

11

Table of parameters

11.1 Frequency setting parameter

Title	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running ^{*6}	User setting	Reference
FC	Panel run frequency	LL - UL	Hz	0.1/0.01	0.0	Y		[4. 3. 1]

*1 Parameter values vary depending on the capacity. For details, refer to [11. 6].

*2 Depending on the setup menu. Refer to [11. 10].

*3 For details on the analog output and monitor output function, refer to [11. 7].

*4 Refer to section [11. 8] for details about the input terminal function.

*5 Refer to section [11. 9] for details about the output terminal function.

*6 Y: Writable N: Not writable

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11.2 Basic parameter

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
AUH	-	History function	-	-	-	0	-		[4. 2. 1]
AUF	0093	Guidance function	0: - 1: Embedded Ethernet setting 2: Preset speed operation 3: Analog frequency command 4: Motor 1, 2 switching 5: Motor parameter 6: PM motor parameter	-	-	0	N		[4. 2. 1]
AUA	0090	Application easy setting	0: - 1: Initial easy setting 2: Conveyor 3: Material handling 4: Hoisting 5: Fan 6: Pump 7: Compressor	-	-	0	N		-
AUE	0032	Eco-standby power setting	0: - +1: Embedded Ethernet OFF	-	-	0	N		[5. 3. 1]
AUL	0094	Multi-rating select	0: - 1: - 2: ND rating (120%-60s) (0 after execution) 3: HD rating (150%-60s) (0 after execution) 4 - 8: -	-	-	0	N		[1. 2] [5. 3. 2]
AU1	0000	Automatic Acc/Dec	0: Disabled 1: Automatic Acc/Dec 2: Automatic Acc only	-	-	0	N		[5. 3. 3]
AU2	0001	Torque boost macro	0: Disabled 1: Automatic torque boost + offline auto-tuning 2: Vector control 1 + offline auto-tuning 3: Energy savings + offline auto-tuning	-	-	0	N		[5. 3. 4] [5. 3. 5] [6. 23. 1]
CMOd	0003	Run command select	0: Terminal 1: Operation panel, Extension panel 2: Embedded Ethernet 3: RS485 communication (connector 1) 4: RS485 communication (connector 2) 5: Communication option	-	-	0	N		[4. 3. 1] [4. 4. 1] [5. 2. 1]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
FMOd	0004	Frequency command select 1	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5: Terminal AI5 (option) 6 - 9: - 10: Touch wheel 1 (power off or press OK to save) 11: Touch wheel 2 (press OK to save) 12: Sr0 13,14: - 15: Terminal Up/Down frequency 16: Pulse train 17: High resolution pulse train (option) 18,19: - 20: Embedded Ethernet 21: RS485 communication (connector 1) 22: RS485 communication (connector 2) 23: Communication option	-	-	1	N		[4. 3. 1] [4. 4. 1] [5. 2. 1] [5. 4. 1] [7. 3. 2] [7. 3. 3] [7. 3. 4]
Pt	0015	V/f Pattern	0: V/f constant 1: Variable torque 2: Automatic torque boost 3: Vector control 1 4: Energy savings 5: Dynamic energy savings (for fan and pump) 6: PM motor control 7: V/f 5-point setting 8: - 9: Vector control 2 (speed / torque) 10: PG feedback control 11: PG feedback vector control (speed / torque) 12: -	-	-	0	N		[5. 3. 4] [5. 3. 5] [6. 23. 1] [6. 23. 2]
vb	0016	Manual torque boost 1	0.00 - 30.00	%		*1	Y		[5. 3. 6]
vL	0014	Base frequency 1	15.0 - 590.0	Hz		50.0 / 60.0 *2	Y		[5. 2. 2]
vLv	0409	Base frequency voltage 1	240V class: 50-330V 480V class: 50-660V	V		*2	Y		[5. 2. 2]
FH	0011	Maximum frequency	30.0 - 590.0	Hz		*2	N		[5. 2. 3]
UL	0012	Upper limit frequency	0.0 - FH	Hz		50.0 / 60.0 *2	Y		[5. 2. 3]
LL	0013	Lower limit frequency	0.0 - UL	Hz		0.0	Y		[5. 2. 3] [6. 9]
ACC	0009	Acceleration time 1	0.0 - 6000 (600.0)	s		*1	Y		[5. 2. 4] [5. 3. 3] [6. 27. 2]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
dEC	0010	Deceleration time 1	0.0 - 6000 (600.0)	s		*1	Y		[5. 2. 4] [5. 3. 3] [6. 27. 2]
Sr0	0030	Preset speed 0	LL - UL	Hz		0.0	Y		[5. 3. 7]
Sr1	0018	Preset speed 1	LL - UL	Hz		0.0	Y		[4. 4. 3] [5. 3. 7] [6. 28]
Sr2	0019	Preset speed 2	LL - UL	Hz		0.0	Y		
Sr3	0020	Preset speed 3	LL - UL	Hz		0.0	Y		
Sr4	0021	Preset speed 4	LL - UL	Hz		0.0	Y		[5. 3. 7] [6. 28]
Sr5	0022	Preset speed 5	LL - UL	Hz		0.0	Y		
Sr6	0023	Preset speed 6	LL - UL	Hz		0.0	Y		
Sr7	0024	Preset speed 7	LL - UL	Hz		0.0	Y		
FPId	0025	PID1 set value	F368 - F367	Hz		0.0	Y		[5. 3. 8] [6. 21]
Fr	0008	Panel Fwd/Rev run select	0: Fwd run 1: Rev run 2: Fwd run (switchable F/R by panel) 3: Rev run (switchable F/R by panel)	-	-	0	Y		[4. 3. 2] [5. 3. 9]
tHrA	0031	Motor overload protection current 1	Depending on capacity *1	A		*1	Y		[5. 2. 5]
OLM	0017	Motor overload protection characteristic	0: Standard motor, OL2, No stall 1: Standard motor, OL2, Stall 2: Standard motor, No OL2 trip, No stall 3: Standard motor, No OL2 trip, Stall 4: Constant torque motor, OL2, No stall 5: Constant torque motor, OL2, Stall 6: Constant torque motor, No OL2 trip, No stall 7: Constant torque motor, No OL2 trip, Stall	-	-	0	Y		[5. 2. 5]
FMSL	0005	Terminal FM function	0 - 162 *3	-	-	0	Y		[5. 2. 6]
FM	0006	Terminal FM adjustment	-	-	-	-	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
tyP	0007	Default setting	0: - 1: 50Hz setting 2: 60Hz setting 3: Default setting 1 4: Clear past trips 5: Clear cumulative run time 6: Initialize type form 7: Store user settings 8: Rewrite user settings 9: Clear cumulative fan run time 10,11: - 12: Clear number of starting 13: Default setting 2 (complete initialization) 14: Clear number of external equipment starting 15: Clear cumulative overcurrent time	-	-	0	N		[5. 2. 9]
SEt	0099	Region setting check	0: Setup menu starting 1: Japan (read only) 2: Mainly North America (read only) 3: Mainly Asia (read only) 4: Mainly Europe (read only) 5: Mainly China (read only)	-	-	0	N		[5. 3. 10]
PSEL	0050	Parameter mode select	0: Setting mode at power on 1: Easy mode at power on 2: Easy mode only	-	-	0	Y		[5. 2. 8]
F1--	-	Head of F100	-	-	-	-	-		[11. 3]
F2--	-	Head of F200	-	-	-	-	-		
F3--	-	Head of F300	-	-	-	-	-		
F4--	-	Head of F400	-	-	-	-	-		
F5--	-	Head of F500	-	-	-	-	-		
F6--	-	Head of F600	-	-	-	-	-		
F7--	-	Head of F700	-	-	-	-	-		
F8--	-	Head of F800	-	-	-	-	-		
F9--	-	Head of F900	-	-	-	-	-		
A---	-	Start of A	-	-	-	-	-		[11. 4]
C---	-	Start of C	-	-	-	-	-		[11. 5]
GrU	-	Changed parameters search & edit	-	-	-	-	-		-

*1 Parameter values vary depending on the capacity. For details, refer to [11.6].

*2 Depending on the setup menu. Refer to [11.10].

*3 For details on the analog output and monitor output function, refer to [11.7].

*4 Refer to section [11.8] for details about the input terminal function.

*5 Refer to section [11.9] for details about the output terminal function.

*6 Y: writable N: Not writable

11.3 Extended parameter

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F100	0100	Low-speed signal output frequency	0.0 - FH	Hz		0.0	Y		[2. 4. 1] [6. 1. 1]
F101	0101	Reach signal specified frequency	0.0 - FH	Hz		0.0	Y		[6. 1. 3]
F102	0102	Reach signal detection band	0.0 - FH	Hz		2.5	Y		[6. 1. 2] [6. 1. 3]
F105	0105	Fwd/Rev priority of both close	0: Reverse 1: Stop	-	-	1	N		[6. 2. 1]
F107	0107	Terminal RX input voltage select	0: 0 to +10 V 1: -10 to +10 V	-	-	0	N		[6. 2. 2] [6. 6. 2] [7. 3. 1] [7. 3. 4]
F108	0108	Terminal RR input select	1: Voltage input (0-10 V) 2: - 3: - 4: PTC input 5: PT100 (2-wire) input 6: - 7: PT1000 (2-wire) input 8: - 9: KTY84 input	-	-	1	N		[6. 2. 3] [6. 6. 2] [6. 30. 19]
F110	0110	Always active function 1	0 - 177*4	-	-	6	N		[6. 3. 1] [7. 2. 1]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F111	0111	Terminal F function 1	0 - 203 ^{*4}	-	-	2	N		[7. 2. 1]
F112	0112	Terminal R function 1		-	-	4	N		
F113	0113	Terminal RES function 1		-	-	8	N		
F114	0114	Terminal S1 function 1		-	-	10	N		
F115	0115	Terminal S2 function		-	-	12	N		
F116	0116	Terminal S3 function		-	-	14	N		
F117	0117	Terminal S4 function		-	-	16	N		
F118	0118	Terminal S5 function		-	-	118	N		
F119	0119	Terminal DI11 function		-	-	0	N		
F120	0120	Terminal DI12 function		-	-	0	N		
F121	0121	Terminal DI13 function		-	-	0	N		
F122	0122	Terminal DI14 function	-	-	0	N			
F123	0123	Terminal DI15 function	-	-	0	N			
F124	0124	Terminal DI16 function	0 - 203 ^{*4}	-	-	0	N		
F127	0127	Always active function 2	0 - 177 ^{*4}	-	-	0	N		[6. 3. 1] [7. 2. 1]
F128	0128	Always active function 3		-	-	0	N		
F130	0130	Terminal FP function 1	0 - 255 ^{*5}	-	-	6	N		[7. 2. 2]
F132	0132	Terminal FL function		-	-	10	N		
F133	0133	Terminal R1 function 1		-	-	4	N		
F134	0134	Terminal R2 function		-	-	254	N		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F135	0135	Terminal R1 delay time	0.0 - 60.0	s		0.0	N		[7. 2. 2]
F136	0136	Terminal R2 delay time	0.0 - 60.0	s		0.0	N		
F137	0137	Terminal FP function 2	0 - 255*5	-	-	255	N		
F138	0138	Terminal R1 function 2		-	-	255	N		
F139	0139	Terminal FP, R1 logic select	0: F130 and F137, F133 and F138 1: F130 and F137, F133 or F138 2: F130 or F137, F133 and F138 3: F130 or F137, F133 or F138	-	-	0	N		
F140	0140	Terminal F response time	1 - 1000	ms		1	N		[7. 2. 1]
F141	0141	Terminal R response time	1 - 1000	ms		1	N		
F142	0142	Terminal RES response time	1 - 1000	ms		1	N		
F143	0143	Terminal S1 response time	1 - 1000	ms		1	N		
F144	0144	Terminal S2-S5 response time	1 - 1000	ms		1	N		
F145	0145	Terminal DI11-DI16 response time	1 - 1000	ms		1	N		
F146	0146	Terminal S4 input select	0: Digital input. 1: Pulse train input 2: PG input	-	-	0	N		[6. 6. 4] [7. 2. 1]
F147	0147	Terminal S5 input select	0: Digital input. 1: Pulse train input 2: PG input	-	-	0	N		
F148	0148	Terminal AI4 input select	1: Voltage input (0-10 V) 2: Voltage input (-10 to +10V) 3: Current input (0-20 mA) 4: PTC input 5: PT100 (2-wire) input 6: PT100 (3-wire) input 7: PT1000 (2-wire) input 8: PT1000 (3-wire) input 9: KTY84 input	-	-	1	N		[6. 2. 4] [6. 6. 2] [6. 30. 19] [7. 2. 1]
F149	0149	Terminal AI5 input select	1: Voltage input (0-10 V) 2: Voltage input (-10 to +10V) 3: Current input (0-20 mA) 4: PTC input 5: PT100 (2-wire) input 6: PT100 (3-wire) input 7: PT1000 (2-wire) input 8: PT1000 (3-wire) input 9: KTY84 input	-	-	1	N		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F151	0151	Terminal F function 2	0 - 203*4	-	-	0	N		[7. 2. 1]
F152	0152	Terminal R function 2		-	-	0	N		
F153	0153	Terminal RES function 2		-	-	0	N		
F154	0154	Terminal S1 function 2		-	-	0	N		
F155	0155	Terminal F function 3		-	-	0	N		
F156	0156	Terminal R function 3		-	-	0	N		
F157	0157	Terminal RES function 3		-	-	0	N		
F158	0158	Terminal S1 function 3		-	-	0	N		
F159	0159	Terminal DQ11 function	0 - 255*5	-	-	254	N		[7. 2. 2]
F160	0160	Terminal DQ12 function		-	-	254	N		
F161	0161	Terminal R4 function		-	-	254	N		
F162	0162	Terminal R5 function		-	-	254	N		
F163	0163	Terminal R6 function		-	-	254	N		
F170	0170	Base frequency 2	15.0 - 590.0	Hz		50.0 / 60.0 *2	Y		[6. 4]
F171	0171	Base frequency voltage 2	240V class: 50-330V 480V class: 50-660V	V		*2	Y		
F172	0172	Manual torque boost 2	0.00 - 30.00	%		*1	Y		
F173	0173	Parameter for manufacturer	-	-	-	-	-		-
F174	0174	Base frequency 3	15.0 - 590.0	Hz		50.0/ 60.0 *2	Y		[6. 4]
F175	0175	Base frequency voltage 3	240V class: 50-330V 480V class: 50-660V	V		*2	Y		
F176	0176	Manual torque boost 3	0.00 - 30.00	%		*1	Y		
F177	0177	Parameter for manufacturer	-	-	-	-	-		-
F178	0178	Base frequency 4	15.0 - 590.0	Hz		50.0/ 60.0 *2	Y		[6. 4]
F179	0179	Base frequency voltage 4	240V class: 50-330V 480V class: 50-660V	V		*2	Y		
F180	0180	Manual torque boost 4	0.00 - 30.00	%		*1	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F181	0181	Parameter for manufacturer	-	-	-	-	-		-
F182	0182	Motor overload protection current 2	Depending on capacity *1	A		*1	Y		[6. 4]
F183	0183	Motor overload protection current 3		A		*1	Y		
F184	0184	Motor overload protection current 4		A		*1	Y		
F185	0185	Stall prevention level 2	10-200 (HD) 10-160 (ND)	% (A)		150 (HD) 120 (ND)	Y		[6. 30. 2]
F190	0190	V/f 5-point VF1 frequency	0.0 - FH	Hz		0.0	N		[5. 3. 4]
F191	0191	V/f 5-point VF1 voltage	0.0 - 125.0	% (V)		0.0	N		
F192	0192	V/f 5-point VF2 frequency	0.0 - FH	Hz		0.0	N		
F193	0193	V/f 5-point VF2 voltage	0.0 - 125.0	% (V)		0.0	N		
F194	0194	V/f 5-point VF3 frequency	0.0 - FH	Hz		0.0	N		
F195	0195	V/f 5-point VF3 voltage	0.0 - 125.0	% (V)		0.0	N		
F196	0196	V/f 5-point VF4 frequency	0.0 - FH	Hz		0.0	N		
F197	0197	V/f 5-point VF4 voltage	0.0 - 125.0	% (V)		0.0	N		
F198	0198	V/f 5-point VF5 frequency	0.0 - FH	Hz		0.0	N		
F199	0199	V/f 5-point VF5 voltage	0.0 - 125.0	% (V)		0.0	N		
F200	0200	Frequency command priority select	0: FMOd/F207 (switched by TB) 1: FMOd/F207 (switched by F208)	-	-	0	Y		[5. 4. 1] [6. 6. 1]
F201	0201	RR point 1 input value	0 - 100	%		0	Y		[6. 6. 2] [7. 3. 1] [7. 3. 2]
F202	0202	RR point 1 frequency	0.0 - 590.0	Hz		0.0	Y		
F203	0203	RR point 2 input value	0 - 100	%		100	Y		
F204	0204	RR point 2 frequency	0.0 - 590.0	Hz		50.0/ 60.0 *2	Y		
F205	0205	RR point 1 rate	0 - 250	%		0	Y		[6. 6. 2]
F206	0206	RR point 2 rate	0 - 250	%		100	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F207	0207	Frequency command select 2	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5: Terminal AI5 (option) 6 - 9: - 10: Touch wheel 1 (power off or press OK to save) 11: Touch wheel 2 (press OK to save) 12: Sr0 13,14: - 15: Terminal Up/Down frequency 16: Pulse train 17: High resolution pulse train (option) 18,19: - 20: Embedded Ethernet 21: RS485 communication (connector 1) 22: RS485 communication (connector 2) 23: Communication option	-	-	3	N		[5. 4. 1] [6. 6. 1]
F208	0208	Frequency command switching frequency	0.1 - FH	Hz		0.1	Y		
F209	0209	Analog input filter	1: Disabled 2 - 1000	ms		1	Y		
F210	0210	RX point 1 input value	-100 to +100	%		0	Y		
F211	0211	RX point 1 frequency	0.0 - 590.0	Hz		0.0	Y		[6. 6. 2] [7. 3. 1] [7. 3. 4]
F212	0212	RX point 2 input value	-100 to +100	%		100	Y		
F213	0213	RX point 2 frequency	0.0 - 590.0	Hz		50.0/ 60.0 *2	Y		
F214	0214	RX point 1 rate	-250 to +250	%		0	Y		[6. 6. 2]
F215	0215	RX point 2 rate	-250 to +250	%		100	Y		
F216	0216	II point 1 input value	0 - 100	%		20	Y		
F217	0217	II point 1 frequency	0.0 - 590.0	Hz		0.0	Y		[6. 6. 2]
F218	0218	II point 2 input value	0 - 100	%		100	Y		[7. 3. 1] [7. 3. 3]
F219	0219	II point 2 frequency	0.0 - 590.0	Hz		50.0/ 60.0 *2	Y		
F220	0220	II point 1 rate	0 - 250	%		0	Y		[6. 6. 2]
F221	0221	II point 2 rate	0 - 250	%		100	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F222	0222	AI4 point 1 input value	-100 to +100	%		0	Y		[6. 6. 2] [7. 3. 1]
F223	0223	AI4 point 1 frequency	0.0 - 590.0	Hz		0.0	Y		
F224	0224	AI4 point 2 input value	-100 to +100	%		100	Y		
F225	0225	AI4 point 2 frequency	0.0 - 590.0	Hz		50.0/ 60.0 *2	Y		
F226	0226	AI4 point 1 rate	-250 to +250	%		0	Y		
F227	0227	AI4 point 2 rate	-250 to +250	%		100	Y		[6. 6. 2]
F228	0228	AI5 point 1 input value	-100 to +100	%		0	Y		[6. 6. 2] [7. 3. 1]
F229	0229	AI5 point 1 frequency	0.0 - 590.0	Hz		0.0	Y		
F230	0230	AI5 point 2 input value	-100 to +100	%		100	Y		
F231	0231	AI5 point 2 frequency	0.0 - 590.0	Hz		50.0/ 60.0 *2	Y		
F234	0234	Pulse train input point 1 input value	0 - 100	%		0	Y		[6. 6. 4]
F235	0235	Pulse train input point 1 frequency	0.0 - 590.0	Hz		0.0	Y		
F236	0236	Pulse train input point 2 input value	0 - 100	%		100	Y		
F237	0237	Pulse train input point 2 frequency	0.0 - 590.0	Hz		50.0/ 60.0 *2	Y		
F239	0239	Parameter for manufacturer	-	-	-	-	-		-
F240	0240	Start frequency	0.0 - 10.0	Hz		0.1	Y		[6. 7. 1]
F241	0241	Run frequency	0.0 - FH	Hz		0.0	Y		[6. 7. 2]
F242	0242	Run frequency hysteresis	0.0 - FH	Hz		0.0	Y		
F243	0243	End frequency	0.0 - 30.0	Hz		0.0	Y		[6. 7. 1]
F244	0244	0 Hz dead band	0.0 - 5.0	Hz		0.0	Y		[6. 7. 3]
F249	0249	DC braking carrier frequency	1.0 - 16.0	kHz		*1	Y		[6. 8. 1]
F250	0250	DC braking frequency	0.0 - FH	Hz		0.0	Y		[6. 8. 1] [6. 8. 3]
F251	0251	DC braking current	0 - 100	%		50	Y		[6. 8. 1] [6. 30. 4]
F252	0252	DC braking time	0.0 - 25.5	s		1.0	Y		[6. 8. 1] [6. 8. 3]
F253	0253	Fwd/Rev DC braking priority	0: Disabled 1: Enabled	-	-	0	Y		[6. 8. 1]
F254	0254	Motor shaft fixing control	0: Disabled 1: Enabled	-	-	0	Y		[6. 8. 2]
F255	0255	0Hz command select at stop	0: DC braking 1: 0 Hz command	-	-	0	N		[6. 8. 3]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F256	0256	Run sleep detection time	0.0: Disabled 0.1 - 600.0	s		0.0	Y		[6. 9]
F257	0257	Parameter for manufacturer	-	-	-	-	-		-
F258	0258	Parameter for manufacturer	-	-	-	-	-		-
F259	0259	Run sleep detection time at startup	0.0: Disabled 0.1 - 600.0	s		0.0	Y		[6. 9]
F260	0260	Jog frequency	F240 - 20.0	Hz		5.0	Y		[6. 10]
F261	0261	Jog stop select	0: Deceleration stop 1: Coast stop 2: DC braking stop	-	-	0	N		
F262	0262	Panel jog run	0: Disabled 1: Enabled	-	-	0	Y		
F264	0264	Terminal Up response time	0.0 - 10.0	s		0.1	Y		[6. 6. 5]
F265	0265	Terminal Up frequency step	0.0 - FH	Hz		0.1	Y		
F266	0266	Terminal Down response time	0.0 - 10.0	s		0.1	Y		
F267	0267	Terminal Down frequency step	0.0 - FH	Hz		0.1	Y		
F268	0268	Initial Up/Down frequency	LL - UL	Hz		0.0	Y		
F269	0269	Up/Down frequency rewrite	0: F268 is not changed. 1: F268 is changed after power off.	-	-	1	Y		
F270	0270	Jump frequency 1	0.0 - FH	Hz		0.0	Y		[6. 11]
F271	0271	Jump frequency 1 band	0.0 - 30.0	Hz		0.0	Y		
F272	0272	Jump frequency 2	0.0 - FH	Hz		0.0	Y		
F273	0273	Jump frequency 2 band	0.0 - 30.0	Hz		0.0	Y		
F274	0274	Jump frequency 3	0.0 - FH	Hz		0.0	Y		
F275	0275	Jump frequency 3 band	0.0 - 30.0	Hz		0.0	Y		
F287	0287	Preset speed 8	LL - UL	Hz		0.0	Y		[5. 3. 7] [6. 28]
F288	0288	Preset speed 9	LL - UL	Hz		0.0	Y		
F289	0289	Preset speed 10	LL - UL	Hz		0.0	Y		
F290	0290	Preset speed 11	LL - UL	Hz		0.0	Y		
F291	0291	Preset speed 12	LL - UL	Hz		0.0	Y		
F292	0292	Preset speed 13	LL - UL	Hz		0.0	Y		
F293	0293	Preset speed 14	LL - UL	Hz		0.0	Y		
F294	0294	Preset speed 15 / Forced run speed	LL - UL	Hz		0.0	Y		[5. 3. 7] [6. 12. 2] [6. 28] [6. 31]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F295	0295	Bumpless	0: Disabled 1: Enabled	-	-	0	Y		[6. 13]
F297	0297	Parameter for manufacturer	-	-	-	-	-		-
F298	0298	Parameter for manufacturer	-	-	-	-	-		-
F300	0300	Carrier frequency	Depending on capacity *1	kHz		*1	Y		[2. 4. 1] [2. 4. 3] [6. 14]
F301	0301	Auto-restart	0: Disabled 1: Power failure 2: Terminal ST On/Off 3: Terminal ST On/Off or power failure 4: At startup	-	-	0	N		[5. 4. 2]
F302	0302	Regenerative power ride-through	0: Disabled 1: Regenerative power ride-through 2: Deceleration stop at power failure 3: Synchronized Acc/Dec (TB) 4: Synchronized Acc/Dec (TB + power failure)	-	-	0	N		[6. 15. 2]
F303	0303	Retry	0: Disabled 1 - 10	Times		0	Y		[6. 15. 3]
F304	0304	Dynamic braking, OLR trip	0: Disabled 1: Enabled, OLR trip 2: Enabled, No OLR trip 3: Enabled (except during ST OFF), OLR trip 4: Enabled (except during ST OFF), No OLR trip 5: Enabled (except during trip), OLR trip 6: Enabled (except during trip), No OLR trip 7: Enabled (except during trip & ST OFF), OLR trip 8: Enabled (except during trip & ST OFF), No OLR trip	-	-	0	N		[6. 15. 4]
F305	0305	Overvoltage limit operation	0: Enabled 1: Disabled 2: Enabled (quick deceleration) 3: Enabled (dynamic quick deceleration)	-	-	2	N		[6. 15. 5]
F306	0306	Parameter for manufacturer	-	-	-	-	-		-

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F307	0307	Supply voltage compensation, Output voltage limitation	0: Without supply voltage compensation, Limited output voltage 1: With supply voltage compensation, Limited output voltage 2: Without supply voltage compensation, Unlimited output voltage 3: With supply voltage compensation, Unlimited output voltage	-	-	*2	N		[6. 15. 6]
F308	0308	Braking resistance	0.5 - 1000	Ω		*1	N		[6. 15. 4]
F309	0309	Braking resistor capacity	0.01 - 600.0	kW		*1	N		
F310	0310	Dec time at power failure	0.0 - 320.0	s		2.0	N		[6. 15. 2]
F311	0311	Reverse inhibited	0: Allowed 1: Rev inhibited 2: Fwd inhibited 3: - 4: -	-	-	0	N		[6. 15. 7]
F312	0312	Random switching	0: Disabled 1: Random switching 1 2: Random switching 2 3: Random switching 3	-	-	0	N		[6. 14]
F313	0313	Ridethrough time	0.0: Continuous 0.1 - 320.0	s		2.0	N		[6. 15. 2]
F314	0314	Parameter for manufacturer	-	-	-	-	-		-
F315	0315	Parameter for manufacturer	-	-	-	-	-		-
F316	0316	Carrier frequency control	0: No decrease 1: Valid decrease 2: No decrease, 480V class 3: Valid decrease, 480V class 4: No decrease with sinusoidal filter 5: Valid decrease with sinusoidal filter	-	-	*1	N		[2. 4. 1] [6. 14]
F317	0317	Synchronized stop time	0.0 - 6000	s		2.0	Y		[6. 15. 2]
F318	0318	Synchronized reach time	0.0 - 6000	s		2.0	Y		
F319	0319	Regenerative over-flux upper limit	100 - 160	%		*2	N		[6. 15. 5]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F320	0320	Droop gain	0.0 - 100.0	%		0.0	Y		[6. 16]
F321	0321	Frequency at 0% droop gain	0.0 - 320.0	Hz		0.0	Y		
F322	0322	Frequency at F320 droop gain	0.0 - 320.0	Hz		0.0	Y		
F323	0323	Droop deadband torque	0 - 100	%		10	Y		
F324	0324	Droop output filter	0.1 - 200.0	rad/s		100.0	Y		
F325	0325	Brake release wait time	0.00 - 2.50	s		0.00	N		[6. 18. 1]
F326	0326	Brake release undercurrent threshold	0 - 100	% (A)		0	Y		
F327	0327	Parameter for manufacturer	-	-	-	-	-	-	-
F328	0328	Light-load high-speed operation	0: Disabled 1: Auto speed (Fwd: up) 2: Auto speed (Rev: up) 3: Speed F330 (Fwd: up) 4: Speed F330 (Rev: up)	-	-	0	N		[6. 17]
F329	0329	Light-load high-speed learning function	0: - 1: Fwd run only 2: Rev run only	-	-	0	N		
F330	0330	Light-load high-speed automatic operation frequency	30.0 - UL	Hz		50.0/ 60.0*2	N		
F331	0331	Light-load high-speed operation switching lower-limit frequency	5.0 - UL	HZ		40.0	Y		
F332	0332	Light-load high-speed operation load detection wait time	0.0 - 10.0	s		0.5	Y		
F333	0333	Light-load high-speed operation load detection time	0.0 - 10.0	s		1.0	Y		
F334	0334	Light-load high-speed operation heavy load detection time	0.0 - 10.0	s		0.5	Y		
F335	0335	Switching load torque during power running	-250 to +250	%		50	Y		
F336	0336	Heavy-load torque during power running	-250 to +250	%		100	Y		
F337	0337	Heavy-load torque during constant speed power running	-250 to +250	%		50	Y		
F338	0338	Switching load torque during regen	-250 to +250	%		50	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F339	0339	Parameter for manufacturer	-	-	-	-	-		-
F340	0340	Creep time 1	0.00 - 10.00	s		0.00	N		[6. 18. 1]
F341	0341	Brake function	0: Disabled 1: Fwd hoisting 2: Rev hoisting 3: Horizontal operation	-	-	0	N		
F342	0342	Load torque input select	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5 - 11: - 12: F343 13 - 19: - 20: Embedded Ethernet 21: RS485 communication (connector 1) 22: RS485 communication (connector 2) 23: Communication option	-	-	12	Y		[6. 18. 1]
F343	0343	Hoisting torque bias	-250 to +250 (F342 = "12" only)	%		100	Y		
F344	0344	Lowering torque bias rate	0 - 100	%		100	Y		
F345	0345	Brake releasing time	0.00 - 10.00	s		0.05	Y		
F346	0346	Creep frequency	F240 - 20.0	Hz		3.0	N		
F347	0347	Creep time 2	0.00 - 10.00	s		0.10	Y		
F348	0348	Brake learning	0: - 1: Enabled (0 after execution)	-	-	0	N		
F349	0349	Dwell operation	0: Disabled 1: F350-F353 setting 2: Terminal input	-	-	0	N		[6. 19]
F350	0350	Acc suspended frequency	0.0 - FH	Hz		0.0	Y		
F351	0351	Acc suspended time	0.0 - 10.0	s		0.0	Y		
F352	0352	Dec suspended frequency	0.0 - FH	Hz		0.0	Y		
F353	0353	Dec suspended time	0.0 - 10.0	s		0.0	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F354	0354	Commercial power/ Inverter switching	0: Disabled 1: Switch at trip 2: Switch at F355 3: Switch at trip and at F355	-	-	0	N		[6. 20]
F355	0355	Commercial power switching frequency	0.0 - UL	Hz		50.0/ 60.0*2	Y		
F356	0356	Inverter switching wait time	0.10 - 10.00	s		*1	Y		
F357	0357	Commercial power switching wait time	0.10 - 10.00	s		0.62	Y		
F358	0358	Commercial power switching frequency continuous time	0.10 - 10.00	s		2.00	Y		
F359	0359	PID control1	0: Disabled 1: Process PID control 2: Speed PID control 3: Easy positioning PID control 4: Dancer control 5 - 10: - 11: Minus Process PID control 12: Minus Speed PID control 13: Minus Easy positioning PID control 14: Minus Dancer control	-	-	0	N		[5. 3. 8] [6. 21] [6. 22]
F360	0360	PID1 feedback input select	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5: Terminal AI5 (option) 6 - 16: - 17: High resolution pulse train (option)	-	-	0	N		[5. 3. 8]
F361	0361	PID1 filter	0.0 - 25.0	s		0.0	Y		[6. 21]
F362	0362	PID1 proportional gain	0.01 - 100.0	-		0.30	Y		[5. 3. 8] [6. 21] [6. 22]
F363	0363	PID1 integral gain	0.01 - 100.0	s ⁻¹		0.20	Y		[5. 3. 8] [6. 21]
F364	0364	PID1 deviation upper-limit	LL - UL	Hz		50.0/ 60.0*2	Y		[6. 21]
F365	0365	PID1 deviation lower-limit	LL - UL	Hz		50.0/ 60.0*2	Y		
F366	0366	PID1 differential gain	0.00 - 2.55	s		0.00	Y		[5. 3. 8] [6. 21]
F367	0367	PID1 set value upper-limit	0.0 - FH	Hz		50.0/ 60.0*2	Y		
F368	0368	PID1 set value lower-limit	0.0 - F367	Hz		0.0	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F369	0369	PID control start wait time	0 - 2400	s		0	Y		[5. 3. 8] [6. 21] [6. 22]
F370	0370	PID1 output upper-limit	LL - UL	Hz		50.0/ 60.0*2	Y		[6. 21]
F371	0371	PID1 output lower-limit	LL - UL	Hz		0.0	Y		
F372	0372	PID1 set value increase time	0.1-600.0 (Speed PID)	s		10.0	Y		
F373	0373	PID1 set value decrease time	0.1-600.0 (Speed PID)	s		10.0	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F374	0374	PID1 set value agreement detection band	0.0 - FH	Hz		2.5	Y		[6. 21]
F375	0375	PG pulses number	1 - 9999	pulse		1000	N		[6. 22]
F376	0376	PG select	0: PTI (Command) - PTI (FB) 1: PTI (Command) - Digital option (FB) 2 - 5: - 6: Digital option (Command) - Non FB 7 - 9: - 10: PTI (Command) - PTI (FB inversion) 11: PTI (Command) - Digital option (FB inversion) 12 - 15: - 16: Digital option (Command inversion) - Non FB	-	-	0	N		[6. 6. 4] [6. 22]
F377	0377	PG option disconnection detection	0: Disabled 1: Enabled	-	-	0	N		-
F378	0378	Pulse train input pulses number	1 - 9999	pps		1000	N		[6. 6. 4]
F379	0379	PG option voltage	0: 5V 1: 12V 2: 24V	-	-	0	N		-
F381	0381	Simple positioning completion range	1 - 4000	pulse		100	Y		[6. 22]
F382	0382	Hit and stop control	0: Disabled 1: Enabled 2: -	-	-	0	Y		[6. 18. 2]
F383	0383	Hit and stop frequency	0.1 - 30.0	Hz		5.0	Y		
F384	0384	Hit and stop torque limit	0 - 100	%		100	Y		-
F385	0385	Hit and stop detection time	0.0 - 25.0	s		0.3	Y		-
F386	0386	Hit and stop continuation torque limit	0 - 100	%		50	Y		-
F388	0388	PID1 output dead band	0 - 100	%		0	Y		[6. 21]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F389	0389	PID1 set value select	0: selected by FMOd/ F207 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5: Terminal AI5 (option) 6 - 11: - 12: FPId 13,14: - 15: Terminal Up/Down frequency 16: Pulse train 17: High resolution pulse train (option) 18,19: - 20: Embedded Ethernet 21: RS485 communication (connector 1) 22: RS485 communication (connector 2) 23: Communication option	-	-	0	N		[5. 3. 8] [6. 21]
F390	0390	Parameter for manufacturer	-	-	-	-	-		-
F391	0391	Sleep detection hysteresis	0.0 - UL	Hz		0.0	Y		[6. 9]
F392	0392	Wakeup deviation	0.0 - UL	Hz		0.0	Y		
F393	0393	Wakeup feedback	0.0 - UL	Hz		0.2	Y		
F394	0394	Parameter for manufacturer	-	-	-	-	-		-
F395	0395	Parameter for manufacturer	-	-	-	-	-		-
F399	0399	Parameter for manufacturer	-	-	-	-	-		-
F400	0400	Offline auto-tuning	0: - 1: Reset motor parameters (0 after execution) 2: Auto-tuning at run command (0 after execution) 3: Auto-tuning at TB ON 4: Motor parameters auto calculation (0 after execution) 5: 4+2 (0 after execution) 6: Auto-tuning at run command during TB ON 7: Auto-tuning F402 only at run command during TB ON	-	-	0	N		[6. 23. 1] [6. 23. 2]
F401	0401	Slip frequency gain	0 - 250	%		70	Y		[6. 23. 1]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F402	0402	Automatic torque boost	0.1 - 30.00	%		*1	Y		[6. 23. 1] [6. 23. 2]
F403	0403	Online auto-tuning	0: Disabled 1: Self-cooling motor auto-tuning 2: Forced air-cooling motor auto-tuning	-	-	0	N		[6. 23. 1]
F405	0405	Motor rated capacity	0.10 - 315.0	kW		*1	N		[6. 23. 1] [6. 23. 2]
F412	0412	Leakage inductance	0.0 - 25.0	%		*1	N		[6. 23. 1]
F413	0413	Exciting current coefficient	100 - 150	%		100	N		
F414	0414	Stall prevention coefficient	10 - 250	-		100	N		-
F415	0415	Motor rated current	Depending on capacity *1	A		*1	N		[6. 23. 1] [6. 23. 2]
F416	0416	Motor no load current	10 - 90	%		*1	N		[6. 23. 1]
F417	0417	Motor rated speed	100 - 64000	min ⁻¹		*2	N		[6. 23. 1] [6. 23. 2]
F418	0418	Parameter for manufacturer	-	-	-	-	-		-
F419	0419	Parameter for manufacturer	-	-	-	-	-		-
F420	0420	Torque command select	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5 - 11: - 12: F725 13 - 19: - 20: Embedded Ethernet 21: RS485 communication (connector 1) 22: RS485 communication (connector 2) 23: Communication option	-	-	2	Y		[6. 25. 1]
F421	0421	Torque command filter	0 - 1000	ms		0	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F423	0423	Tension control torque bias input	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5 - 11: - 12: F725 13 - 19: - 20: Embedded Ethernet 21: RS485 communication connector 1 22: RS485 communication connector 2 23: Communication option	-	-	0	Y		[6. 25. 3]
F424	0424	Load sharing gain input	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5 - 11: - 12: F725 13 - 19: - 20: Embedded Ethernet 21: RS485 communication connector 1 22: RS485 communication connector 2 23: Communication option	-	-	0	Y		[6. 25. 3]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F425	0425	Fwd speed limit input	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5 - 11: - 12: F426	-	-	0	Y		[6. 25. 2]
F426	0426	Fwd speed limit level	0.0 - UL	Hz		50.0/ 60.0*2	Y		
F427	0427	Rev speed limit input	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5 - 11: - 12: F428	-	-	0	Y		
F428	0428	Rev speed limit level	0.0 - UL	Hz		50.0/ 60.0*2	Y		
F430	0430	Speed limit center value input select	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5 - 11: - 12: F431	-	-	0	Y		
F431	0431	Speed limit center value	0.0 - FH	Hz		0.0	Y		
F432	0432	Speed limit band	0.0 - FH	Hz		0.0	Y		
F435	0435	Rotation direction limit during torque control	0: Fwd/Rev permit 1: Command direction permit	-	-	0	Y		[6. 25. 1]
F440	0440	Power running torque limit input select 1	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5 - 11: - 12: F441	-	-	12	Y		[6. 24. 1]
F441	0441	Power running torque limit level 1	0.0-249.9 250.0: Disabled	%		250.0	Y		[6. 24. 1] [6. 24. 3]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F442	0442	Regenerative torque limit input select 1	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5 - 11: - 12: F443	-	-	12	Y		[6. 24. 1]
F443	0443	Regenerative torque limit level 1	0.0-249.9 250.0: Disabled	%		250.0	Y		
F444	0444	Power running torque limit level 2	0.0-249.9 250.0: Disabled	%		250.0	Y		
F445	0445	Regenerative torque limit level 2	0.0-249.9 250.0: Disabled	%		250.0	Y		
F446	0446	Power running torque limit level 3	0.0-249.9 250.0: Disabled	%		250.0	Y		
F447	0447	Regenerative torque limit level 3	0.0-249.9 250.0: Disabled	%		250.0	Y		
F448	0448	Power running torque limit level 4	0.0-249.9 250.0: Disabled	%		250.0	Y		
F449	0449	Regenerative torque limit level 4	0.0-249.9 250.0: Disabled	%		250.0	Y		
F451	0451	Acc/Dec operation after stall operation	0: Acc/Dec time 1: Minimum time	-	-	0	N		
F452	0452	Stall detection time during power running	0.00 - 10.00	s		0.00	Y		[6. 24. 3]
F453	0453	Stall operation during regen	0: Enabled 1: Disabled	-	-	0	Y		[6. 24. 4]
F454	0454	Torque limit in field weakening	0: Constant power limit 1: Constant torque limit	-	-	0	N		[6. 24. 1]
F455	0455	Torque command polarity at Rev	0: Regeneration at positive torque command 1: Power running at positive torque command	-	-	0	N		[6. 25. 1]
F456	0456	Exciting forcing level	20 - 150	%		*1	N		-
F457	0457	Exciting forcing control gain	5 - 75	Hz		50	N		-
F458	0458	Current control response	0 - 100	-		0	N		[6. 26. 1]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F459	0459	Load inertia ratio	0.1 - 100.0	Times		1.0	Y		[6. 23. 1] [6. 23. 2] [6. 26. 1]
F460	0460	Speed control response 1	0.0 - 25.0	-		0.0	Y		
F461	0461	Speed control stabilization coefficient 1	0.50 - 2.50	-		1.00	Y		
F462	0462	Speed reference filter coefficient 1	0 - 100	-		35	Y		
F463	0463	Speed control response 2	0.0 - 25.0	-		0.0	Y		
F464	0464	Speed control stabilization coefficient 2	0.50 - 2.50	-		1.00	Y		
F465	0465	Speed reference filter coefficient 2	0 - 100	-		35	Y		
F466	0466	Speed control response switching frequency	0.0 - FH	Hz		0.0	Y		
F467	0467	Parameter for manufacturer	-	-	-	-	-	-	-
F468	0468	Parameter for manufacturer	-	-	-	-	-	-	-
F469	0469	Parameter for manufacturer	-	-	-	-	-	-	-
F470	0470	RR input bias	0 - 255	-	1/1	128	Y		[6. 6. 3]
F471	0471	RR input gain	0 - 255	-	1/1	128	Y		
F472	0472	RX input bias	0 - 255	-	1/1	128	Y		
F473	0473	RX input gain	0 - 255	-	1/1	128	Y		
F474	0474	II input bias	0 - 255	-	1/1	128	Y		
F475	0475	II input gain	0 - 255	-	1/1	128	Y		
F476	0476	AI4 input bias	0 - 255	-	1/1	128	Y		
F477	0477	AI4 input gain	0 - 255	-	1/1	128	Y		
F478	0478	AI5 input bias	0 - 255	-	1/1	128	Y		
F479	0479	AI5 input gain	0 - 255	-	1/1	128	Y		
F480	0480	Inertia auto-tuning	0 - 1	-		0	N		-
F481	0481	Speed command at inertia auto-tuning	10 - 100	%		25	N		-
F482	0482	Speed variation width at inertia auto-tuning	0.1 - 25.0	%		5.0	N		-
F483	0483	Number of speed variation at inertia auto-tuning	5 - 50	Times		10	N		-
F490	0490	Parameter for manufacturer	-	-	-	-	-	-	-
F491	0491	Parameter for manufacturer	-	-	-	-	-	-	-

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F495	0495	Over modulation ratio	90 - 120	%		104	N		[6. 26. 2]
F498	0498	Parameter for manufacturer	-	-	-	-	-		-
F499	0499	Parameter for manufacturer	-	-	-	-	-		-
F500	0500	Acceleration time 2	0.0 - 6000 (600.0)	s		*1	Y		[6. 27. 2]
F501	0501	Deceleration time 2	0.0 - 6000 (600.0)	s		*1	Y		
F502	0502	Acc/Dec pattern 1	0: Linear 1: S-Pattern 1 2: S-Pattern 2	-	-	0	Y		[6. 27. 1] [6. 27. 2]
F503	0503	Acc/Dec pattern 2	0: Linear 1: S-Pattern 1 2: S-Pattern 2	-	-	0	Y		[6. 27. 2]
F504	0504	Panel Acc/Dec select	1: Acc/Dec 1 2: Acc/Dec 2 3: Acc/Dec 3 4: Acc/Dec 4	-	-	1	Y		
F505	0505	Acc/Dec switching frequency 1	0.0: Disabled 0.1 - UL	Hz		0.0	Y		
F506	0506	S-Pattern range at Acc start	0 - 50	%		10	Y		[6. 27. 1] [6. 27. 2]
F507	0507	S-Pattern range at Acc completion	0 - 50	%		10	Y		
F508	0508	S-Pattern range at Dec completion	0 - 50	%		10	Y		
F509	0509	S-Pattern range at Dec start	0 - 50	%		10	Y		
F510	0510	Acceleration time 3	0.0 - 6000 (600.0)	s		*1	Y		[6. 27. 2]
F511	0511	Deceleration time 3	0.0 - 6000 (600.0)	s		*1	Y		
F512	0512	Acc/Dec pattern 3	0: Linear 1: S-Pattern 1 2: S-Pattern 2	-	-	0	Y		
F513	0513	Acc/Dec switching frequency 2	0.0: Disabled 0.1 - UL	Hz		0.0	Y		
F514	0514	Acceleration time 4	0.0 - 6000 (600.0)	s		*1	Y		
F515	0515	Deceleration time 4	0.0 - 6000 (600.0)	s		*1	Y		
F516	0516	Acc/Dec pattern 4	0: Linear 1: S-Pattern 1 2: S-Pattern 2	-	-	0	Y		
F517	0517	Acc/Dec switching frequency 3	0.0: Disabled 0.1 - UL	Hz		0.0	Y		
F519	0519	Unit of Acc/Dec time	0: - 1: 0.01 s unit (0 after execution) 2: 0.1 s unit (0 after execution)	-	-	0	N		[5. 2. 4] [6. 27. 2]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F520	0520	Pattern operation	0: Disabled 1: Enabled (seconds) 2: Enabled (minutes)	-	-	0	N		[6. 28]
F521	0521	Pattern operation continue select	0: Reset after stop 1: Continue after stop	-	-	0	N		
F522	0522	Pattern 1 repeat number	1 - 254 255: Continuous	Times	1/1	1	N		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F523	0523	Pattern 1 select 1	0: Skip 1: Sr1 2: Sr2 3: Sr3 4: Sr4 5: Sr5 6: Sr6 7: Sr7 8: F287 9: F288 10: F289 11: F290 12: F291 13: F292 14: F293 15: F294	-	-	0	N		[6. 28]
F524	0524	Pattern 1 select 2		-	-	0	N		
F525	0525	Pattern 1 select 3		-	-	0	N		
F526	0526	Pattern 1 select 4		-	-	0	N		
F527	0527	Pattern 1 select 5		-	-	0	N		
F528	0528	Pattern 1 select 6		-	-	0	N		
F529	0529	Pattern 1 select 7		-	-	0	N		
F530	0530	Pattern 1 select 8		-	-	0	N		
F531	0531	Pattern 2 repeat number	1 - 254 255: Continuous	Times		1	N		
F532	0532	Pattern 2 select 1	0: Skip 1: Sr1 2: Sr2 3: Sr3 4: Sr4 5: Sr5 6: Sr6 7: Sr7 8: F287 9: F288 10: F289 11: F290 12: F291 13: F292 14: F293 15: F294	-	-	0	N		
F533	0533	Pattern 2 select 2		-	-	0	N		
F534	0534	Pattern 2 select 3		-	-	0	N		
F535	0535	Pattern 2 select 4		-	-	0	N		
F536	0536	Pattern 2 select 5		-	-	0	N		
F537	0537	Pattern 2 select 6		-	-	0	N		
F538	0538	Pattern 2 select 7		-	-	0	N		
F539	0539	Pattern 2 select 8		-	-	0	N		
F540	0540	Operation time (1-speed)	0.1 - 5999 (Unit by F520) 6000: Continuous	s/min	0.1/0.1	5.0	Y		
F541	0541	Operation time (2-speed)		s/min	0.1/0.1	5.0	Y		
F542	0542	Operation time (3-speed)		s/min	0.1/0.1	5.0	Y		
F543	0543	Operation time (4-speed)		s/min	0.1/0.1	5.0	Y		
F544	0544	Operation time (5-speed)		s/min	0.1/0.1	5.0	Y		
F545	0545	Operation time (6-speed)		s/min	0.1/0.1	5.0	Y		
F546	0546	Operation time (7-speed)		s/min	0.1/0.1	5.0	Y		
F547	0547	Operation time (8-speed)		s/min	0.1/0.1	5.0	Y		
F548	0548	Operation time (9-speed)		s/min	0.1/0.1	5.0	Y		
F549	0549	Operation time (10-speed)		s/min	0.1/0.1	5.0	Y		
F550	0550	Operation time (11-speed)		s/min	0.1/0.1	5.0	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F551	0551	Operation time (12-speed)	0.1 - 5999 (Unit by F520) 6000: Continuous	s/min	0.1/0.1	5.0	Y		[6. 28]
F552	0552	Operation time (13-speed)		s/min	0.1/0.1	5.0	Y		
F553	0553	Operation time (14-speed)		s/min	0.1/0.1	5.0	Y		
F554	0554	Operation time (15-speed)		s/min	0.1/0.1	5.0	Y		
F560	0560	Preset speed operation style	0: Frequency only 1: With function	-	-	0	N		[5. 3. 7] [6. 12. 1]
F561	0561	Operation function (1-speed)	0: Fwd run +1: Rev run +2: Acc/Dec switching signal 1 +4: Acc/Dec 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	N		[5. 3. 7] [6. 12. 1] [6. 28]
F562	0562	Operation function (2-speed)		-	1/1	0	N		
F563	0563	Operation function (3-speed)		-	1/1	0	N		
F564	0564	Operation function (4-speed)		-	1/1	0	N		
F565	0565	Operation function (5-speed)		-	1/1	0	N		
F566	0566	Operation function (6-speed)		-	1/1	0	N		
F567	0567	Operation function (7-speed)		-	1/1	0	N		
F568	0568	Operation function (8-speed)		-	1/1	0	N		
F569	0569	Operation function (9-speed)		-	1/1	0	N		
F570	0570	Operation function (10-speed)		-	1/1	0	N		
F571	0571	Operation function (11-speed)		-	1/1	0	N		
F572	0572	Operation function (12-speed)		-	1/1	0	N		
F573	0573	Operation function (13-speed)		-	1/1	0	N		
F574	0574	Operation function (14-speed)		-	1/1	0	N		
F575	0575	Operation function (15-speed)		-	1/1	0	N		
F576	0576	Operation function (0-speed)	-	1/1	0	N		[5. 3. 7] [6. 12. 1]	
F590	0590	Shock monitoring	0: Disabled 1: Current detection 2: Torque detection 3: -	-	-	0	N		[6. 29]
F591	0591	Shock monitoring trip	0: Disabled 1: Enabled	-	-	0	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F592	0592	Shock monitoring detection	0: Overcurrent/ Over torque detection 1: Undercurrent/ Undertorque detection	-	-	0	Y		[6. 29]
F593	0593	Shock monitoring detection level	0 - 250	%		150	Y		
F595	0595	Shock monitoring detection time	0.0 - 10.0	s		0.5	Y		
F596	0596	Shock monitoring detection hysteresis	0 - 100	%		10	Y		
F597	0597	Shock monitoring detection wait time	0.0 - 300.0	s		0.0	Y		
F598	0598	Shock monitoring detection condition	0: During run 1: During run (except Acc/Dec)	-	-	0	Y		
F600	0600	Parameter for manufacturer	-	-	-	-	-	-	-
F601	0601	Stall prevention level 1	10 - 200 (HD) 10 - 160 (ND)	%		150 (HD) 120 (ND)	Y		[6. 24. 3] [6. 30. 2]
F602	0602	Trip record retention	0: Clear at power off 1: Retain at power off	-	-	0	Y		[6. 30. 3]
F603	0603	Emergency off stop pattern	0: Trip 1: Trip after Deceleration stop 2: Trip after Emergency DC braking 3: Trip after deceleration stop by F515 4: Trip after Quick deceleration stop 5: Trip after Dynamic quick deceleration stop	-	-	0	N		[6. 30. 4]
F604	0604	Emergency DC braking time	0.0 - 20.0	s		1.0	Y		
F605	0605	Output phase loss detection	0: Disabled 1: At startup (only one time after power on) 2: At every startup 3: During run 4: At every startup + during run 5: Output shut off detection	-	-	0	N		[6. 30. 5]
F606	0606	Motor overload reduction frequency threshold	0.0 - 60.0	Hz		6.0	Y		[5. 2. 5] [6. 30. 1]
F607	0607	Motor overload time	10 - 2400	s		300	Y		
F608	0608	Input phase loss trip	0: Disabled 1: Enabled	-	-	1	N		[6. 30. 6]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F609	0609	Undercurrent detection hysteresis	1 - 20	%		10	Y		[6. 30. 7]
F610	0610	Undercurrent trip	0: Disabled 1: Enabled	-	-	0	Y		
F611	0611	Undercurrent detection level	0 - 150	%		0	Y		
F612	0612	Undercurrent detection time	0 - 255	s		0	Y		
F613	0613	Short circuit detection at start	0: At every startup by standard pulse 1: Only one time after power on by standard pulse 2: At every startup by F614 setting pulse 3: Only one time after power on by F614 setting pulse	-	-	0	N		[6. 30. 9]
F614	0614	Pulse width of short circuit detection at start	0: No short circuit detection at start 1 - 50	μs		25	N		
F615	0615	Overtorque trip	0: Disabled 1: Enabled	-	-	0	Y		[6. 30. 8]
F616	0616	Overtorque detection level during power running	0: Disabled 1 - 320	%		150	Y		
F617	0617	Overtorque detection level during regen	0: Disabled 1 - 320	%		150	Y		
F618	0618	Overtorque detection time	0.0 - 10.0	s		0.5	Y		
F619	0619	Overtorque detection hysteresis	0 - 100	%		10	Y		
F620	0620	Cooling fan control	0: Auto ON/OFF, No failure detection 1: Always ON, No failure detection 2: Auto ON/OFF, Failure detection 3: Always ON, Failure detection 4 - 7: -	-	-	2	Y		[6. 30. 11]
F621	0621	Cumulative run time alarm	0.0 - 999.0	100 h		876.0	Y		[6. 30. 12]
F622	0622	Abnormal speed detection time	0.01 - 100.0	s		0.01	Y		[6. 30. 13]
F623	0623	Abnormal speed increase band	0.00: Disabled 0.01 - 30.0	Hz		0.00	Y		
F624	0624	Abnormal speed decrease band	0.00: Disabled 0.01 - 30.0	Hz		0.00	Y		
F625	0625	Undervoltage detection level	50 - 79 80: Auto	%		80	N		[6. 15. 2] [6. 30. 14]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F626	0626	Overvoltage limit operation level	100 - 150	%		134	N		[6. 15. 4] [6. 15. 5]
F627	0627	Undervoltage trip	0: Disabled 1: Enabled	-	-	0	N		[6. 30. 14]
F628	0628	Undervoltage detection time	0.01 - 10.00	s		0.03	N		
F629	0629	Regenerative power ride-through level	55 - 100	%		75	N		[6. 15. 2] [6. 30. 14]
F630	0630	Brake answer wait time	0.0: Disabled 0.1 - 10.0	s		0.0	Y		[6. 18. 1] [6. 30. 15]
F631	0631	Inverter overload detection	0: 150% - 60s (HD) 120% - 60s (ND) 1: Temperature estimation	-	-	0	N		[5. 3. 5] [6. 30. 1]
F632	0632	Motor overload memory target	0: No.1 to 4 motor, memory disabled 1: No.1 to 4 motor, memory enabled 2: No.1 motor, memory disabled 3: No.1 motor, memory enabled	-	-	0	Y		
F633	0633	II analog input disconnection detection level	0: Disabled 1 - 100	%		0	Y		[6. 30. 16]
F634	0634	Annual average ambient temperature	1: -15 to +10°C 2: +11 to +20°C 3: +21 to +30°C 4: +31 to +40°C 5: +41 to +50°C 6: +51 to +60°C	-	-	3	Y		[6. 30. 17]
F635	0635	Rush current suppression relay delay time	0.0 - 2.5	s		0.0	N		[6. 30. 18]
F636	0636	Ground fault trip	0: Disabled 1: Enabled	-	-	1	N		[6. 30. 10]
F637	0637	Terminal AI4 PTC trip	0: Disabled 1: Enabled	-	-	0	N		[6. 30. 19]
F638	0638	Terminal AI5 PTC trip	0: Disabled 1: Enabled	-	-	0	N		
F639	0639	Braking resistor overload time	0.1 - 600.0	s		5.0	N		[6. 15. 4]
F640	0640	DC supply input	0: Disabled 1: Enabled	-	-	0	N		-
F643	0643	Residual voltage waiting control frequency threshold	0.0 - 60.0	Hz		10.0	N		-
F644	0644	Operation after II analog input disconnection detection	1: Continue running 2: Deceleration stop 3: Coast stop 4: Trip 5: Run by F649	-	-	4	N		[6. 30. 16]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F645	0645	Terminal RR PTC trip	0: Disabled 1: Enabled	-	-	0	Y		[6. 30. 19]
F646	0646	PTC detection resistance	100 - 9999	Ω		3000	Y		
F647	0647	Control power option failure detection	0: Alarm (no detection without option) 1: Alarm 2: Trip	-	-	0	Y		[6. 30. 20]
F648	0648	Number of starting alarm	0.0 - 999.0	10000 times		999.0	Y		[6. 30. 21]
F649	0649	Fallback frequency	LL - UL	Hz		0.0	Y		[6. 30. 16]
F650	0650	Forced run	0: Disabled 1: Enabled	-	-	0	Y		[6. 31]
F651	0651	Undertorque trip	0: Disabled 1: Enabled	-	-	0	Y		-
F652	0652	Undertorque detection level during power running	0 - 250	%		0	Y		-
F653	0653	Undertorque detection level during regen	0 - 250	%		0	Y		-
F654	0654	Undertorque detection time	0.00 - 10.00	s		0.50	Y		-
F655	0655	Undertorque detection hysteresis	0 - 100	%		10	Y		-
F656	0656	PTC detection temperature	0 - 200	°C		90	Y		[6. 30. 19]
F657	0657	Overload alarm level	10 - 100	%		50	Y		[5. 2. 5] [6. 30. 1]
F658	0658	Number of external equipment starting alarm	0.0 - 999.0	10000 times		999.0	Y		[6. 30. 21]
F659	0659	Cumulative overcurrent level	10 - 200	%		100	Y		[6. 30. 22]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F660	0660	Override adding input select	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5: Terminal AI5 (option) 6 - 9: - 10: Touch wheel 1 (power off or press OK to save) 11 - 14: - 15: Terminal Up/Down frequency 16: Pulse train 17: High resolution pulse train (option) 18,19: - 20: Embedded Ethernet 21: RS485 communication (connector 1) 22: RS485 communication (connector 2) 23: Communication option	-	-	0	Y		[6. 32]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F661	0661	Override multiplying input select	0: - 1: Terminal RR 2: Terminal RX 3: Terminal II 4: Terminal AI4 (option) 5 - 11: - 12: F729 13 - 23: -	-	-	0	Y		[6. 32]
F664	0664	Specified trip 1	0 - 100	Times	1/1	0	N		[6. 30. 21]
F665	0665	Specified trip 2	0 - 100	Times	1/1	0	N		
F666	0666	Specified trip 3	0 - 100	Times	1/1	0	N		
F667	0667	Pulse output step of input cumulative power	0: 0.1kWh 1: 1kWh 2: 10kWh 3: 100kWh 4: 1000kWh 5: 10000kWh	-	-	1	Y		[6. 33. 1]
F668	0668	Pulse output width of input cumulative power	0.1 - 1.0	s		0.1	Y		
F669	0669	Terminal FP switching	0: Digital output 1: Pulse output	-	-	0	N		[6. 33. 2] [7. 2. 2]
F670	0670	Terminal AM function	0 - 162 *3	-	-	2	Y		[5. 2. 6]
F671	0671	Terminal AM adjustment	-	-	-	-	Y		
F676	0676	Terminal FP pulse train output function	0 - 149 *3	-	-	0	Y		[6. 33. 2]
F677	0677	Maximum pulse number of pulse train output	0.50 - 43.20	kpps		8.00	Y		
F678	0678	Pulse train output filter	1 - 1000	ms		64	Y		
F679	0679	Pulse train input filter	1 - 1000	ms		1	Y		[6. 6. 4]
F681	0681	Terminal FM switching	0: Meter option (0-1mA) 1: Current output (0-20mA) 2: Voltage output (0-10V)	-	-	2	N		[6. 33. 3]
F682	0682	Terminal FM inclination polarity	0: Negative inclination (downward slope) 1: Positive inclination (upward slope)	-	-	1	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F683	0683	Terminal FM bias	-100.0 to +100.0	%		0.0	Y		[6. 33. 3]
F684	0684	Terminal FM filter	1 - 1000	ms		1	Y		
F685	0685	Terminal FM upper-limit level	0.0 - 100.0	%		100.0	Y		
F686	0686	Terminal AM switching	0: Meter option (0-1mA) 1: Current output (0-20mA) 2: Voltage output (0-10V)	-	-	2	N		
F687	0687	Terminal AM inclination polarity	0: Negative inclination (downward slope) 1: Positive inclination (upward slope)	-	-	1	Y		
F688	0688	Terminal AM bias	-100.0 to +100.0	%		0.0	Y		
F689	0689	Terminal AM filter	1 - 1000	ms		1	Y		
F690	0690	Terminal AM upper-limit level	0.0 - 100.0	%		100.0	Y		
F699	0699	Trip for test	0 - 100			0	Y	-	
F700	0700	Parameter reading & writing access lockout	0: Unlocked 1: Writing locked (Operation panel, Extension panel) 2: Writing locked (1+RS485) 3: Reading & Writing locked (Operation panel, Extension panel) 4: Reading & Writing locked (3+RS485)	-	-	0	Y		[6. 34. 1]
F701	0701	Current, voltage units select	0: % 1: A (ampere), V (volt)	-	-	0	Y		[5. 2. 7] [6. 34. 2]
F702	0702	Free unit multiplicaton factor	0.00: Disabled 0.01 - 200.0	Times		0.00	Y		[5. 4. 3] [6. 34. 3]
F703	0703	Target of free unit	0: All frequencies 1: PID frequencies	-	-	0	Y		
F704	0704	Reference Website	0: English (USA website) 1: English (Japan website)	-	-	*2	Y		
F705	0705	Free unit inclination polarity	0: Negative inclination (downward slope) 1: Positive inclination (upward slope)	-	-	1	Y		
F706	0706	Free unit bias	0.00 - FH	Hz		0.00	Y		
F707	0707	Step of panel setting	0.00: Disabled 0.01 - FH	Hz		0.00	Y		[6. 34. 4]
F708	0708	Step of panel display	0: Disabled 1 - 255	-	-	0	Y		
F709	0709	Hold function of standard mode	0: Real time 1: Peak hold 2: Minimum hold	-	-	0	Y		[6. 34. 7]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F710	0710	Standard mode display	0 - 162 *3	-	-	0	Y		[4. 2. 3] [5. 4. 3] [6. 34. 5]
F711	0711	Monitor mode 1 display		-	-	2	Y		[6. 34. 6] [8. 1. 1]
F712	0712	Monitor mode 2 display		-	-	3	Y		
F713	0713	Monitor mode 3 display		-	-	4	Y		
F714	0714	Monitor mode 4 display		-	-	8	Y		
F715	0715	Monitor mode 5 display		-	-	18	Y		
F716	0716	Monitor mode 6 display		-	-	19	Y		
F717	0717	Monitor mode 7 display		-	-	35	Y		
F718	0718	Monitor mode 8 display		-	-	34	Y		
F719	0719	Run command clear select	0: Clear at coast stop. Retain at MOFF and when CMOD is changed. 1: Retain run command. 2: Clear at coast stop and at MOFF. Retain when CMOD is changed. 3: Clear at coast stop, at MOFF and when CMOD is changed.	-	-	2	Y		[6. 34. 8]
F720	0720	Standard mode display of extension panel	0 - 162 *4	-	-	0	Y		[5. 4. 3] [6. 34. 5]
F721	0721	Panel stop	0: Deceleration stop 1: Coast stop	-	-	0	Y		[6. 34. 9]
F722	0722	Monitor mode filter	8 - 1000	ms		200	Y		-
F723	0723	Status area display of operation panel	0 - 162 *4	-	-	1	Y		[5. 4. 3] [6. 34. 5]
F724	0724	Frequency setting target by touch wheel	0: Panel run frequency command (FC) 1: FC + Preset speed	-	-	0	Y		[5. 3. 7]
F725	0725	Panel torque command	-250 to +250	%		0	Y		[6. 25. 1] [6. 34. 10]
F727	0727	Panel tension torque bias	-250 to +250	%		0	Y		[6. 25. 3]
F728	0728	Panel load sharing gain	0 - 250	%		100	Y		
F729	0729	Panel override multiplication gain	-100 to +100	%		0	Y		[6. 32]

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F730	0730	Panel frequency setting lockout	0: Unlocked without press OK 1: Locked 2: Unlocked after press OK	-	-	2	Y		[6. 34. 1]
F731	0731	Operation after disconnection detection during panel run	1: Continue running 2 - 3: - 4: Trip	-	-	4	Y		
F732	0732	Panel Hand/Auto function lockout	0: Unlocked 1: Locked	-	-	1	Y		
F733	0733	Panel Run lockout	0: Unlocked 1: Locked	-	-	0	Y		
F734	0734	Panel emergency off lockout	0: Unlocked 1: Locked	-	-	0	Y		
F735	0735	Panel reset lockout	0: Unlocked 1: Locked	-	-	0	Y		
F736	0736	CMO _d /FMO _d change lockout during run	0: Unlocked 1: Locked	-	-	1	Y		
F737	0737	Panel keys lockout	0: Unlocked 1: Locked 2: Locked only extension panel 3: Locked only operation panel	-	-	0	Y		
F738	0738	Password setting	0: Disabled 1 - 9998 9999: Password was set	-	-	0	Y		
F739	0739	Password verification	0: non-setting 1 - 9998 9999: Password was set	-	-	0	Y		
F740	0740	Trace	0: Disabled 1: At trip 2: At trigger input 3: At trip & at trigger input	-	-	1	Y		[6. 35]
F741	0741	Trace cycle	0: 4ms 1: 20ms 2: 100ms 3: 1s 4: 10s	-	-	2	Y		
F742	0742	Trace data 1	0 - 162 *3	-	-	0	Y		
F743	0743	Trace data 2		-	-	1	Y		
F744	0744	Trace data 3		-	-	2	Y		
F745	0745	Trace data 4		-	-	3	Y		
F748	0748	Cumulative power save	0: Disabled 1: Enabled	-	-	0	Y		[6. 36]
F749	0749	Cumulative power unit	0: 1.0=1 kWh 1: 1.0=10 kWh 2: 1.0=100 kWh 3: 1.0=1000 kWh 4: 1.0=10000 kWh 5: 1.0=100000 kWh	-	-	*1	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F750	0750	EASY key function	0: Easy/Setting mode switching 1: Shortcut function (Extension panel only) 2: Hand/Auto switching 3: Monitor peak and minimum hold trigger	-	-	0	N		[6. 37]
F751	0751	Easy setting 1	0-2999 Set easy setting parameters by the communication number 0000-0998: Basic, F100-F998 1000-1999: A000-A999 2000-2999: C000-C999	-	-	3	Y		[5. 2. 8]
F752	0752	Easy setting 2		-	-	4	Y		
F753	0753	Easy setting 3		-	-	9	Y		
F754	0754	Easy setting 4		-	-	10	Y		
F755	0755	Easy setting 5		-	-	12	Y		
F756	0756	Easy setting 6		-	-	13	Y		
F757	0757	Easy setting 7		-	-	31	Y		
F758	0758	Easy setting 8		-	-	6	Y		
F759	0759	Easy setting 9		-	-	999	Y		
F760	0760	Easy setting 10		-	-	999	Y		
F761	0761	Easy setting 11		-	-	999	Y		
F762	0762	Easy setting 12		-	-	999	Y		
F763	0763	Easy setting 13		-	-	999	Y		
F764	0764	Easy setting 14		-	-	999	Y		
F765	0765	Easy setting 15		-	-	999	Y		
F766	0766	Easy setting 16		-	-	999	Y		
F767	0767	Easy setting 17		-	-	999	Y		
F768	0768	Easy setting 18		-	-	999	Y		
F769	0769	Easy setting 19		-	-	999	Y		
F770	0770	Easy setting 20		-	-	999	Y		
F771	0771	Easy setting 21		-	-	999	Y		
F772	0772	Easy setting 22		-	-	999	Y		
F773	0773	Easy setting 23		-	-	999	Y		
F774	0774	Easy setting 24		-	-	999	Y		
F775	0775	Easy setting 25		-	-	999	Y		
F776	0776	Easy setting 26		-	-	999	Y		
F777	0777	Easy setting 27		-	-	999	Y		
F778	0778	Easy setting 28		-	-	999	Y		
F779	0779	Easy setting 29		-	-	999	Y		
F780	0780	Easy setting 30		-	-	999	Y		
F781	0781	Easy setting 31		-	-	701	Y		
F782	0782	Easy setting 32		-	-	50	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F790	0790	Panel display at power on	0: HELLO (Depending on language setting) 1: F791 - F798 2, 3: -	-	-	0	Y		[6. 34. 11]
F791	0791	1st and 2nd characters of F790	0-FFFF	Hex	-	2d2d	Y		
F792	0792	3rd and 4th characters of F790	0-FFFF	Hex	-	2d2d	Y		
F793	0793	5th and 6th characters of F790	0-FFFF	Hex	-	2d2d	Y		
F794	0794	7th and 8th characters of F790	0-FFFF	Hex	-	2d2d	Y		
F795	0795	9th and 10th characters of F790	0-FFFF	Hex	-	2d2d	Y		
F796	0796	11th and 12th characters of F790	0-FFFF	Hex	-	2d2d	Y		
F797	0797	13th and 14th characters of F790	0-FFFF	Hex	-	2d2d	Y		
F798	0798	15th and 16th characters of F790	0-FFFF	Hex	-	2d2d	Y		
F799	0799	Parameter for manufacturer	-	-	-	-	-		-

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F800	0800	RS485 (1) baud rate	0: 9600 bps 1: 19200 bps 2: 38400 bps 3: -	-	-	1	Y		[6. 38. 1]
F801	0801	RS485 (1) parity	0: Disabled 1: Even parity 2: Odd parity	-	-	1	Y		
F802	0802	Inverter number (RS485 common)	0 - 247	-	-	0	Y		
F803	0803	RS485 (1) time-out time	0.0: Disabled 0.1 - 100.0	s		0.0	Y		
F804	0804	RS485 (1) time-out operation	1: Continue running 2, 3: - 4: Trip 5: - 6: Trip after deceleration stop	-	-	1	Y		
F805	0805	RS485 (1) transmission wait time	0.00 - 2.00	s		0.00	Y		
F806	0806	RS485 (1) inverter to inverter communication	0: Follower (0Hz command when Leader fails) 1: Follower (continue running when Leader fails) 2: Follower (emergency off when Leader fails) 3: Leader (transmit frequency command) 4: Leader (transmit output frequency signal) 5: Leader (transmit torque command) 6: Leader (transmit output torque)	-	-	0	Y		
F807	0807	RS485 (1) protocol	0: TOSHIBA 1: MODBUS	-	-	0	Y		
F808	0808	RS485 (1) time-out detection	0: Always 1: Run command and frequency command by communication are enabled. 2: During run by communication	-	-	1	Y		
F809	0809	Operation panel connection priority	0: By the parameter setting 1: Connect to conector 1 2: Connect to conector 2	-	-	1	Y	-	

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F810	0810	Communication frequency point select	0: Disabled 1: RS485 (1) 2: RS485 (2) 3: Communication option 4: Embedded Ethernet	-	-	0	Y		[6. 6. 2] [6. 38. 1]
F811	0811	Communication point 1 input value	0 - 100	%		0	Y		
F812	0812	Communication point 1 frequency	0.0 - FH	Hz		0.0	Y		
F813	0813	Communication point 2 input value	0 - 100	%		100	Y		
F814	0814	Communication point 2 frequency	0.0 - FH	Hz		50.0/ 60.0*2	Y		
F820	0820	RS485 (2) baud rate	0: 9600 bps 1: 19200 bps 2: 38400 bps 3: -	-	-	1	Y		[6. 38. 1]
F821	0821	RS485 (2) parity	0: Disabled 1: Even parity 2: Odd parity	-	-	1	Y		
F823	0823	RS485 (2) time-out time	0.0: Disabled 0.1 - 100.0	s		0.0	Y		
F824	0824	RS485 (2) time-out operation	1: Continue running 2, 3: - 4: Trip 5: - 6: Trip after deceleration stop	-	-	1	Y		
F825	0825	RS485 (2) transmission wait time	0.00 - 2.00	s		0.00	Y		
F826	0826	RS485 (2) inverter to inverter communication	0: Follower (0Hz command when Leader fails) 1: Follower (continue running when Leader fails) 2: Follower (emergency off when Leader fails) 3: Leader (transmit frequency command) 4: Leader (transmit output frequency signal) 5: Leader (transmit torque command) 6: Leader (transmit output torque command)	-	-	0	Y		
F827	0827	RS485 (2) protocol	0: TOSHIBA 1: MODBUS	-	-	0	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F828	0828	RS485 (2) time-out detection	0: Always 1: Run command and frequency command by communication are enabled. 2: During run by communication	-	-	1	Y		[6. 38. 1]
F829	0829	RS485 (2) wiring type	0: 2-wire 1: 4-wire	-	-	0	Y		
F830	0830	MODBUS continuous address	0: Disabled 1: Enabled	-	-	1	Y		
F856	0856	Motor pole number for communication	1: 2 pole 2: 4 pole 3: 6 pole 4: 8 pole 5: 10 pole 6: 12 pole 7: 14 pole 8: 16 pole	-	-	2	Y		
F870	0870	Block write data 1	0: Disabled 1: FA00 (Communication command 1) 2: FA20 (Communication command 2)	-	-	0	Y		
F871	0871	Block write data 2	3: FA01 (Frequency command) 4: FA50 (TB output) 5: FA51 (Analog output) 6: FA13 (Speed command by communication)	-	-	0	Y		

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F875	0875	Block read data 1	0: Disabled	-	-	0	Y		
F876	0876	Block read data 2	1: FD01 (Status information)	-	-	0	Y		
F877	0877	Block read data 3	2: FD00 (Output frequency)	-	-	0	Y		
F878	0878	Block read data 4	3: FD03 (Output current)	-	-	0	Y		
F879	0879	Block read data 5	4: FD05 (Output voltage) 5: FC91 (Alarm information) 6: FD22 (PID feedback value) 7: FD06 (Input terminal monitor) 8: FD07 (Output terminal monitor) 9: FE35 (Terminal RR monitor) 10: FE36 (Terminal RX monitor) 11: FE37 (Terminal II monitor) 12: FD04 (Input voltage (DC detection)) 13: FD16 (Speed feedback frequency) 14: FD18 (Torque) 15: FE60 (My function output monitor 1) 16: FE61 (My function output monitor 2) 17: FE62 (My function output monitor 3) 18: FE63 (My function output monitor 4) 19: 0880 (Free memorandum) 20: FD90 (Motor speed) 21: FD29 (Input power) 22: FD30 (Output power) 23: FC90 (Trip information)	-	-	0	Y		[6. 38. 1]
F880	0880	Free memorandum	0-65535	-	1/1	0	Y		[6. 38. 3]
F896	0896	Parameter for manufacturer	-	-	-	-	-		-
F897	0897	Parameter writing	0: Storage to memory device 1: Storage to memory device except by communication	-	-	0	Y		-
F898	0898	Trip reset	0: Clear trip by request from communication option. Reset by request except from communication option. 1: Reset 2: Trip clear 3 - 5: -	-	-	0	N		-

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F899	0899	Communication option reset	0: - 1: Reset option and inverter	-	-	0	N		[6. 38. 1]
F907	0907	PM regenerative over-flux upper limit	0 - 150	%		50	N		-
F908	0908	PM no load current	0 - 100	%		0	N		-
F909	0909	PM step-out detection frequency rate	0 - 100	%		0	N		-
F910	0910	PM step-out detection current level	1 - 150	%		100	N		[6. 39]
F911	0911	PM step-out detection time	0.00: Disabled 0.01 - 2.55	s		0.00	N		
F912	0912	PM q-axis inductance	0.01 - 650.0	mH		10.00	N		[6. 23. 2]
F913	0913	PM d-axis inductance	0.01 - 650.0	mH		10.00	N		
F914	0914	Parameter for manufacturer	-	-	-	-	-		-
F915	0915	PM control method	0: Method 0 1: Method 1 2: Method 2 3: Method 3 4: Method 4	-	-	3	N		[6. 23. 2]
F916	0916	PM starting current	0 - 100	%		25	N		-
F917	0917	IPM maximum torque control	0: Disabled 1: Enabled	-		0	Y		-
F918	0918	IPM current phase adjustment	-45.0 to +45.0	°C		0.0	Y		-
F919	0919	Parameter for manufacturer	-	-	-	-	-		-
F920	0920	Parameter for manufacturer	-	-	-	-	-		-
F921	0921	SPM initial position estimation current	10 - 150	%		100	N		-
F922	0922	PM HF control speed estimation response	5 - 80	Hz		15	N		-
F923	0923	PM control switching speed	5 - 100	%		25	N		-
F924	0924	PM speed estimation filter cutoff frequency	1 - 80	Hz		30	N		-
F925	0925	PM HF control speed estimation stabilization coefficient	0.50 - 2.50			1.00	N		-
F926	0926	PM HF control harmonic frequency	100 - 1000	Hz		500	N		-

Title	Communication No.	Parameter name	Adjustment range	Unit	Minimum setting unit (Panel/Communication)	Default setting	Write during running *6	User setting	Reference
F927	0927	PM HF control current level	5 - 100	%		25	N		-
F928	0928	PM initial position estimation time	0 - 1000	ms		125	N		-
F929	0929	PM dead time compensation time	-1 to +32767	ns		0	N		-
F930	0930	Parameter for manufacturer	-	-	-	-	-		-
F964	0964	Preset speed 16	LL - UL	Hz		0.0	Y		[5. 3. 7]
F965	0965	Preset speed 17	LL - UL	Hz		0.0	Y		
F966	0966	Preset speed 18	LL - UL	Hz		0.0	Y		
F967	0967	Preset speed 19	LL - UL	Hz		0.0	Y		
F968	0968	Preset speed 20	LL - UL	Hz		0.0	Y		
F969	0969	Preset speed 21	LL - UL	Hz		0.0	Y		
F970	0970	Preset speed 22	LL - UL	Hz		0.0	Y		
F971	0971	Preset speed 23	LL - UL	Hz		0.0	Y		
F972	0972	Preset speed 24	LL - UL	Hz		0.0	Y		
F973	0973	Preset speed 25	LL - UL	Hz		0.0	Y		
F974	0974	Preset speed 26	LL - UL	Hz		0.0	Y		
F975	0975	Preset speed 27	LL - UL	Hz		0.0	Y		
F976	0976	Preset speed 28	LL - UL	Hz		0.0	Y		
F977	0977	Preset speed 29	LL - UL	Hz		0.0	Y		
F978	0978	Preset speed 30	LL - UL	Hz		0.0	Y		
F979	0979	Preset speed 31	LL - UL	Hz		0.0	Y		
F980	0980	Traverse operation	0: Disabled 1: Enabled	-	-	0	N		[6. 40]
F981	0981	Traverse Acc time	0.1 - 120.0	s		25.0	Y		
F982	0982	Traverse Dec time	0.1 - 120.0	s		25.0	Y		
F983	0983	Traverse step	0.0 - 25.0	%		10.0	Y		
F984	0984	Traverse jump step	0.0 - 50.0	%		10.0	Y	F	

*1 Parameter values vary depending on the capacity. For details, refer to [11. 6].

*2 Depending on the setup menu. Refer to [11. 10].

*3 For details on the analog output and monitor output function, refer to [11. 7].

*4 Refer to section [11. 8] for details about the input terminal function.

*5 Refer to section [11. 9] for details about the output terminal function.

*6 Y: Writable N: Not writable

11.4 Advanced parameter

Title	Function	Reference
Starting at A000	Calendar function	E6582110
Starting at A200	Pump control	E6582124
Starting at A300	Multi PID	E6582112
Starting at A800 Starting at A900	My function	E6582114

11.5 Communication parameter

Title	Function	Reference
C001 - C111	Common to communication options	*1
C152 - C157 C500 - C556	For PROFINET option	E6582051
C606 - C699	For embedded Ethernet	E6582125

*1 Refer to each Instruction Manual for option about detail specifications and common parameters.