

TOSVERT VF-AS1

Parameter List (V154)

VF-AS1 Parameter List (V154)

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	
	PWR	
	RES	
	S1	
	S2	
	S3	
	CC	
	PP	
	RR/S4	
	VI/II	
	RX	
	FM	
	AM	
	CCA	
	P24/PLC	
	OUT1	
	OUT2	
	NO	
	CC	
	FLA	
	FLB	
	FLC	
Switch	S W 1 (Sink/Source switching)	INT/PLC , PLC , INT
	S W 2 (FM output switching)	0-10V/0-20mA , 0-1mA
	S W 3 (RR/S4 terminal switching)	S4 , RR
	S W 4 (OUT1 output switching)	PULS , LO

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

1. Panel operation frequency setting

Title	Communication No.	Function	Adjustment range	Default setting	User setting
<i>F</i> <i>L</i>	-	Panel Operation frequency	<i>L L</i> ~ <i>U L</i> Hz	0.0	

2. Basic parameter [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			
<i>R U H</i>	-	History function		1/1	-	-	●/●	●/●	●	●	
<i>R U 1</i>	0000	Automatic acceleration /deceleration	0:Disabled 1:Automatic setting 2:Automatic setting (during acceleration only)	1/1	0	Disabled	●/●	-	●	●	
<i>R U 2</i>	0001	Automatic torque boost	0:Disabled 1:Automatic torque boost + auto-tuning 1 2:Sensorless vector control 1+ auto-tuning 1	1/1	0	Disabled	●/●	-	●	●	
<i>R U 4</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>C M D</i>	0003	Command mode selection	0:Terminal input enabled 1:Operation panel input enabled (including LED/LCD option input) 2:2-wire RS485 communication input 3:4-wire RS485 communication input 4:Communication option input	1/1	0	Disabled	●/●	●/●	●	●	
<i>F M D</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) 5:2-wire RS485 communication input 6:4-wire RS485 communication input 7:Communication option input 8:Optional AI1 (differential current input) 9:Optional AI2 (voltage/current input) 10:UP/DOWN frequency 11:Optional RP pulse input 12:Optional high-speed pulse input 13:Optional binary/BCD input *1	1/1	2	Disabled	●/●	-	●	●	
<i>P L</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 control 8:PG feedback vector control	1/1	0	Disabled	-/- -/- ●/- ●/- ●/- -/- -/- -/- -/-	-/- -/- -/- -/- -/- -/- -/- -/- -/-	- - - - - - - - -	● ● - - - - - - -	
<i>u b</i>	0016	Manual torque boost 1	0.0~30.0%	0.1/0.1	Depends on capacity	Enabled	-	-	●	●	
<i>u L</i>	0014	Base frequency 1	25.0~500.0Hz	0.1/0.01	*3	Disabled	●/●	●/●	●	●	
<i>u L u</i>	0409	Base frequency voltage 1	200V class:50~330V 400V class:50~660V	1/0.1	Depends on capacity	Disabled	●/●	●/●	●	●	
<i>F H</i>	0011	Maximum frequency	30.0~500.0Hz	0.1/0.01	80.0	Disabled	●/●	●/●	●	●	
<i>U L</i>	0012	Upper limit frequency	0.0~ <i>F H</i> Hz	0.1/0.01	*3	Enabled	●/●	-	●	●	
<i>L L</i>	0013	Lower limit frequency	0.0~ <i>U L</i> Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>A L L</i>	0009	Acceleration time 1	0.1~6000 sec.	0.1/0.1 *2	Depends on capacity	Enabled	●/●	-	●	●	
<i>d E L</i>	0010	Deceleration time 1	0.1~6000 sec.	0.1/0.1 *2	Depends on capacity	Enabled	●/●	-	●	●	
<i>R u F 2</i>	0213	RR/S4 input point 2 frequency	0.0~ <i>F H</i> Hz	0.1/0.01	*3	Enabled	●/●	-	●	●	
<i>R i F 2</i>	0204	V/I input point 2 frequency	0.0~ <i>F H</i> Hz	0.1/0.01	*3	Enabled	●/●	-	●	●	
<i>S r 1</i>	0019	Preset speed operation frequency 1	<i>L L</i> ~ <i>U L</i> Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>S r 2</i>	0020	Preset speed operation frequency 2	<i>L L</i> ~ <i>U L</i> Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>S r 3</i>	0021	Preset speed operation frequency 3	<i>L L</i> ~ <i>U L</i> Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>S r 4</i>	0022	Preset speed operation frequency 4	<i>L L</i> ~ <i>U L</i> Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>S r 5</i>	0023	Preset speed operation frequency 5	<i>L L</i> ~ <i>U L</i> Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>S r 6</i>	0024	Preset speed operation frequency 6	<i>L L</i> ~ <i>U L</i> Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>S r 7</i>	0019	Preset speed operation frequency 7	<i>L L</i> ~ <i>U L</i> Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
<i>F r</i>	0008	Forward run/reverse run selection (operation panel operation)	0:Forward run 1:Reverse run 2:Forward run (Forward/reverse switchable on operation panel) 3:Reverse run(Forward/reverse switchable on operation panel)	1/1	0	Enabled	●/●	●/●	●	●	

*1: Unsupported option

*2: Changing the parameter *L U P* enables to set to 0.01 sec. (adjustment range: 0.01~600.0 sec.).

*3: Inverter with a model number ending with -WN1: 60.0 -WP1: 50.0

2. 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 constant	User setting
										Speed control	Torque control			
ε H r	0600	Motor electronic thermal protection level 1	10~100%				1/1	100	Enabled	●/●	●/●	●	●	
θ L n	0017	Electronic thermal protection characteristic selection	Setting	Motor type	Overload protection	OL stall	1/1	0	Enabled	●/●	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)												
δ S P U	0701	Current/voltage unit selection	0.%, 1:A (ampere)/V (volt)				1/1	0	Enabled	●/●	●/●	●	●	
φ n S L	0005	FM terminal meter selection	0~76 *1				1/1	0	Enabled	●/●	●/●	●	●	
φ n	0006	FM terminal meter adjustment	-				1/1	*3	Enabled	●/●	●/●	●	●	
φ n S L	0670	AM terminal meter selection	0~76 *1				1/1	2	Enabled	●/●	●/●	●	●	
φ n	0671	AM terminal meter adjustment	-				1/1	*3	Enabled	●/●	●/●	●	●	
ζ F	0300	PWM carrier frequency	1.0~16.0kHz (2.5~8.0kHz) *2				0.1/0.1	Depends on capacity	Enabled	●/●	●/●	●	●	
υ υ S	0301	Auto-restart control selection	0:Disabled 1:At auto-restart after momentary stop 2:When turning ST on or off 3:1+2 4:At start-up				1/1	0	Disabled	●/●	●/●	●	●	
υ υ C	0302	Regenerative power ride-through control	0:Disabled 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	●/●	-/-	●	●	
ρ b	0304	Dynamic braking selection	Setting	Braking function	ST-off	Overload detect	1/1	0	Disabled	●/●	●/●	●	●	
			0	Disabled	-	-								
			1	Enabled (It is effective in trip condition.) The state of OL r trip is excluded.	Enabled	protect								
			2			not protect								
			3	Disabled	Enabled	protect								
			4			not protect								
			5	Enabled (It isn't effective in trip condition.)	Enabled	protect								
			6			not protect								
7	protect													
8	not protect													
ρ b r	0308	Dynamic braking resistance	0.5~1000Ω				0.1/0.1	Depends on capacity	Disabled	●/●	●/●	●	●	
ρ b C P	0309	Allowable continuous braking resistance	0.01~600.0kW				0.01/0.01	Depends on capacity	Disabled	●/●	●/●	●	●	
ε Y P	0007	Factory default setting	0: - 1:50 Hz default setting 2:60 Hz default setting 3:Factory default setting 4:Trip clear 5:Cumulative operation time cleared 6:Initialization of type information 7:Save user-defined parameters 8:Reset of user-defined parameters 9:Cumulative fan operation time record clear 10:Acceleration/deceleration time setting 0.01 sec.~600.0 sec. 11:Acceleration/deceleration time setting 0.1 sec.~6000sec.				1/1	0	Disabled	●/●	●/●	●	●	
ρ S E L	0050	Registered 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	●/●	●/●	●	●	
φ 1 - - - φ 9 - -	-	Extended parameters	Set detailed parameters shown in the following pages.				-	-	-	●/●	●/●	●	●	
φ r U	-	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 2.5 and 8.0kHz inclusive.

*3: Default setting value is adjusted for connection of frequency meters "QS60T". (Between FM and CCA: Approx. 3.6V) (Between AM and CCA: Approx. 3.6V)

3.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 constant	User setting
							Speed control	Torque control			
F 100	0100	Low-speed signal output frequency	0.0~UL Hz	0.1/0.01	0.0	Enabled	●/●	●/●	●	●	
F 101	0101	Speed reach setting frequency	0.0~UL Hz	0.1/0.01	0.0	Enabled	●/●	●/●	●	●	
F 102	0102	Speed reach detection band	0.0~UL Hz	0.1/0.01	2.5	Enabled	●/●	●/●	●	●	

[2] Input signal 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 constant	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:Disabled 1:Enabled	1/1	0	Disabled	●/●	●/●	●	●	
F 107	0107	Unsupported	0: - 1: - 2: - 3: - 4: - 5: - 6: - 7: - 8: -	1/1	0	Disabled	●/●	●/●	●	●	
F 108	0108	Analog V/II 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 constant	User setting
							Speed control	Torque control			
F 110	0110	Always ON function selection 1	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 111	0111	Input terminal function selection 1 (F)	0~155 *1	1/1	2	Disabled	●/●	●/●	●	●	
F 112	0112	Input terminal function selection 2 (R)	0~155 *1	1/1	4	Disabled	●/●	●/●	●	●	
F 113	0113	Input terminal function selection 3 (ST)	0~155 *1	1/1	6	Disabled	●/●	●/●	●	●	
F 114	0114	Input terminal function selection 4 (RES)	0~155 *1	1/1	8	Disabled	●/●	●/●	●	●	
F 115	0115	Input terminal function selection 5 (S1)	0~155 *1	1/1	10	Disabled	●/●	●/●	●	●	
F 116	0116	Input terminal function selection 6 (S2)	0~155 *1	1/1	12	Disabled	●/●	●/●	●	●	
F 117	0117	Input terminal function selection 7 (S3)	0~155 *1	1/1	14	Disabled	●/●	●/●	●	●	
F 118	0118	Input terminal function selection 8 (RR/S4)	0~155 *1	1/1	16	Disabled	●/●	●/●	●	●	
F 119	0119	Input terminal function selection 9 (LI1)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 120	0120	Input terminal function selection 10 (LI2)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 121	0121	Input terminal selection 11 (LI3)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 122	0122	Input terminal selection 12 (LI4)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 123	0123	Input terminal selection 13 (LI5)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 124	0124	Input terminal selection 14 (LI6)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 125	0125	Input terminal selection 15 (LI7)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 126	0126	Input terminal selection 16 (LI8)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 127	0127	Always ON function selection 2	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 128	0128	Always ON function selection 3	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 130	0130	Output terminal function selection 1 (OUT1)	0~255 *1	1/1	4	Disabled	●/●	●/●	●	●	
F 131	0131	Output terminal function selection 2 (OUT2)	0~255 *1	1/1	6	Disabled	●/●	●/●	●	●	
F 132	0132	Output terminal function selection 3 (FL)	0~255 *1	1/1	10	Disabled	●/●	●/●	●	●	
F 133	0133	Output terminal function selection 4 (OUT3)	0~255 *1	1/1	254	Disabled	●/●	●/●	●	●	
F 134	0134	Output terminal function selection 5 (OUT4)	0~255 *1	1/1	254	Disabled	●/●	●/●	●	●	
F 135	0135	Output terminal function selection 6 (R1)	0~255 *1	1/1	254	Disabled	●/●	●/●	●	●	
F 136	0136	Output terminal function selection 7 (OUT5)	0~255 *1	1/1	254	Disabled	●/●	●/●	●	●	
F 137	0137	Output terminal function selection 8 (OUT6)	0~255 *1	1/1	254	Disabled	●/●	●/●	●	●	
F 138	0138	Output terminal function selection 9 (R2)	0~255 *1	1/1	254	Disabled	●/●	●/●	●	●	

*1: ⇒ For the adjustment range See the Instruction Manual.

[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 constant	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	*4	-	-	-	-	-	-	-	-	
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)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 155	0165	Input terminal selection 18 (B13)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 156	0166	Input terminal selection 19 (B14)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 157	0167	Input terminal selection 20 (B15)	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 158	0168	Output terminal function selection 10 (R3) *3	0~255 *1	1/1	254	Disabled	●/●	●/●	●	●	
F 159	0169	Output terminal function selection 11 (R4) *3	0~255 *1	1/1	254	Disabled	●/●	●/●	●	●	
F 170	0170	Base frequency 2	25.0~FH Hz	0.1/0.01	*2	Disabled	-	-	-	●	
F 171	0171	Base frequency voltage 2	50~330V/660V	1/0.1	Depends on capacity	Disabled	-	-	-	●	
F 172	0172	Manual torque boost 2	0.0~30.0%	0.1/0.1	Depends on capacity	Enabled	-	-	-	●	
F 173	0173	Thermal protection level 2	10~100%	1/1	100	Enabled	-	-	-	●	
F 174	0174	Base frequency 3	25.0~FH Hz	0.1/0.01	*2	Disabled	-	-	-	●	
F 175	0175	Base frequency voltage 3	50~330V/660V	1/0.1	Depends on capacity	Disabled	-	-	-	●	
F 176	0176	Manual torque boost 3	0.0~30.0%	0.1/0.1	Depends on capacity	Enabled	-	-	-	●	
F 177	0177	Thermal protection level 3	10~100%	1/1	100	Enabled	-	-	-	●	
F 178	0178	Base frequency 4	25.0~FH Hz	0.1/0.01	*2	Disabled	-	-	-	●	
F 179	0179	Base frequency voltage 4	50~330V/660V	1/0.1	Depends on capacity	Disabled	-	-	-	●	
F 180	0180	Manual torque boost 4	0.0~30.0%	0.1/0.1	Depends on capacity	Enabled	-	-	-	●	
F 181	0181	Thermal protection level 4	10~100%	1/1	100	Enabled	-	-	-	●	

*1: ⇒ For the adjustment range See the Instruction Manual.

*2: Inverter with a model number ending with -WN1: 60.0 -WP1: 50.0

*3: Unsupported option

*4: F 142 has no function.

[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 constant	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 constant	User setting
							Speed control	Torque control			
F 200	0200	Frequency priority selection	0:F F00d/F 207 terminal switching (input terminal function selection 104, 105) 1:F F00d/F 207 frequency switching (switching with F 208)	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	●/●	●/●	●	●	
R 1F2	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 F F0d (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	●/●	-	●	●	

This parameter moves to a fundamental parameter.

*1: Inverter with a model number ending with -WN1: 60.0 -WP1: 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 constant	User setting
							Speed control	Torque control			
F209	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	●/●	●/●	●	●	
F210	0210	RR/S4 input point 1 setting	0~100%	1/1	0	Enabled	●/●	●/●	●	●	
F211	0211	RR/S4 input point 1 frequency	0.0~F Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F212	0212	RR/S4 input point 2 setting	0~100%	1/1	100	Enabled	●/●	●/●	●	●	
F213	0213	RR/S4 input point 2 frequency	0.0~F 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~F 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~F 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	A11 input point 1 setting	-100~100%	1/1	0	Enabled	●/●	●/●	●	●	
F223	0223	A11 input point 1 frequency	0.0~F Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F224	0224	A11 input point 2 setting	-100~100%	1/1	100	Enabled	●/●	●/●	●	●	
F225	0225	A11 input point 2 frequency	0.0~F Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	
F226	0226	A11 input point 1 rate	-250~250% (for torque control etc.)	1/0.01	0	Enabled	●/●	●/●	-	-	
F227	0227	A11 input point 2 rate	-250~250% (for torque control etc.)	1/0.01	100	Enabled	●/●	●/●	-	-	
F228	0228	A12 input point 1 setting	0~100%	1/1	0	Enabled	●/●	●/●	●	●	
F229	0229	A12 input point 1 frequency	0.0~F Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F230	0230	A12 input point 2 setting	0~100%	1/1	100	Enabled	●/●	●/●	●	●	
F231	0231	A12 input point 2 frequency	0.0~F 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~F 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~F Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	

■ This parameter moves to a fundamental parameter.
*1: Inverter with a model number ending with -WN1: 60.0 -WP1: 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 constant	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~F 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	●/●	-	●	●	
F245	0245	Start frequency/top frequency operation selection	0:standard 1:mode 1	1/1	0	Disabled	●/●	-/-	●	●	

[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 constant	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:Disabled, 1:Enabled	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 constant	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 mode	0:Disabled 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	LL~UL Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F269	0269	Initial up/down frequency rewriting	0:Not changed 1:Setting of F268 changed 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 constant	User setting
							Speed control	Torque control			
F270	0270	Jump frequency 1	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	
F271	0271	Jumping width 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	Jumping width 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	Jumping width 3	0.0~30.0Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	

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

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			
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 constant	User setting		
							Speed control	Torque control					
CF	0300	PWM carrier frequency	1.0~16.0kHz (2.5~8.0kHz) *1	0.1/0.1	Depends on capacity	Enabled	●/●	●/●	●	●			
UW5	0301	Auto-restart control selection	0:Disabled, 1:At auto-restart 2:When turning ST operation standby signal on or off, 3:1+2, 4:Starting	1/1	0	Disabled	●/●	●/●	●	●			
UWC	0302	Regenerative power ride-through control	0:Disabled, 1:Power ride-through 2:Deceleration stop during power failure 3:Synchronized deceleration/acceleration (synchronized deceleration/acceleration signal) 4:Synchronized deceleration/acceleration (synchronized deceleration/acceleration signal +power failure)	1/1	0	Disabled	●/●	-/-	●	●			
F303	0303	Retry selection	0:Deselect, 1-10	1/1	0	Enabled	●/●	●/●	●	●			
Pb	0304	Dynamic braking selection	Setting	Braking function	ST-off	Overload detect	1/1	0	Disabled	●/●	●/●	●	●
			0	Disabled	-	-							
			1	Enabled (It is effective in trip condition.) The state of o l r trip is excluded.	Enabled	protect							
			2			not protect							
			3			protect							
			4			not protect							
			5	Enabled (It isn't effective in trip condition.)	Enabled	protect							
			6			not protect							
			7			protect							
8	not protect												

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 2.5 and 8.0kHz inclusive.

[12] Tripless intensification setup [2/2]

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			
F307	0307	Base frequency voltage selection (correction of supply voltage)	0: Without voltage compensation (limitless output voltage) 1: With voltage compensation (limitless output voltage) 2: Without voltage compensation (limited output voltage) 3: With voltage compensation (limited output voltage)	1/1	0	Disabled	Parameter is changeable, but fixed to "with voltage compensation" internally. When F307 is set to 0 or 1, fixed at 1 internally. When F307 is set to 2 or 3, fixed at 3 internally.			•	
Pbr	0308	Dynamic braking resistance	0.5~1000Ω	0.1/0.1	Depends on capacity	Disabled	●/●	●/●	●	●	
PbCP	0309	Allowable continuous braking resistance	0.01~600.0kW	0.01/0.01	Depends on capacity	Disabled	●/●	●/●	●	●	
F310	0310	Non-stop control time/deceleration time during power failure	0.1~320.0 sec.	0.1/0.1	2.0	Enabled *2/ 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:Disabled, 1:Enabled	1/1	0	Disabled	●/●	●/●	●	●	
F313	0313	Output voltage waveform selection *1	0:PWM carrier frequency control 1 1:PWM carrier frequency control 2	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 4: Not decrease carrier frequency automatically, with sinusoidal filter 5: Decrease carrier frequency automatically, with sinusoidal filter	1/1	Depends on capacity	Disabled	●/●	●/●	●	●	
F317	0317	Synchronized deceleration time (time elapsed between start of deceleration to stop)	0.1~6000 sec.	0.1/0.1 *3	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 *3	2.0	Enabled	●/●	-/-	●	●	
F319	0319	Regenerative over-excitation upper limit	100~160%	1/1	140	Disabled	●/●	●/●	-	●	

■ This parameter moves to a fundamental parameter.

*1: Possible to set to 200V-55kW/400V-90kW.

*2: Although the setting can be written into memory if ULC is set to 1 (power ride-through control) if cannot be written if ULC is set to 2 (deceleration stop during a power failure)

*3: Changing the parameter tYP enables to set to 0.01 sec. (adjustment range: 0.01~600.0 sec)

[13] Drooping 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			
F320	0320	Drooping gain	0.0~100.0% (Enabled if P _t =3, 4, 7 or 8)	0.1/0.1	0.0	Enabled *1	●/●	-	-	-	
F321	0321	Speed at drooping gain 0%	0.0~320.0Hz (Enabled if P _t =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 _t =3, 4, 7 or 8)	0.1/0.01	0.0	Enabled	●/●	-	-	-	
F323	0323	Drooping insensitive torque	0~100% (Enabled if P _t =3, 4, 7 or 8)	1/1	10	Enabled	●/●	-	-	-	

*1: Drooping gain can be changed within a range of 0.1 to 100.0% during operation.

When changing the setting to 0.0 (no drooping) or 0.0, stop operation.

[14] Functions for lift [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			
F324	0324	Drooping output filter	0.1~200.0 rad/s (Enabled if P _t =3, 4, 7 or 8)	0.1/0.1	100.0	Enabled	●/●	-	-	-	
F328	0328	Light-load high-speed operation selection	0:Disabled 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 F330 (Power running at F command: Increase) 4:High-speed operation speed set with F330 (Power running at R command: Increase)	1/1	0	Disabled	●/●	-	●	●	
F329	0329	Light-load high-speed learning function	0:No learning, 1:Forward run learning 2:Reverse run learning	1/1	0	Disabled	●/●	-	-	-	
F330	0330	Automatic light-load high-speed operation frequency	30.0~UL Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	
F331	0331	Light-load high-speed operation switching lower limit frequency	5.0~UL Hz	0.1/0.01	40.0	Enabled	●/●	-	●	●	
F332	0332	Light-load high-speed operation load waiting time	0.0~10.0 sec.	0.1/0.1	0.5	Enabled	●/●	-	●	●	
F333	0333	Light-load high-speed operation load detection time	0.0~10.0 sec.	0.1/0.1	1.0	Enabled	●/●	-	●	●	
F334	0334	Light-load high-speed operation heavy load detection time	0.0~10.0 sec.	0.1/0.1	0.5	Enabled	●/●	-	●	●	
F335	0335	Switching load torque during power running	-250~250%	1/0.01	50	Enabled	●/●	-	●	●	
F336	0336	Heavy-load torque during power running	-250~250%	1/0.01	100	Enabled	●/●	-	●	●	
F337	0337	Heavy-load torque during constant power running	-250~250%	1/0.01	50	Enabled	●/●	-	●	●	
F338	0338	Switching load torque during regenerative braking	-250~250%	1/0.01	50	Enabled	●/●	-	●	●	

*1: Inverter with a model number ending with -WN1: 60.0 -WP1: 50.0

[14] Functions for lift [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			
F340	0340	Creeping time1	0.00 ~ 2.50sec.	0.01/0.01	0	Enabled	●/●	-	-	-	-
F341	0341	Braking mode selection	0:Disabled, 1:Forward winding up 2:Reverse winding up, 3:Horizontal operation	1/1	0	Disabled	●/●	-	-	-	-
F342	0342	Load portion torque input selection	0:Disabled, 1:V/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F343 enabled 5:2-wire RS485 communication input 6:4-wire RS485 communication input 7:Communications option input enabled 8:Optional AI1 (differential current input)	1/1	4	Enabled	●/●	-	-	-	-
F343	0343	Hoisting torque bias input (valid only when F342=4)	-250~250%	1/0.01	100	Enabled	●/●	-	-	-	-
F344	0344	Lowering torque bias multiplier	0~100%	1/0.01	100	Enabled	●/●	-	-	-	-
F345	0345	Brake release time	0.00~2.50 sec.	0.01/0.01	0.05	Enabled	●/●	-	-	-	-
F346	0346	Creeping frequency	F240~20.0 Hz	0.1/0.01	3.0	Disabled	●/●	-	-	-	-
F347	0347	Creeping time	0.00~2.50 sec.	0.01/0.01	0.10	Enabled	●/●	-	-	-	-
F348	0348	Braking time learning function	0:Disabled 1:Brake signal learning (0 after adjustment)	1/1	0	Enabled	●/●	-	-	-	-
F349	0349	Acceleration/deceleration suspend function	0:Disabled, 1:Parameter setting, 2:Terminal input	1/1	0	Disabled	●/●	-	●	●	-
F350	0350	Acceleration suspend frequency	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	-
F351	0351	Acceleration suspend time	0.0~10.0 sec.	0.1/0.1	0.0	Enabled	●/●	-	●	●	-
F352	0352	Deceleration suspend frequency	0.0~FH Hz	0.1/0.01	0.0	Enabled	●/●	-	●	●	-
F353	0353	Deceleration suspend time	0.0~10.0 sec.	0.1/0.1	0.0	Enabled	●/●	-	●	●	-

[15] Commercial/inverter switching function

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			
F354	0354	Commercial power/inverter switching output selection	0:Disabled 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	●/●	●/●	●	●	-
F355	0355	Commercial power/inverter switching frequency	0~UL Hz	0.1/0.01	*1	Enabled	●/●	●/●	●	●	-
F356	0356	Inverter-side switching waiting time	0.10~10.00 sec.	0.01/0.01	Depends on capacity	Enabled	●/●	●/●	●	●	-
F357	0357	Commercial power-side switching waiting time	0.40~10.00 sec.	0.01/0.01	0.62	Enabled	●/●	●/●	●	●	-
F358	0358	Commercial power switching frequency holding time	0.10~10.00 sec.	0.01/0.01	2.00	Enabled	●/●	●/●	●	●	-

*1: Inverter with a model number ending with -WN1: 60.0 -WP1: 50.0

[16] PID 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			
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	●/●	-	●	●	-
F360	0360	PID control feedback control signal selection	0:Deviation input (no feedback input) 1:V/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:Optional AI1 (differential current input) 5:Optional AI2 (voltage/current input) 6: PG feedback option	1/1	0	Disabled	●/●	-	●	●	-
F361	0361	Delay filter	0.0~25.0	1/1	0.1	Enabled	●/●	-	●	●	-
F362	0362	Proportional (P) gain	0.01~100.0	0.01/0.01	0.10	Enabled	●/●	-	●	●	-
F363	0363	Integral (I) gain	0.01~100.0	0.01/0.01	0.10	Enabled	●/●	-	●	●	-
F364	0364	PID deviation upper limit	LL~UL Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	-
F365	0365	PID deviation lower limit	LL~UL Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	-
F366	0366	Differential (D) gain	0.00~2.55	0.01/0.01	0.00	Enabled	●/●	-	●	●	-
F367	0367	Process upper limit	LL~UL Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	-
F368	0368	Process lower limit	LL~UL Hz	0.1/0.01	LL	Enabled	●/●	-	●	●	-
F369	0369	PID control waiting time	0~2400 sec.	1/1	0	Enabled	●/●	-	●	●	-
F370	0370	PID output upper limit	LL~UL Hz	0.1/0.01	*1	Enabled	●/●	-	●	●	-
F371	0371	PID output lower limit	LL~UL Hz	0.1/0.01	LL	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	●/●	-	●	●	-

*1: Inverter with a model number ending with -WN1: 60.0 -WP1: 50.0

[17] Speed feedback/positioning 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			
F 3 7 5	0375	Number of PG input pulses	1~9999	1/1	500	Disabled	-/●	-/●	-	-	
F 3 7 6	0376	Selection of number of PG input phases	1:Single-phase input 2:Two-phase input 3:Two-phase input (Inversion of polarity)	1/1	2	Disabled	-/●	-/●	-	-	
F 3 7 7	0377	PG disconnection detection	0:Disabled 1:Enabled (with filter) 2:Enabled (Detection of momentary power failure)	1/1	0	Disabled	-/●	-/●	-	-	
F 3 7 8	0378	Number of RP terminal input pulses	1~9999	1/1	500	Disabled	●/●	●/●	●	●	
F 3 7 9	0379	PID output dead band	0~100%	1/1	0	Enabled	●/●	-	●	●	
F 3 8 1	0381	Simple positioning completion range	1~4000	1/1	100	Enabled	-/●	-	-	-	

[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			
F 4 0 0	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	●/●	●/●	-	-	
F 4 0 1	0401	Slip frequency gain	0~150%	1/1	70	Enabled	●/-	-	-	-	
F 4 0 2	0402	Cooled	0:Disabled 1:Self-cooled motor 2:Forced air-cooled motor	1/1	0	Disabled	●/●	●/●	-	-	
F 4 0 5	0405	Motor rated capacity (motor name plate)	0.10~500.0kW	0.01/0.01	Depends on capacity	Disabled	●/●	●/●	-	-	
F 4 0 6	0406	Motor rated current (motor name plate)	0.1~2000A	0.1/0.1	Depends on capacity	Disabled	●/●	●/●	-	-	
F 4 0 7	0407	Motor rated rotational speed (motor name plate)	100~60000min ⁻¹ *1	1/1	Depends on capacity	Disabled	●/●	●/●	-	-	
F 4 1 0	0410	Motor constant 1 (torque boost)	0.0~30.0%	0.1/0.1	Depends on capacity	Enabled	●/●	●/●	-	-	
F 4 1 1	0411	Motor constant 2 (no load current)	10~90%	1/1	Depends on capacity	Disabled	●/●	●/●	-	-	
F 4 1 2	0412	Motor constant 3 (leak inductance)	0~250(×0.1%)	0.1/0.1	Depends on capacity	Disabled	●/●	●/●	-	-	
F 4 1 3	0413	Motor constant 4 (rated slip)	0.1~25.0%	0.1/0.1	Depends on capacity	Disabled	●/●	●/●	-	-	
F 4 1 5	0415	Exciting strengthening coefficient	100~130%	1/1	100	Disabled	●/●	●/●	-	-	
F 4 1 6	0416	Stall prevention factor	10~250	1/1	100	Disabled	●/●	●/●	-	-	

*1: If the speed of rotation is set at 10,000min⁻¹ or more, the error messages **1000** and **E 1** (if the speed of rotation is set at 10,000min⁻¹) are displayed alternately..

[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			
F 4 2 0	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) 5:2-wire RS485 communication input 6:4-wire RS485 communication input 7:Communications option input enabled 8:Optional AI1 (differential current input)	1/1	3	Enabled	-	●/●	-	-	
F 4 2 1	0421	Torque reference filter	0~1000ms	1/1	0	Enabled	-	●/●	-	-	
F 4 2 3	0423	Tension torque bias input selection (torque control)	0:Disabled, 1~8 (same as F 4 2 0)	1/1	0	Enabled	-	●/●	-	-	
F 4 2 4	0424	Load sharing gain input selection	0:Disabled, 1~8 (same as F 4 2 0)	1/1	0	Enabled	-	●/●	-	-	
F 4 2 5	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:F 4 2 5 enabled	1/1	0	Enabled	-	●/●	-	-	
F 4 2 6	0426	Forward speed limit input level	0.0~UL Hz	0.1/0.01	*1	Enabled	-	●/●	-	-	
F 4 2 7	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:F 4 2 7 enabled	1/1	0	Enabled	-	●/●	-	-	
F 4 2 8	0428	Reverse speed limit input level	0.0~UL Hz	0.1/0.01	*1	Enabled	-	●/●	-	-	
F 4 3 0	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:F 4 3 0 enabled	1/1	0	Enabled	-	●/●	-	-	
F 4 3 1	0431	Speed limit (torque = 0) center value	0.0~FH Hz	0.1/0.01	0.0	Enabled	-	●/●	-	-	
F 4 3 2	0432	Speed limit (torque = 0) band	0.0~FH Hz	0.1/0.01	0.0	Enabled	-	●/●	-	-	
F 4 3 5	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 -WN1: 60.0 -WP1: 50.0

[20] Torque limit

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			
F440	0440	Power running torque limit 1 selection	1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F441	1/1	4	Enabled	●/●	●/●	●	-	
F441	0441	Power running torque limit 1 level	0.0~249.9%, 250.0:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	-	
F442	0442	Regenerative braking torque limit 1 selection	1:VI/II (voltage/current input) 2:RR/S4 (potentiometer/voltage input) 3:RX (voltage input) 4:F443	1/1	4	Enabled	●/●	●/●	●	-	
F443	0443	Regenerative braking torque limit 1 level	0.0~249.9%, 250.0:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	-	
F444	0444	Power running torque limit 2 level	0.0~249.9%, 250.0:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	-	
F445	0445	Regenerative braking torque limit 2 level	0.0~249.9%, 250.0:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	-	
F446	0446	Power running torque limit 3 level	0.0~249.9%, 250.0:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	-	
F447	0447	Regenerative braking torque limit 3 level	0.0~249.9%, 250.0:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	-	
F448	0448	Power running torque limit 4 level	0.0~249.9%, 250.0:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	-	
F449	0449	Regenerative braking torque limit 4 level	0.0~249.9%, 250.0:Disabled	0.1/0.01	250.0	Enabled	●/●	●/●	●	-	
F451	0451	Acceleration/deceleration operation after torque limit	0:In sync with acceleration/deceleration 1:In sync with min. time	1/1	0	Disabled	●/●	-	●	-	
F452	0452	Power running stall continuous trip detection time	0.0~1.0 sec.	0.1/0.1	0.0	Enabled	●/●	-	●	●	
F453	0453	Regenerative braking stall prevention mode selection	0:Stall during regenerative braking 1:Not stall during regenerative braking	1/1	0	Enabled	●/●	-	●	●	
F454	0454	Constant output zone torque limit selection	0:Constant output limit 1:Constant torque limit	1/1	0	Disabled	●/●	●/●	●	-	
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	●/●	●/●	●	-	
F456	0456	Factory specific coefficient 1	-	1/1	0	Disabled	-	-	-	-	

[21] Adjustment parameters

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			
F458	0458	Current control proportional gain	0~100	1/1	0	Disabled	●/●	●/●	-	-	
F460	0460	Speed loop proportional gain	1~9999	1/1	12	Enabled	●/●	-	-	-	
F461	0461	Speed loop stabilization coefficient	1~9999	1/1	100	Enabled	●/●	-	-	-	
F462	0462	Moment of inertia of load 1	0~100	1/1	35	Enabled	●/●	-	●	-	
F463	0463	Second speed loop proportional gain	1~9999	1/1	12	Enabled	●/●	-	-	-	
F464	0464	Second speed loop stabilization coefficient	1~9999	1/1	100	Enabled	●/●	-	●	-	
F465	0465	Moment of inertia of load 2	0~100	1/1	35	Enabled	●/●	-	●	-	
F466	0466	Speed PI switching frequency	0.0~F Hz	1/1	0.0	Enabled	●/●	-	-	-	
F467	0467	Motor oscillation control *1	0:Disabled 1:Enabled (Low gain) 2:Enabled (Middle gain) 3:Enabled (High gain)	1/1	0	Disabled	-/-	-/-	-	●	
F468	0468	Stall prevention control switching	0: Stall prevention control 1 1: Stall prevention control 2	1/1	0	Disabled	-/-	-/-	-	●	
F469	0469	Overvoltage limit constant	0: Automatic, 1~1000ms	1/1	0	Disabled	-/-	-/-	-	●	
F470	0470	VI/II input bias	0~255	1/1	*2	Enabled	●/●	●/●	●	●	
F471	0471	VI/II input gain	0~255	1/1	*2	Enabled	●/●	●/●	●	●	
F472	0472	RR/S4 input bias	0~255	1/1	*2	Enabled	●/●	●/●	●	●	
F473	0473	RR/S4 input gain	0~255	1/1	*2	Enabled	●/●	●/●	●	●	
F474	0474	RX input bias	0~255	1/1	*2	Enabled	●/●	●/●	●	●	
F475	0475	RX input gain	0~255	1/1	*2	Enabled	●/●	●/●	●	●	
F476	0476	Optional AI1 input bias	0~255	1/1	*2	Enabled	●/●	●/●	●	●	
F477	0477	Optional AI1 input gain	0~255	1/1	*2	Enabled	●/●	●/●	●	●	
F478	0478	Optional AI2 input bias	0~255	1/1	*2	Enabled	●/●	●/●	●	●	
F479	0479	Optional AI2 input gain	0~255	1/1	*2	Enabled	●/●	●/●	●	●	
F490	0490	Factory specific coefficient 2	-	1/1	0	Disabled	-	-	-	-	
F491	0491	Auto-restart method selection	0:Searching speed method 1 (factory setting) 1:Searching speed method 2	1/1	0	Disabled	●/●	●/●	-	●	
F492	0492	V/f modulation ratio (for switching)	10 ~ 100%	1/1	100	Enabled	-/-	-/-	-	●	
F495	0495	Max output voltage modulation rate	0:Standard 1:Disabled 2:Enabled (Low gain) 3:Enabled (High gain)	1/1	0	Disabled	●/●	●/●	●	●	
F498	0498	PM motor constant 1 (d axis inductance)	0~100%	0.1/0.1	10.0	Disabled	-	-	●	-	
F499	0499	PM motor constant 2 (q axis inductance)	0~100%	0.1/0.1	10.0	Disabled	-	-	●	-	

*1:The parameter enabled V/F control mode (P₁=0, i, 5).

*2: ⇒ Settings vary from unit to unit. Even if ξ γ P 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/f constant	User setting
							Speed control	Torque control			
F500	0500	Acceleration time 2	0.1~6000 sec.	0.1/0.1 *1	Depends on capacity	Enabled	●/●	-	●	●	
F501	0501	Deceleration time 2	0.1~6000 sec.	0.1/0.1 *1	Depends on capacity	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	Panel acceleration/deceleration 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	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 *1	Depends on capacity	Enabled	●/●	-	●	●	
F511	0511	Deceleration time 3	0.1~6000 sec.	0.1/0.1 *1	Depends on capacity	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 *1	Depends on capacity	Enabled	●/●	-	●	●	
F515	0515	Deceleration time 4	0.1~6000 sec.	0.1/0.1 *1	Depends on capacity	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: Changing the parameter ξ YP 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/f constant	User setting
							Speed control	Torque control			
F520	0520	Pattern operation selection	0: Disabled 1: Enabled (setting in units of seconds) 2: Enabled (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: Successive	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: Successive	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	●/●	-	●	●	
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	●/●	-	●	●	

[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			
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	●/●	-	●	●	
F556	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] for communication device

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			
F576	0576	IP address setting method	0~2	1/1	0	Enabled	●/●	●/●	●	●	
F577	0577	IP card Data1	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F578	0588	IP card Data2	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F579	0589	IP card Data3	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F580	0580	IP card Data4	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F581	0581	Subnet mask Data1	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F582	0582	Subnet mask Data2	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F583	0583	Subnet mask Data3	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F584	0584	Subnet mask Data4	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F585	0585	IP gate1 Data 1	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F586	0586	IP gate1 Data 2	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F587	0587	IP gate1 Data 3	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F588	0588	IP gate1 Data 4	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F589	0589	IP master Data 1	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F590	0590	IP master Data 2	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F591	0591	IP master Data 3	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F592	0592	IP master Data 4	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F593	0593	IO scan permission	0~1	1/1	0	Enabled	●/●	●/●	●	●	
F594	0594	Communication time-out (Modbus)	0.0~60.0sec.	0.1/0.1	0	Enabled	●/●	●/●	●	●	

[25] Protection functions

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	0~164%, 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 mode 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	0.0~60.0Hz	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:Disabled 1:Enabled	1/1	1	Disabled	●/●	●/●	●	●	
F609	0609	Low current detection 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	●/●	●/●	●	●	
F613	0613	Selection of short circuit detection at starting	0:Each time (standard pulse) 1:Only one time after power is turned on (short pulse) 2:Each time (short pulse) 3:Only one time after power is turn on (short pulse) 4:Each time (Extremely shot-time pulse) 5:Only one time after power is turn on (Extremely shot-time 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	0.01~100.0sec.	0.01/0.01	0.01	Enabled	●/●	●/●	-	●	
F623	0623	Overspeed detection frequency upper band	0.00:Disabled, 0.01~30.00Hz	0.01/0.01	0.00	Enabled	●/●	●/●	-	●	
F624	0624	Overspeed detection frequency lower band	0.00:Disabled, 0.01~30.00Hz	0.01/0.01	0.00	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	134	Disabled	●/●	-	●	●	
F627	0627	Undervoltage trip selection	0:Disabled 1:Enabled	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	Temperature detection	0:Standard (150%~60 sec.) 1:Estimation of temperature	1/1	0	Disabled	-	-	-	-	
F632	0632	Braking release prohibition time after operation	0.00 ~ 2.50 s	0.01/0.01	0.00	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:Deselect 1:Select	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	-	-	●	-	
F643	0643	Brake-equipped motor restart condition selection	0:Default (no waiting time for frequencies of 10Hz and less) 1:Conditional (no waiting time for frequencies of 20Hz and less)	1/1	0	Disabled	●/●	●/●	●	●	
F647	0647	Control power supply backup option failure monitoring	0:Control power supply not backed up *1 1:Control power supply backed up (alarm in the event of a failure) 2:Control power supply backed up (tripping in the event of a failure)	1/1	0	Disabled	●/●	●/●	●	●	

*1:While control power is back up, the inverter will cut off the power supply and issue a 'L O F F' alarm in the event the backup device fail during operation.

[26] 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) 5:2-wire RS485 input enabled 6:4-wire RS485 input enabled 7:Communications option input enabled 8:Optional AI1 (differential current input) 9:Optional AI2 (voltage/current input) 10:UP/DOWN frequency 11:Optional RP pulse input 12:Optional high-speed pulse input 13:Optional 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 AI1	1/1	0	Enabled	●/●	-	●	●	
F665	0665	Earth detection selection	0:detection (except in stop) 1:no detection	1/1	0	Disabled	●/●	●/●	●	●	
F669	0669	Logic output/pulse output selection (OUT1)	0:Logic output 1:Pulse output	1/1	0	Disabled	●/●	●/●	●	●	

[27] 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			
R75L	0670	AM terminal meter selection	0~76 *1	1/1	2	Enabled	●/●	●/●	●	●	
R7	0671	AM terminal meter adjustment	-	1/1	-	Enabled	●/●	●/●	●	●	
F672	0672	MON1 terminal meter selection	0~76 *1	1/1	4	Enabled	●/●	●/●	●	●	
F673	0673	MON1 terminal meter adjustment	-	1/1	-	Enabled	●/●	●/●	●	●	
F674	0674	MON2 terminal meter selection	0~76 *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	Enabled	●/●	●/●	●	●	
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 5:Filter approx. 120ms 6:Filter approx. 250ms 7:Filter approx. 500ms 8:Filter approx. 1s	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	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	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 See the Instruction Manual.

[28] Operation panel parameters[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			
F700	0700	Parameter write protect selection	0:Permit 1:Prohibit	1/1	0	Enabled	●/●	●/●	●	●	
dSPV	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~FH Hz	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
F707	0707	Changing step selection 1	0.00:Disabled, 0.01~FH Hz	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
F708	0708	Changing step selection 2	0:Disabled, 1~255	1/1	0	Enabled	●/●	●/●	●	●	
F709	0709	Standard monitor hold function	0:Real time, 1:Peak hold, 2:Minimum hold	1/1	0	Enabled	●/●	●/●	●	●	
F710	0710	Standard monitor display Selection	0~80 *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	●/●	●/●	●	●	

This parameter moves to a fundamental parameter.

[28] Operation panel parameters [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		PM control	V/f constant	User setting
							Speed control	Torque control			
F 713	0713	Status monitor 3 display selection	Ditto	1/1	3	Enabled	●/●	●/●	●	●	
F 714	0714	Status monitor 4 display selection	Ditto	1/1	4	Enabled	●/●	●/●	●	●	
F 715	0715	Status monitor 5 display selection	Ditto	1/1	8	Enabled	●/●	●/●	●	●	
F 716	0716	Status monitor 6 display selection	Ditto	1/1	16	Enabled	●/●	●/●	●	●	
F 717	0717	Status monitor 7 display selection	Ditto	1/1	15	Enabled	●/●	●/●	●	●	
F 718	0718	Status monitor 8 display selection	Ditto	1/1	14	Enabled	●/●	●/●	●	●	
F 719	0719	Operation command clear selection	0:When standby terminal (ST) is OFF, clear panel operation command 1:When standby terminal (ST) is OFF, remain operation command 2:When standby terminal (ST) is OFF, undervoltage alarm occurs, clear operation command	1/1	1	Enabled	●/●	●/●	●	●	
F 721	0721	Operation panel stop pattern selection	0:Deceleration stop 1:Coast stop	1/1	0	Enabled	●/●	●/●	●	●	
F 725	0725	Operation panel torque command	-250~250%	1/0.01	0	Enabled	-	●/●	-	-	
F 727	0727	Operation panel tension torque Bias	-250~250%	1/0.01	0	Enabled	-	●/●	-	-	
F 728	0728	Operation panel load sharing Gain	0~250%	1/0.01	100	Enabled	-	●/●	-	-	
F 729	0729	Operation panel override multiplication gain	-100~100%	1/0.01	0	Enabled	●/●	-	●	●	
F 730	0730	Operation panel frequency setting prohibition selection	0:Permit 1:Prohibit	1/1	0	Enabled	●/●	●/●	●	●	
F 731	0731	LED/LCD panel cable breakage detection selection	0:Disconnection detection (error trip) 1:No disconnection detection (retain operation command)	1/1	1	Enabled	●/●	●/●	●	●	
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	Prohibition of change of $\frac{C}{R} \frac{D}{I} \frac{F}{R} \frac{D}{I}$ during operation	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 748	0748	Integral output power retention selection	0:Disabled 1:Enabled	1/1	1	Enabled	●/●	●/●	●	●	
F 749	0749	Integral output power display unit selection	0:1=1kWh 1:1=10kWh 2:1=100kWh 3:1=1000kWh 4:1=10000kWh	1/1	Depends on capacity	Enabled	●/●	●/●	●	●	
F 750	0750	EASY key function selection	0:Quick mode/standard setting mode switching function 1:Shortcut key: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	Quick registration parameter 1	0~999 *1	1/1	40 (AU4)	Enabled	●/●	●/●	●	●	
F 752	0752	Quick registration parameter 2	0~999 *1	1/1	15 (pt)	Enabled	●/●	●/●	●	●	
F 753	0753	Quick registration parameter 3	0~999 *1	1/1	11 (FH)	Enabled	●/●	●/●	●	●	
F 754	0754	Quick registration parameter 4	0~999 *1	1/1	9 (ACC)	Enabled	●/●	●/●	●	●	
F 755	0755	Quick registration parameter 5	0~999 *1	1/1	10 (dEC)	Enabled	●/●	●/●	●	●	
F 756	0756	Quick registration parameter 6	0~999 *1	1/1	600 (tHr)	Enabled	●/●	●/●	●	●	
F 757	0757	Quick registration parameter 7	0~999 *1	1/1	6 (FM)	Enabled	●/●	●/●	●	●	
F 758	0758	Quick registration parameter 8	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 759	0759	Quick registration parameter 9	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 760	0760	Quick registration parameter 10	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 761	0761	Quick registration parameter 11	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 762	0762	Quick registration parameter 12	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 763	0763	Quick registration parameter 13	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 764	0764	Quick registration parameter 14	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 765	0765	Quick registration parameter 15	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 766	0766	Quick registration parameter 16	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 767	0767	Quick registration parameter 17	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 768	0768	Quick registration parameter 18	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 769	0769	Quick registration parameter 19	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 770	0770	Quick registration parameter 20	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 771	0771	Quick registration parameter 21	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 772	0772	Quick registration parameter 22	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 773	0773	Quick registration parameter 23	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 774	0774	Quick registration parameter 24	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 775	0775	Quick registration parameter 25	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 776	0776	Quick registration parameter 26	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 777	0777	Quick registration parameter 27	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	

■ This parameter moves to a fundamental parameter.
*1: The communication number of the parameter is used for this setting.

[28] Operation panel parameters [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	V/f constant	User setting
							Speed control	Torque control			
F 778	0778	Quick registration parameter 28	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 779	0779	Quick registration parameter 29	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 780	0780	Quick registration parameter 30	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 781	0781	Quick registration parameter 31	0~999 *1	1/1	999	Enabled	●/●	●/●	●	●	
F 782	0782	Quick registration parameter 32	0~999 *1	1/1	50 (PSEL)	Enabled	●/●	●/●	●	●	
F 784	0784	MAC address Data1	0~255	1/1	0	-*2	●/●	●/●	●	●	
F 785	0785	MAC address Data2	0~255	1/1	0	-*2	●/●	●/●	●	●	
F 786	0786	MAC address Data3	0~255	1/1	0	-*2	●/●	●/●	●	●	
F 787	0787	MAC address Data4	0~255	1/1	0	-*2	●/●	●/●	●	●	
F 788	0788	MAC address Data5	0~255	1/1	0	-*2	●/●	●/●	●	●	
F 789	0789	MAC address Data6	0~255	1/1	0	-*2	●/●	●/●	●	●	
F 792	0792	Device name Data1	0000~FFFF	1/1	0	-*2	●/●	●/●	●	●	
F 793	0793	Device name Data2	0000~ FFFF	1/1	0	-*2	●/●	●/●	●	●	
F 794	0794	Device name Data3	0000~ FFFF	1/1	0	-*2	●/●	●/●	●	●	
F 795	0795	Device name Data4	0000~ FFFF	1/1	0	-*2	●/●	●/●	●	●	
F 796	0796	Device name Data5	0000~ FFFF	1/1	0	-*2	●/●	●/●	●	●	
F 797	0797	Device name Data6	0000~ FFFF	1/1	0	-*2	●/●	●/●	●	●	
F 798	0798	Device name Data7	0000~ FFFF	1/1	0	-*2	●/●	●/●	●	●	
F 799	0799	Device name Data8	0000~ FFFF	1/1	0	-*2	●/●	●/●	●	●	

*1: The communication number of the parameter is used for this setting. *2: Read only

[29] Communication 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			
F 800	0800	communication speed (2-wire RS485)	0:9600 bps 1:19200 bps 2:38400 bps	1/1	1	Enabled	●/●	●/●	●	●	
F 801	0801	Parity (2-wireRS485)	0:Non parity 1:Even parity, 2:Odd parity	1/1	1	Enabled	●/●	●/●	●	●	
F 802	0802	Inverter number (common)	0~247	1/1	0	Enabled	●/●	●/●	●	●	
F 803	0803	Communications time-out time (common to 2-wire RS485 and 4-wire RS485)	0:OFF, 1~100 sec.	1/1	0	Enabled	●/●	●/●	●	●	
F 804	0804	Communications time-out action (common to 2-wire RS485 and 4-wire RS485)	0~8	1/1	8	Enabled	●/●	●/●	●	●	
F 805	0805	Send waiting time (2-wire RS485)	0.00:Default, 0.01~2.00 sec.	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
F 806	0806	Master/slave setting for inverter-to-inverter communications (2-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	●/●	●/●	●	●	
F 807	0807	Protocol selection (2-wire RS485)	0:TOSHIBA 1:MODBUS	1/1	0	Enabled	●/●	●/●	●	●	
F 808	0808	Communication1 time-out condition Selection	0:Disconnection detection 1:When communication mode enable 2:1+Driving operation	1/1	0	Enabled	●/●	●/●	●	●	
F 810	0810	Frequency point selection	0:Disabled 1:2-wire RS485 2:4-wire RS485 3:Communication add option	1/1	0	Enabled	●/●	-	●	●	
F 811	0811	Point 1 setting	0~100%	1/1	0	Enabled *2	●/●	-	●	●	
F 812	0812	Point 1 frequency	0.0~FH Hz	0.1/0.01	0.0	Enabled *2	●/●	-	●	●	
F 813	0813	Point 2 setting	0~100%	1/1	100	Enabled *2	●/●	-	●	●	
F 814	0814	Point 2 frequency	0.0~FH Hz	0.1/0.01	*1	Enabled *2	●/●	-	●	●	
F 815	0815	Address monitor (Modbus puls)	1~64	1/1	1	-*3	●/●	●/●	●	●	
F 816	0816	Command selection (Modbus puls)	0:Prohibition,1:Prohibition	1/1	0	Enabled	●/●	●/●	●	●	
F 817	0817	Number of command (Modbus puls)	0~8	1/1	0	Enabled	●/●	●/●	●	●	
F 818	0818	Number of monitors (Modbus puls)	0~8	1/1	0	Enabled	●/●	●/●	●	●	
F 819	0819	Command station(Modbus puls)	0~64	1/1	0	Enabled	●/●	●/●	●	●	
F 820	0820	Communication speed (4-wire RS485)	0:9600 bps 1:19200 bps 2:38400 bps	1/1	1	Enabled	●/●	●/●	●	●	
F 821	0821	Baud rate (Ethernet)	0:Automatic detection 1:10Mbps Full 2:10Mbps Half 3:100Mbps Full 4:100Mbps Half	1/1	0	Enabled	●/●	●/●	●	●	
F 822	0822	Baud rate monitor right port (Ethernet)	0:Automatic detection 1:10Mbps Full 2:10Mbps Half 3:100Mbps Full 4:100Mbps Half	1/1	-	-	●/●	●/●	●	●	
F 823	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: Inverter with a model number ending with -WN1: 60.0 -WP1: 50.0

*2: Effective when a command value is sent by communication. *3: Read only

[29] Communication function [2/3]

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			
F824	0824	(Reservation)	0:- 1:- 2:- 3:-	1/1	0	Enabled	●/●	●/●	●	●	
F825	0825	Send waiting time (4-wire RS485)	0.00:Default, 0.01~2.00 sec.	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
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	●/●	●/●	●	●	
F827	0827	Parity (4-wireRS485)	0:No parity 1:Even parity 2:Odd parity	1/1	1	Enabled	●/●	●/●	●	●	
F829	0829	Protocol selection (4-wire RS485)	0:TOSHIBA 1:MODBUS	1/1	0	Enabled	●/●	●/●	●	●	
F830	0830	Communicationoption (DeviceNet/ PROFIBUS) setting 1	0~7	1/1	0	Enabled	●/●	●/●	●	●	
F831	0831	Communicationoption (DeviceNet/ PROFIBUS) setting 2	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F832	0832	Communicationoption (DeviceNet/ PROFIBUS) setting 3	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F833	0833	Communicationoption (DeviceNet/ PROFIBUS) setting 4	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F834	0834	Communicationoption (DeviceNet/ PROFIBUS) setting 5	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F835	0835	Communicationoption (DeviceNet/ PROFIBUS) setting 6	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F836	0836	Communicationoption (DeviceNet/ PROFIBUS) setting 7	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F837	0837	Communicationoption (DeviceNet/ PROFIBUS) setting 8	0000~FFFF	1/1	0	Enabled	●/●	●/●	●	●	
F838	0838	Communication option (DeviceNet/ PROFIBUS) setting 9	0000~FFFF	1/1	0	Enabled	●/●	●/●	●	●	
F841	0841	Communicationoption (DeviceNet/ PROFIBUS) setting 8	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F842	0842	Communicationoption (DeviceNet/ PROFIBUS) setting 9	0000~FFFF	1/1	0000	Enabled	●/●	●/●	●	●	
F843	0843	Communicationoption (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	●/●	●/●	●	●	
F847	0847	Communication option (DeviceNet/ PROFIBUS) setting 15	0000~FFFF	1/1	0	Enabled	●/●	●/●	●	●	
F848	0848	Communication option (DeviceNet/ PROFIBUS) setting 16	0000~FFFF	1/1	0	Enabled	●/●	●/●	●	●	
F849	0849	Communication2 time-out condition selection	0:Disconnection detection 1:When communication mode enable 2:1+Driving operation	1/1	0	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 <i>CRd, FRd</i>) 1:None (continued operation) 2:Deceleration stop 3:Coast stop 4:Network error (<i>Err B</i> trip) 5:Preset speed operation (by <i>F852</i> 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	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F854	0854	Communication option speed switch monitor DeviceNet/CC-Link	0~255	1/1	0	Enabled	●/●	●/●	●	●	
F856	0856	Motor pairs of poles for communication	1:2Poles 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	●/●	●/●	●	●	
F870	0870	Block write data 1	0:Disabled 1:Command information 1 2:Command information 2 3:Frequency command 4:Terminal board output data 5:Communication analog data 6:Rotational speed instruction	1/1	0	Enabled	●/●	●/●	●	●	
F871	0871	Block write data 2	Ditto	1/1	0	Enabled	●/●	●/●	●	●	

[29] Communication 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	V/f constant	User setting
							Speed control	Torque control			
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:Speed feedback frequency 14:Torque 15:MY monitor 1 16:MY monitor 2 17:MY monitor 3 18:MY monitor 4 19:Free notes 20:Rotational speed	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	●/●	●/●	●	●	
F898	0898	Error reset mode selection (for communication option)	0:Only reset trip if the requirement is from communication option, but reset all if the requirement is from the others. 1:Reset all 2:Only reset trip	1/1	1	Disabled	●/●	●/●	●	●	
F899	0899	Network option reset setting	0:None 1:Reset option circuit board and inverter	1/1	0	Disabled	●/●	●/●	●	●	

[30] 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:- 4:RES terminal 5:S1 terminal 6:S2 terminal 7:S3 terminal 8:RR/S4 terminal 9:L1 terminal 10:L2 terminal 11:L3 terminal 12:L4 terminal 13:L5 terminal 14:L6 terminal 15:L7 terminal 16:L8 terminal 17:B12 terminal 18:B13 terminal 19:B14 terminal 20:B15 terminal 21:Virtual input terminal 1 22:Virtual input terminal 2 23:Virtual input terminal 3 24:Virtual input terminal 4 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 12	0:NOP (not operation) 1:ST (move) 2:STN 3:AND (logical product) 4:ANDN 5:OR (logical sum) 6:ORN 7:EQ (equal) 8:NE (not equal) 9:GT (greater than) 10:GE (greater or equal) 11:LT (less than) 12:LE (less or equal) 13:ASUB (absolute) 14:ON (on delay timer) 15:OFF (off delay timer) 16:COUNT 1 (counter 1) 17:COUNTR 2 (counter 2) 18:HOLD (hold) 19:SET (set) 20:RESET (reset) 21:CLR 22:CLRn	1/1	0	Disabled	●/●	●/●	●	●	
F902	0902	Input function target 12	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	
F903	0903	Input function command 13	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	●/●	●/●	●	●	

[30] 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		PM control	V/f constant	User setting
							Speed control	Torque control			
F906	0906	Input function target 21	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	
F907	0907	Input function command 22	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 23	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 32	Same as F901	1/1	0	Disabled	●/●	●/●	●	●	
F914	0914	Input function target 32	Same as F900	1/1	0	Disabled	●/●	●/●	●	●	
F915	0915	Input function command 33	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	0.0~200.0%	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
F919	0919	My output percent data 2	0.0~200.0%	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
F920	0920	My output percent data 3	0.0~200.0%	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
F921	0921	My output percent data 4	0.0~200.0%	0.01/0.01	0.00	Enabled	●/●	●/●	●	●	
F922	0922	My output percent data 5	0.0~200.0%	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 42	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 43	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 52	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 53	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 61	Same as F900	1/1	0	Enabled	●/●	●/●	●	●	
F948	0948	Input function command 62	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 63	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 72	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 73	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:Disabled 1:VI/II 2:RR/S4 3:RX 4:Optional AI1+, Optional AI1- 5:Optional AI2 6:Internal memory1	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 (wb) 6:OC stall (F601) 7:Thermal protection (tHr) 8:Speed loop P gain (F450) 9:Drooping gain (F320) 10:PID P gain (F362)	1/1	0	Disabled	●/●	●/●	●	●	
F962	0962	Analog input function target 21	0:Disabled 1:VI/II 2:RR/S4 3:RX 4:Optional AI1+, Optional AI1- 5:Optional AI2 6:Internal memory2	1/1	0	Enabled	●/●	●/●	●	●	

[30] 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	V/f constant	User setting
							Speed control	Torque control			
F 9 6 4	0964	Analog function assigned object 21	0~10	1/1	0	Disabled	●/●	●/●	●	●	
F 9 6 5	0965	Monitor output function target 11	2000~2099:FD00~FD99 3000~3099:FE00~FE99	1/1	2000	Enabled	●/●	●/●	●	●	
F 9 6 6	0966	Monitor output function command 11	0:Normal monitor, 1:Max. value, 2:Min. value	1/1	0	Enabled	●/●	●/●	●	●	
F 9 6 7	0967	Monitor output function target 21	2000~2099:FD00~FD99 3000~3099:FE00~FE99	1/1	2000	Enabled	●/●	●/●	●	●	
F 9 6 8	0968	Monitor output function command 21	0:Normal monitor, 1:Max. value, 2:Min. value	1/1	0	Enabled	●/●	●/●	●	●	
F 9 6 9	0969	Monitor output function target 31	2000~2099:FD00~FD99 3000~3099:FE00~FE99	1/1	2000	Enabled	●/●	●/●	●	●	
F 9 7 0	0970	Monitor output function command 31	0:Normal monitor, 1:Max. value, 2:Min. value	1/1	0	Enabled	●/●	●/●	●	●	
F 9 7 1	0971	Monitor output function target 41	2000~2099:FD00~FD99 3000~3099:FE00~FE99	1/1	2000	Enabled	●/●	●/●	●	●	
F 9 7 2	0972	Monitor output function command 41	0:Normal monitor, 1:Max. value, 2:Min. value	1/1	0	Enabled	●/●	●/●	●	●	
F 9 7 3	0973	Virtual input terminal selection 1	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 9 7 4	0974	Virtual input terminal selection 2	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 9 7 5	0975	Virtual input terminal selection 3	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 9 7 6	0976	Virtual input terminal selection 4	0~155 *1	1/1	0	Disabled	●/●	●/●	●	●	
F 9 7 7	0977	My function selection	0:Disabled 1:My function + permission signal 2:My function always ON	1/1	0	Disabled	●/●	●/●	●	●	

*1: ⇒ For the adjustment range See the Instruction Manual

[31] Traversir function

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 9 8 0	0980	Traverse selection	0:Disabled 1:Enabled	1/1	0	Disabled	●/●	-	●	●	
F 9 8 1	0981	Traverse acceleration time	0.1~120.0 sec.	0.1/0.1	25.0	Enabled	●/●	-	●	●	
F 9 8 2	0982	Traverse deceleration time	0.1~120.0 sec.	0.1/0.1	25.0	Enabled	●/●	-	●	●	
F 9 8 3	0983	Traverse step	0.0~25.0%	0.1/0.1	10.0	Enabled	●/●	-	●	●	
F 9 8 4	0984	Traverse jump step	0.0~50.0%	0.1/0.1	10.0	Enabled	●/●	-	●	●	

Standard default settings classified by inverter model (capacity)

The 'depending on capacity/type' in default setting of parameter list is described in next table

Inverter type	Torque boost u _b F172 F176 F180	Base frequency voltage u _L F171 F175 F179	Acc/dec time ACC/DEC F500/F501 F510/F511 F514/F515	PWM carrier frequency CF	Dynamic braking resistance Pbr	Allowable continuous braking resistance PbCP	Carrier frequency control mode selection F316	Inverte side switching waiting time F356	Motor rated capacity F405	Motor rated current F406	Motor rated rotational speed F407 *1	Motor constant1 (torque boost) F410	Motor constant2 (no load current) F411	Motor constant3 (leak inductance) F412	Motor constant4 (rated slip) F413	Displauit selection for integral output power F749
VFAS1-2004PL	8.0	230	10.0	12.0	200.0	0.12	1	0.57	0.40	2.0	1680	7.8	6.1	120	6.67	0
VFAS1-2007PL	8.0	230	10.0	12.0	200.0	0.12	1	0.57	0.75	3.4	1690	7.3	5.4	100	6.11	0
VFAS1-2015PL	6.0	230	10.0	12.0	75.0	0.12	1	0.57	1.50	6.2	1690	7.1	4.5	70	6.11	0
VFAS1-2022PL	6.0	230	10.0	12.0	75.0	0.12	1	0.57	2.20	8.9	1680	5.9	4.1	70	6.67	0
VFAS1-2037PL	6.0	230	10.0	12.0	40.0	0.12	1	0.67	3.70	14.8	1690	4.9	3.6	80	6.11	1
VFAS1-2055PL	4.0	230	10.0	12.0	20.0	0.24	1	0.87	5.50	21.0	1730	3.9	3.4	70	3.89	1
VFAS1-2075PL	4.0	230	10.0	12.0	15.0	0.44	1	0.87	7.50	28.2	1730	3.4	3.3	70	3.89	1
VFAS1-2110PM	3.0	230	10.0	12.0	10.0	0.66	1	1.07	11.0	40.6	1730	2.8	2.7	60	3.89	1
VFAS1-2150PM	3.0	230	10.0	12.0	7.5	0.88	1	1.07	15.0	54.6	1730	2.5	2.7	60	3.89	1
VFAS1-2185PM	3.0	230	30.0	4.0	7.5	0.88	1	1.37	18.5	68.0	1750	2.6	2.7	70	2.78	1
VFAS1-2220PM	3.0	230	30.0	4.0	3.3	1.76	1	1.37	22.0	80.0	1750	2.4	2.7	70	2.78	1
VFAS1-2300PM	3.0	230	30.0	4.0	3.3	1.76	1	1.37	30.0	108.0	1745	2.2	2.6	70	3.06	1
VFAS1-2370PM	3.0	230	30.0	4.0	2.0	2.20	1	1.37	37.0	134.0	1750	1.8	2.6	70	2.78	2
VFAS1-2450PM	3.0	230	30.0	4.0	2.0	2.20	1	1.37	45.0	160.0	1750	1.7	2.6	60	2.78	2
VFAS1-2550P	3.0	230	30.0	2.5	2.0	2.20	1	1.87	55.0	196.0	1755	1.6	2.4	70	2.50	2
VFAS1-2750P	2.0	230	60.0	2.5	1.7	3.40	1	2.37	75.0	258.0	1775	1.5	2.8	50	1.39	2
VFAS1-4007PL	8.0	*2	10.0	12.0	200.0	0.12	1	0.57	0.75	1.7	1690	7.3	5.4	100	6.11	0
VFAS1-4015PL	6.0	*2	10.0	12.0	200.0	0.12	1	0.57	1.50	3.1	1690	7.1	4.5	60	6.11	0
VFAS1-4022PL	6.0	*2	10.0	12.0	200.0	0.12	1	0.57	2.20	4.5	1680	5.9	4.1	70	6.67	0
VFAS1-4037PL	6.0	*2	10.0	12.0	160.0	0.12	1	0.67	3.70	7.4	1690	4.9	3.6	70	6.11	1
VFAS1-4055PL	4.0	*2	10.0	12.0	80.0	0.24	1	0.87	5.50	10.5	1730	3.9	3.4	70	3.89	1
VFAS1-4075PL	4.0	*2	10.0	12.0	60.0	0.44	1	0.87	7.50	14.1	1730	3.4	3.3	70	3.89	1
VFAS1-4110PL	4.0	*2	10.0	12.0	40.0	0.66	1	1.07	11.0	20.3	1730	2.8	2.7	60	3.89	1
VFAS1-4150PL	3.0	*2	10.0	12.0	30.0	0.88	1	1.07	15.0	27.3	1730	2.5	2.7	60	3.89	1
VFAS1-4185PL	3.0	*2	30.0	4.0	30.0	0.88	3	1.37	18.5	34.0	1750	2.6	2.7	70	2.78	1
VFAS1-4220PL	3.0	*2	30.0	4.0	15.0	1.76	3	1.37	22.0	40.0	1750	2.4	2.7	70	2.78	1
VFAS1-4300PL	3.0	*2	30.0	4.0	15.0	1.76	3	1.37	30.0	54.0	1745	2.2	2.6	70	3.06	1
VFAS1-4370PL	3.0	*2	30.0	4.0	8.0	1.76	3	1.37	37.0	67.0	1750	1.8	2.7	70	2.78	2
VFAS1-4450PL	3.0	*2	30.0	4.0	8.0	1.76	3	1.37	45.0	80.0	1750	1.7	2.6	60	2.78	2
VFAS1-4550PL	3.0	*2	30.0	4.0	8.0	1.76	3	1.37	55.0	98.0	1755	1.6	2.4	70	2.50	2
VFAS1-4750PL	2.0	*2	60.0	4.0	8.0	1.76	3	1.37	75.0	129.0	1775	1.5	2.8	50	1.39	2
VFAS1-4900PC	2.0	*2	60.0	2.5	3.7	7.40	3	1.37	90.0	153.0	1775	1.3	2.6	50	1.39	2
VFAS1-4110KPC	2.0	*2	60.0	2.5	3.7	7.40	3	1.37	110.0	183.0	1775	1.5	2.1	30	1.39	2
VFAS1-4132KPC	2.0	*2	60.0	2.5	3.7	7.40	3	1.37	132.0	217.0	1765	0.7	2.0	40	1.94	2
VFAS1-4160KPC	1.5	*2	60.0	2.5	3.7	7.40	3	1.37	160.0	271.0	1765	0.6	2.0	40	1.94	2
VFAS1-4200KPC	1.5	*2	60.0	2.5	1.9	8.70	3	1.37	200.0	333.0	1765	0.6	2.0	40	1.94	2
VFAS1-4220KPC	1.5	*2	60.0	2.5	1.9	8.70	3	1.37	220.0	371.0	1765	0.6	2.0	40	1.94	2
VFAS1-4280KPC	1.0	*2	60.0	2.5	1.4	14.00	3	1.37	280.0	464.0	1765	0.6	2.0	40	1.94	2
VFAS1-4355KPC	1.0	*2	60.0	2.5	0.9	17.40	3	1.37	355.0	614.0	1765	0.6	2.0	30	1.94	3
VFAS1-4400KPC	1.0	*2	60.0	2.5	0.7	28.00	3	1.37	400.0	691.0	1765	0.6	2.0	30	1.94	3
VFAS1-4500KPC	0.5	*2	60.0	2.5	0.7	28.00	3	1.37	500.0	830.0	1765	0.6	2.0	30	1.94	3

*1: Factory default settings when the base frequency (u_L) is set at 60Hz (50Hz)

*2: Inverter with a model number ending with -WN1: 460 -WP1: 400