●	
F901	0901	Input function command 11	0:NOP 1:ST (move) 2:STN 3:AND (logical product) 4:ANDN 5:OR (logical sum) 6:ORN 7:EQ (equal) 8:NE 9:GT 10:GE (greater than or equal to) 11:LT 12:LE (less than or equal to) 13:ASUB 14:FB_ON_DELAY 15:FB_OFF_DELAY 16:FB_COUNTER1 17:FB_COUNTER2 18:FB_PEEK_HOLD 19:SET 20:RESET	1/1	0	Disabled	●/●	●/●	●	●	
F902	0902	Input function target 12	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	
F903	0903	Input function command 12	Same as F901	1/1	0	Disabled	●/●	●/●	●	●	
F904	0904	Input function target 13	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	
F905	0905	Output function assigned object 1	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	
F906	0906	Input function target 21	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	
F907	0907	Input function command 21	Same as F901	1/1	0	Disabled	●/●	●/●	●	●	
F908	0908	Input function target 22	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	
F909	0909	Input function command 22	Same as F901	1/1	0	Disabled	●/●	●/●	●	●	
F910	0910	Input function target 23	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	
F911	0911	Output function assigned object 2	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	
F912	0912	Input function target 31	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	
F913	0913	Input function command 31	Same as F901	1/1	0	Disabled	●/●	●/●	●	●	
F914	0914	Input function target 32	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	

[29] My function [2/3]

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			User setting
							Speed control	Torque control	PM control	
F915	0915	Input function command 32	Same as F901	1/1	0	Disabled	●/●	●/●	●	●
F916	0916	Input function target 33	Same as F900	1/1	0	Disabled	●/●	●/●	●	●
F917	0917	Output function assigned object 3	Same as F900	1/1	0	Disabled	●/●	●/●	●	●
F918	0918	My output percent data 1	0.00~200.0%	0.01/0.01	0.00	Enabled	●/●	●/●	●	●
F919	0919	My output percent data 2	0.00~200.0%	0.01/0.01	0.00	Enabled	●/●	●/●	●	●
F920	0920	My output percent data 3	0.00~200.0%	0.01/0.01	0.00	Enabled	●/●	●/●	●	●
F921	0921	My output percent data 4	0.00~200.0%	0.01/0.01	0.00	Enabled	●/●	●/●	●	●
F922	0922	My output percent data 5	0.00~200.0%	0.01/0.01	0.00	Enabled	●/●	●/●	●	●
F923	0923	My output frequency data 1	0.0~500.0Hz	0.1/0.1	0.0	Enabled	●/●	●/●	●	●
F924	0924	My output frequency data 2	0.0~500.0Hz	0.1/0.1	0.0	Enabled	●/●	●/●	●	●
F925	0925	My output frequency data 3	0.0~500.0Hz	0.1/0.1	0.0	Enabled	●/●	●/●	●	●
F926	0926	My output frequency data 4	0.0~500.0Hz	0.1/0.1	0.0	Enabled	●/●	●/●	●	●
F927	0927	My output frequency data 5	0.0~500.0Hz	0.1/0.1	0.0	Enabled	●/●	●/●	●	●
F928	0928	My output time data 1	0.01~600.0sec	0.01/0.01	0.01	Enabled	●/●	●/●	●	●
F929	0929	My output time data 2	0.01~600.0sec	0.01/0.01	0.01	Enabled	●/●	●/●	●	●
F930	0930	My output time data 3	0.01~600.0sec	0.01/0.01	0.01	Enabled	●/●	●/●	●	●
F931	0931	My output time data 4	0.01~600.0sec	0.01/0.01	0.01	Enabled	●/●	●/●	●	●
F932	0932	My output time data 5	0.01~600.0sec	0.01/0.01	0.01	Enabled	●/●	●/●	●	●
F933	0933	No. of times of My output data 1	0~9999 times	1/1	0	Enabled	●/●	●/●	●	●
F934	0934	No. of times of My output data 2	0~9999 times	1/1	0	Enabled	●/●	●/●	●	●
F935	0935	Input function target 41	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F936	0936	Input function command 41	Same as F901	1/1	0	Enabled	●/●	●/●	●	●
F937	0937	Input function target 42	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F938	0938	Input function command 42	Same as F901	1/1	0	Enabled	●/●	●/●	●	●
F939	0939	Input function target 43	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F940	0940	Output function assigned object 4	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F941	0941	Input function target 51	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F942	0942	Input function command 51	Same as F901	1/1	0	Enabled	●/●	●/●	●	●
F943	0943	Input function target 52	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F944	0944	Input function command 52	Same as F901	1/1	0	Enabled	●/●	●/●	●	●
F945	0945	Input function target 53	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F946	0946	Output function assigned object 5	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F947	0947	Output function target 31	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F948	0948	Input function command 61	Same as F901	1/1	0	Enabled	●/●	●/●	●	●
F949	0949	Input function target 62	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F950	0950	Input function command 62	Same as F901	1/1	0	Enabled	●/●	●/●	●	●
F951	0951	Input function target 63	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F952	0952	Output function assigned object 6	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F953	0953	Input function target 71	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F954	0954	Input function command 71	Same as F901	1/1	0	Enabled	●/●	●/●	●	●
F955	0955	Input function target 72	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F956	0956	Input function command 72	Same as F901	1/1	0	Enabled	●/●	●/●	●	●
F957	0957	Input function target 73	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F958	0958	Output function assigned object 7	Same as F900	1/1	0	Enabled	●/●	●/●	●	●
F959	0959	Analog input function target 11	0:Deselect 1:VI/II 2:RR/S4 3:RX 4:Optional AI1+, Optional AI1- 5:Optional AI2	1/1	0	Enabled	●/●	●/●	●	●
F961	0961	Analog function assigned object 11	0:Disabled 1:Acceleration 2:Upper limit frequency (UL) 3:Acceleration multiplication factor 4:Deceleration multiplication factor 5:Manual torque boost (ub) 6:OC stall (F60!) 7:Thermal protection (tHr) 8:Speed loop P gain (F450) 9:Drifting gain (F320) 10:PID P gain (F362)	1/1	0	Disabled	●/●	●/●	●	●

[29] My function [3/3]

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	Vf/Constant	User setting
							Speed control	Torque control			
F962	0962	Analog input function target 21	0:Deselect 1:Optional VI/II 2:RR/S4 3:RX 4:Optional AI1+, Optional AI1- 5:AI2	1/1	0	Enabled	●/●	●/●	●	●	
F964	0964	Analog function assigned object 21	0~10	1/1	0	Disabled	●/●	●/●	●	●	
F965	0965	Monitor output function target 11	2000~2099:FD00~FD99 3000~3099:FE00~FE99	1/1	2000	Enabled	●/●	●/●	●	●	
F966	0966	Monitor output function command 11	0:Normal monitor, 1:Max. value, 2:Min. value	1/1	0	Enabled	●/●	●/●	●	●	
F967	0967	Monitor output function target 21	2000~2099:FD00~FD99 3000~3099:FE00~FE99	1/1	2000	Enabled	●/●	●/●	●	●	
F968	0968	Monitor output function command 21	0:Normal monitor, 1:Max. value, 2:Min. value	1/1	0	Enabled	●/●	●/●	●	●	
F969	0969	Monitor output function target 31	2000~2099:FD00~FD99 3000~3099:FE00~FE99	1/1	2000	Enabled	●/●	●/●	●	●	
F970	0970	Monitor output function command 31	0:Normal monitor, 1:Max. value, 2:Min. value	1/1	0	Enabled	●/●	●/●	●	●	
F971	0971	Monitor output function target 41	2000~2099:FD00~FD99 3000~3099:FE00~FE99	1/1	2000	Enabled	●/●	●/●	●	●	
F972	0972	Monitor output function command 41	0:Normal monitor, 1:Max. value, 2:Min. value	1/1	0	Enabled	●/●	●/●	●	●	
F973	0973	Virtual input terminal selection 1	0~135	1/1	0	Disabled	●/●	●/●	●	●	
F974	0974	Virtual input terminal selection 2	0~135	1/1	0	Disabled	●/●	●/●	●	●	
F975	0975	Virtual input terminal selection 3	0~135	1/1	0	Disabled	●/●	●/●	●	●	
F976	0976	Virtual input terminal selection 4	0~135	1/1	0	Disabled	●/●	●/●	●	●	
F977	0977	My function selection	0:Deselect 1:My function + permission signal 2: My function always ON	1/1	0	Disabled	●/●	●/●	●	●	
F980	0980	Traverse selection	0: Disabled 1: Enabled	1/1	0	Disabled	●/●	-	●	●	
F981	0981	Traverse acceleration time	0.1~120.0 sec.	0.1/0.1	25.0	Enabled	●/●	-	●	●	
F982	0982	Traverse deceleration time	0.1~120.0 sec.	0.1/0.1	25.0	Enabled	●/●	-	●	●	
F983	0983	Traverse step	0.0~25.0%	0.1/0.1	10.0	Enabled	●/●	-	●	●	
F984	0984	Traverse jump step	0.0~50.0%	0.1/0.1	10.0	Enabled	●/●	-	●	●	