

ASB810

High protection

inverter user manual

Highly Protective

Inverters



✓ Long lifespan

✓ Low failure rate

Serving for Damp and Dusty Environment

Service Life is **5 to 10 times** Longer than Regular Inverter
PROTECTION LEVEL: **IP66**

ASB810 HIGH PROTECTION INVERTER USER MANUAL

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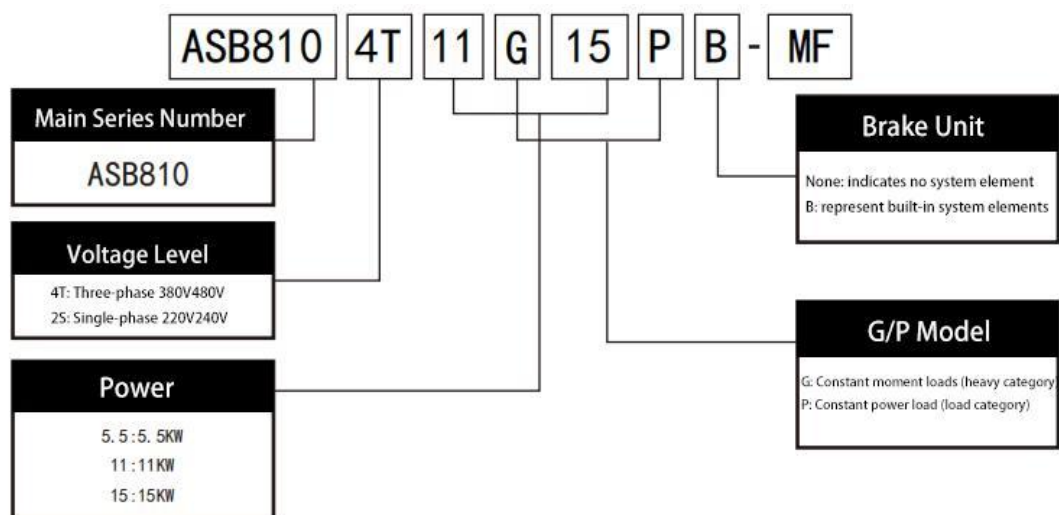
1.Model & Technical Parameters

Volume	Drive Model	Power Supply Capacity (KAV)	Input Current (A)	Output Current (A)	Motor (KW)
	Three-phase power supply: AC380~440V, 50Hz/60Hz				
B1	ASB810-4T0.75G/1.5PB-MF	1.5	2.4	2.1	0.75
	ASB810-4T1.5G/2.2PB-MF	3.0	4.0	3.8	1.5
	ASB810-4T2.2G/4.0PB-MF	4.0	5.8	5.1	2.2
	ASB810-4T4.0GB-MF	5.9	10.5	9	4
B2	ASB810-4T4.0G/5.5PB-MF	5.9	10.5	9/13	4.0/5.5
	ASB810-4T5.5G/7.5PB-MF	8.9	14.6	13/17	5.5/7.5
	ASB810-4T7.5GB-MF	11.0	20.5	17	7.5
B3	ASB810-4T7.5G/11PB-MF	11.0	20.5	17/25	7.5/11
	ASB810-4T11G/15PB-MF	17.0	26.0	25/32	11/15
	ASB810-4T15GB-MF	21.0	35.0	32	15
B4	ASB810-4T15G/18.5PB-MF	21.0	35.0	32/37	15/18.5
	ASB810-4T18.5G/22PB-MF	24.0	38.5	37/45	18.5/22
	ASB810-4T22G/30PB-MF	30.0	46.5	45/60	22/30
	ASB810-4T30GB-MF	40.0	62.0	60	30
B5	ASB810-4T30G/37P-MF	40.0	62.0	60/75	30//37
	ASB810-4T37G/45P-MF	57.0	76.0	75/91	37/45
B6	ASB810-4T45G/55P-MF	69.0	92.0	91/112	45/55
	ASB810-4T55G/75P-MF	85.0	113.0	112/150	55/75
B7	ASB810-4T75G/90P-MF	114.0	157	150/176	75/90
	ASB810-4T90G/110P-MF	114.0	180	176/210	90/110
B8	ASB810-4T110G/132P-MF	134.0	214	210/253	110/132
B9	ASB810-4T132G/160P-MF	160.0	256	253/304	132
	ASB810-4T160G/185P-MF	192.0	307	304/340	160
	ASB810-4T185G/200P-MF	242	350	340/377	185

Volume	Drive Model	Power Supply Capacity (KAV)	Input current (A)	Output current (A)	Motor (KW)
	Single-phase power supply: AC220~240V, 50Hz/60Hz				
B1	ASB810-2S0.4GB-MF	1.4	5.4	2.3	0.4
	ASB810-2S0.75GB-MF	2.2	8.2	4	0.75
	ASB810-2S1.5GB-MF	3.7	14	7	1.5
	ASB810-2S2.2GB-MF	6.0	23	9.6	2.2

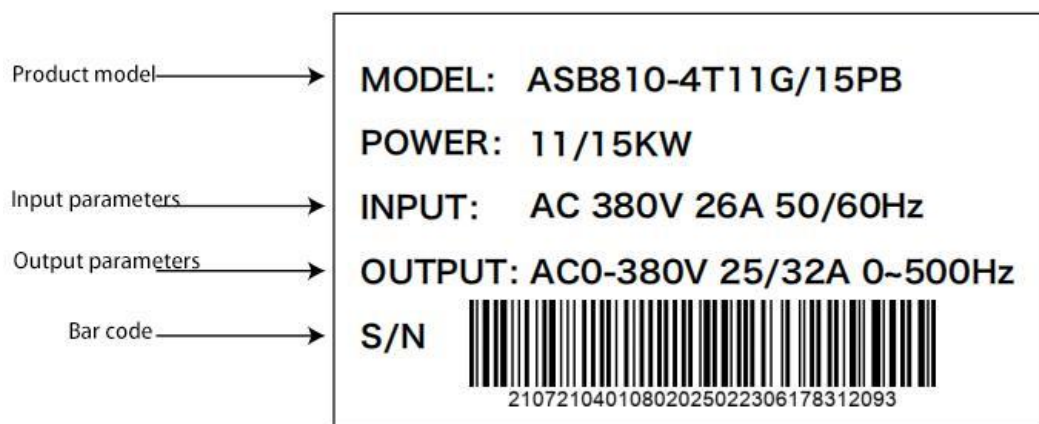
2.Product Information

2.1 Naming Rule

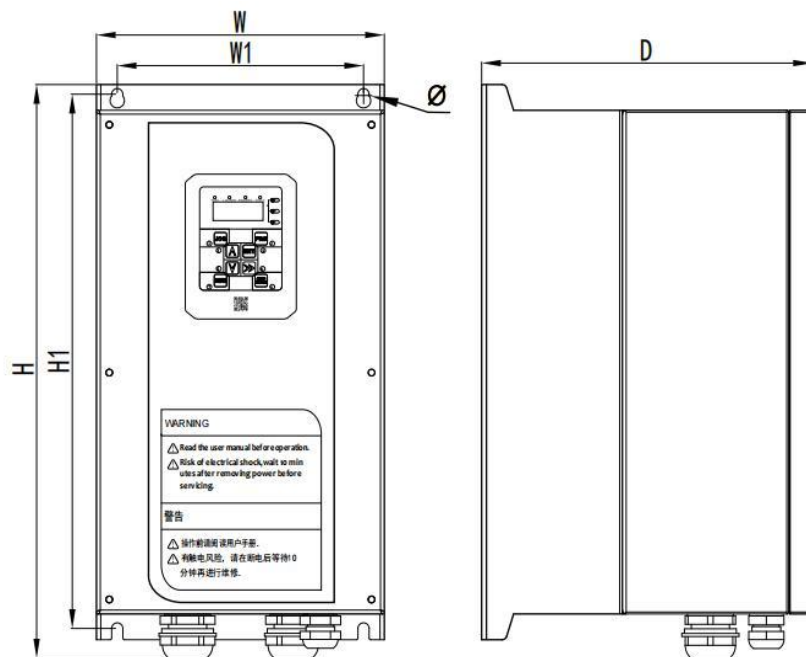


Inverter product Naming Rules

2.2 Nameplate



3.Appearance & Installation Dimensions



ASB810 Series (Unit: mm)

Volume	Drive Model	Mounting Dimensions		Exterior Dimensions			Mounting hole diameter
		W1	H1	W	H	D	Φ
B1	ASB810-4T0.75G/1.5PB-MF	110	259	136	285	155	6
	ASB810-4T1.5G/2.2PB-MF						
	ASB810-4T2.2G/4.0PB-MF						
	ASB810-4T4.0GB-MF						
B2	ASB810-4T4.0G/5.5PB-MF	114	267	140	288	165	6
	ASB810-4T5.5G/7.5PB-MF						
	ASB810-4T7.5GB-MF						
B3	ASB810-4T7.5G/11PB-MF	154	332	180	357	207	7
	ASB810-4T11G/15PB-MF						
	ASB810-4T15GB-MF						
B4	ASB810-4T15G/18.5PB-MF	150	361	205	381	228	6.5
	ASB810-4T18.5G/22PB-MF						
	ASB810-4T22G/30PB-MF						
	ASB810-4T30GB-MF						
B5	ASB810-4T30G/37P-MF	160	408	265	429	258	6.5
	ASB810-4T37G/45P-MF						
B6	ASB810-4T45G/55P-MF	220	526	326	550	270	10
	ASB810-4T55G/75P-MF						
B7	ASB810-4T75G/90P-MF	220	539	340	576	266	10
	ASB810-4T90G/110P-MF						

B8	ASB810-4T110G/132P-MF	220	725	380	758	328	10
B9	ASB810-4T132G/160P-MF	300	764	446	804	338	10
	ASB810-4T160G/185P-MF						
	ASB810-4T185G/200P-MF						

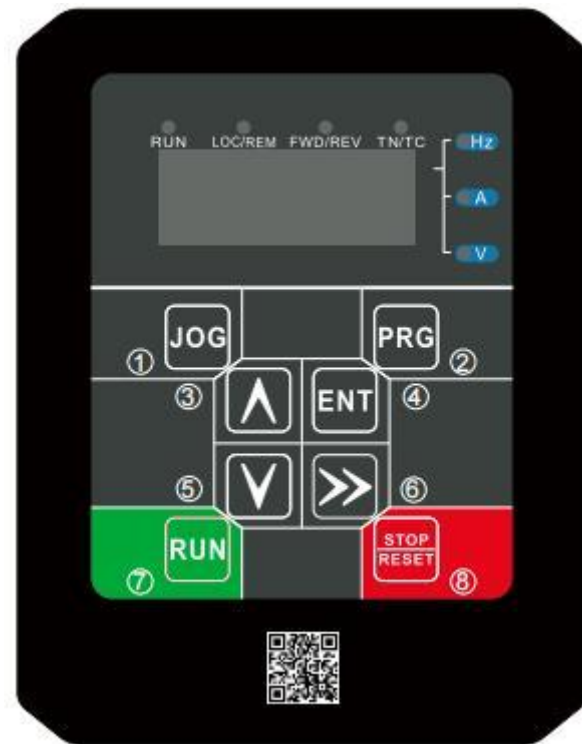
4.Expansion Modules

Functional Version Specification				
No.	Component	Model	Function Version No.	Remarks
1	EM Module	EMIO-A	V101	1-channel analog output, 1-channel relay output
2		EMIO-B	V102	1-channel high-speed pulse output, 1-channel relay output
3		EMIO-C	V103	1-channel analog output, 1-channel high-speed pulse output
4		EMIO-D	V104	2-channel relay output
5		EMIO-E	V105	1-channel analog input (supports PT100 temperature acquisition, -10~+10V input), 1-channel analog output, 1-channel relay output
6		EMIO-F	V106	1-channel high-speed pulse output
7		EMIO-G	V107	Isolated 485 communication, PT100 temperature acquisition, 1-channel analog output
8		EMIO-H	V108	Isolated 485 communication, PT100 temperature acquisition, 1-channel relay output
9		EM485-01	V109	Isolated 485 communication
10		EMCAN-01	V110	CAN bus expansion (CANLINK, master-slave control)
11		EMPN-01	V111	PROFINET bus expansion
12		EMTCP	V112	Modbus-TCP bus expansion
13		EMIP	V113	EtherNet/IP bus expansion
14		EMECAT-01	V114	EtherCAT bus expansion
15		EMPG-01	V115	Supports open-collector input, push-pull input encoder
16		EMPG-02	V116	Supports differential input, collector input, push-pull input encoder
17		EMPG-03	V117	PT100/PT1000/KTY84 temperature acquisition, PTC130 over-temperature protection
18		EMPG-04	V118	Supports differential input, collector input, push-pull input encoder, PT100 temperature acquisition
19		EMPG-05	V119	Supports differential input, differential divider output, up to 63-division

5.Operation Panel

5.1 Introduction to Operation & Display Panel

Through operation panel, users can modify function parameters, monitor drive operating status and perform run/stop control. Refer to diagram for layout and function zones.



5.1.1 Indicator Lamp Description

- **RUN:** Off = stop status; On = running status
- **FWD/REV:** Forward/reverse indicator; lit for reverse rotation
- **TUNE/TC:** Auto- tune / torque control / fault indicator. Lit: torque- control mode; slow flashing: auto- tune; fast flashing: fault alarm.
- **LOCAL/REMOT:** Start- stop control source indicator. Off: panel control; steady- on: terminal control; flashing: communication control.
- **Unit indicators:** Hz- frequency; A- current; V- voltage; RPM(Hz+A)- rotational speed; %(A+V)- percentage.
- **5- digit LED display:** shows set frequency, output frequency, monitor data and alarm codes.

5.1.2 Keypad Button Description

Key	Name	Function
PRG	Menu key	Enter / exit primary menu; toggle with run display screen
ENT	Enter key	Enter menu level by level; confirm parameter setting
▲	Up key	Increment data / function code
▼	Down key	Decrement data / function code

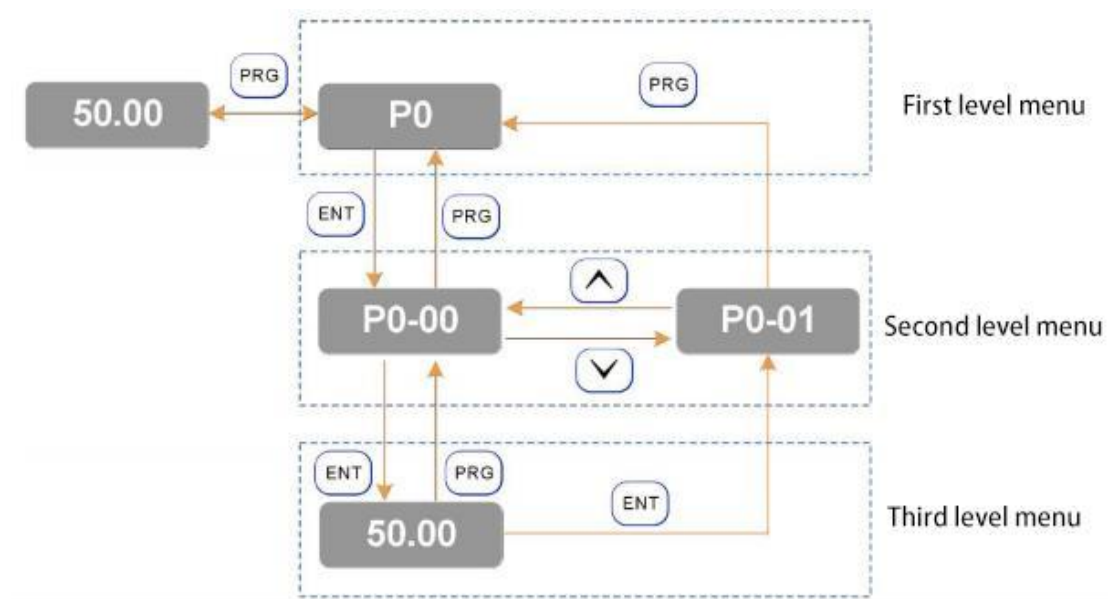
Key	Name	Function
►	Shift key	Cycle display parameters under stop / run page; select digit position during parameter modification
RUN	Run key	Run command under keypad- control mode
STOP/RESET	Stop / Reset	Reset under fault alarm; stop drive under running; function is defined by P7- 16
JOG	Multi- functio n key	Function selectable via P7- 01: parameter- display switch, command- source switch, FWD/REV toggle, jog operation etc.

5.2 Description for Function Code Viewing & Modification

The inverter operation panel adopts a three- level menu structure for operations such as parameter setting. The three- level menus are respectively:

Function Parameter Group (1st- level Menu) → Function Code (2nd- level Menu) → Function Code Setting Value (3rd- level Menu).

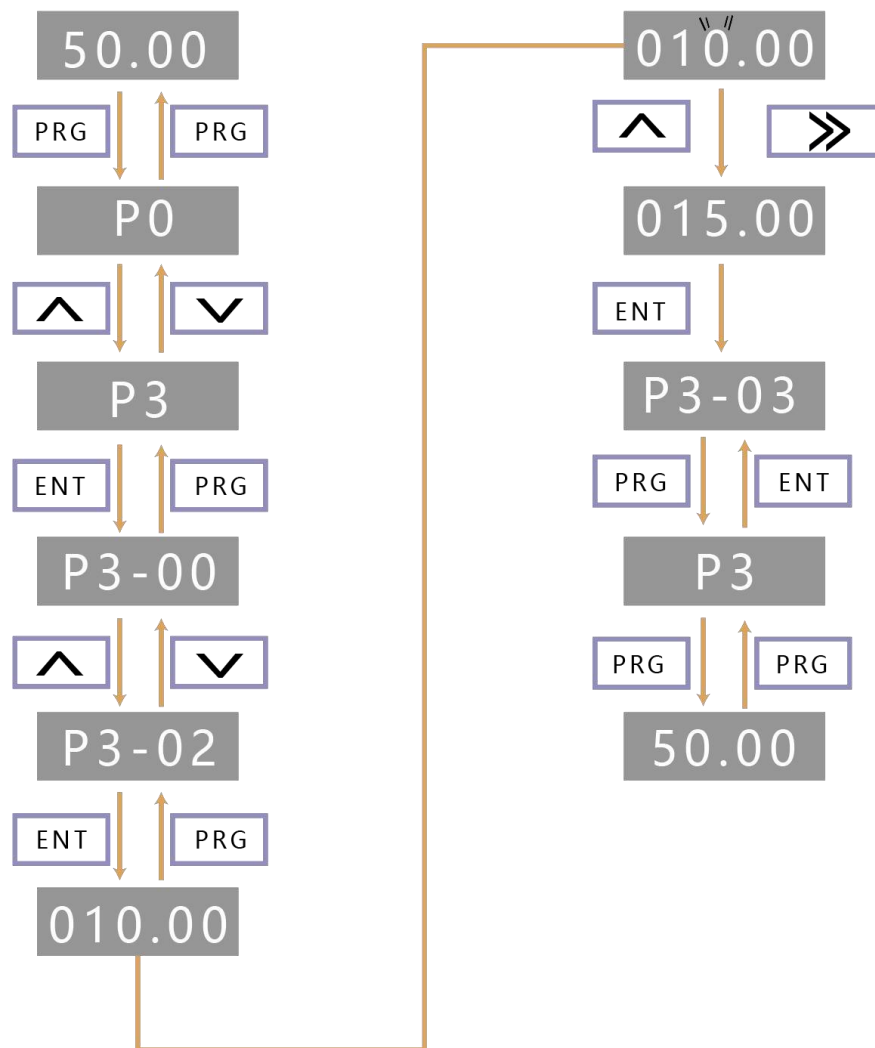
The operation procedure is shown in the figure.



Three-level menu operation flow chart

Note: When operating in the 3rd- level menu, you can press the **PRG** or **ENTER** key to return to the 2nd- level menu. The difference between the two operations is: pressing the **ENTER** key saves the set parameter, returns to the 2nd- level menu and automatically jumps to the next function code; whereas pressing the **PRG** key returns directly to the 2nd- level menu **without saving the parameter**, and stays at the current function code.

Example: Example of modifying function code P3- 02 from 10.00Hz to 15.00Hz. (Bold characters indicate the flashing digit position.)



Note: Under the 3rd- level menu status, if no digit flashes, it means this function - code cannot be modified. Possible causes:

1. This function- code is a non- editable parameter, such as actual measured parameters, operation record parameters, etc.
2. This function- code cannot be modified while the drive is in running status. Stop the drive before modifying it.

6.Operating Environment

- Altitude: Below 1000 m;
- Ambient Temperature: $-50^{\circ}\text{C} \sim +50^{\circ}\text{C}$ (Derate the unit when ambient temperature ranges from 40°C to 50°C);
- Vibration: Less than 5.9 m/s^2 (0.6 g);
- Storage Temperature: $-50^{\circ}\text{C} \sim +50^{\circ}\text{C}$

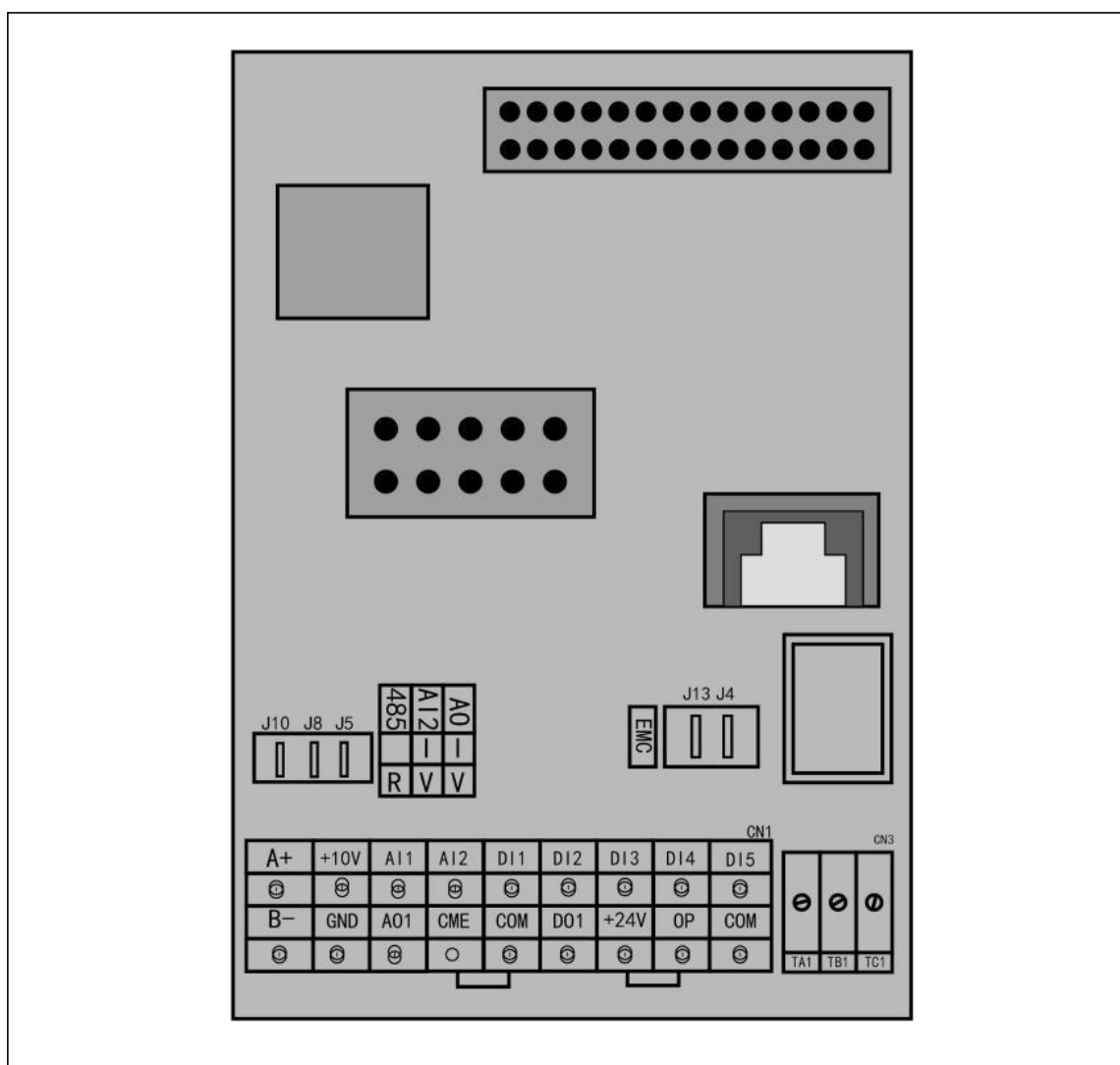
7.Macro Description for Machine- Tool Application

Apply the macro, set L0-00=3, the following parameters will be updated automatically;

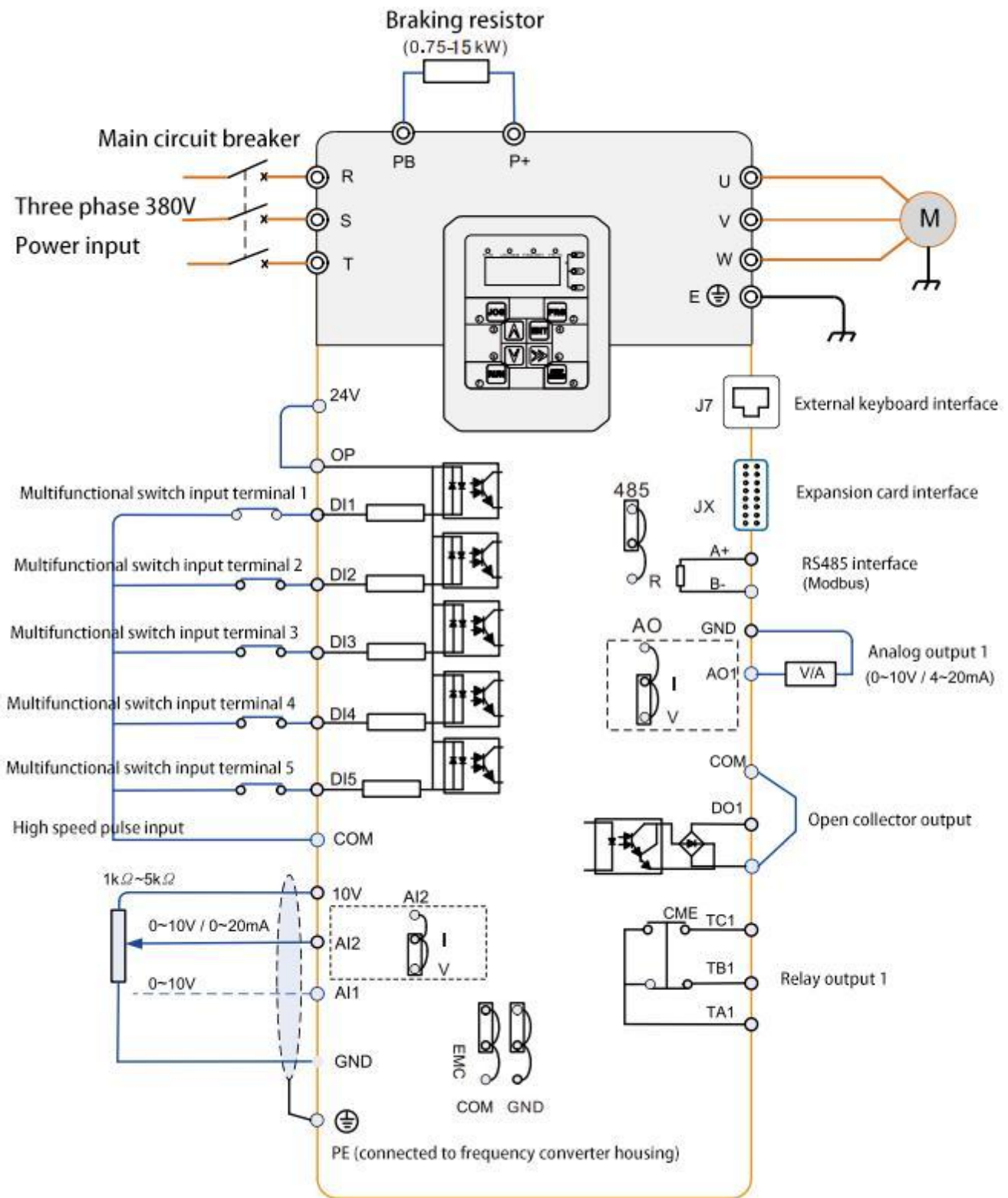
Function Code	Function	Range	Factory Default
P0- 02	Command Source	0 ~ 2	1 (Terminal)
P0- 03	Frequency Source	0 ~ 9	2 (AI1)
P0- 17	Acceleration Time 1	0.0 s ~ 6500.0 s (P0- 19=1)	1.5 s
P0- 18	Deceleration Time 1	0.0 s ~ 6500.0 s	1.5 s
P3- 09	V/F Slip Compensation Gain	0.0% ~ 200.0%	50%

8.Control Module Wiring Description

ASB810- MF Control Module Wiring Diagram



ASB810-MF



9.Basic Function Parameter Table

When PP- 00 is set to a non-zero value, the parameter protection password is enabled. Under the function parameter mode and user parameter editing mode, the parameter menu can only be accessed after entering the correct password. To clear the password, set PP-00 to 0.

The parameter menu under the user custom parameter mode is not password protected. Group P and Group H are basic function parameters; Group U are monitor function parameters. The symbols used in the parameter table are described as follows:

☆: Parameter can be modified both in stop and running status.

★: Parameter cannot be modified during running.

●: Read- only measured / recorded value, non- editable.

*: Manufacturer parameter only, end- user forbidden to change.

(E) : Parameters for synchronous- motor control.

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P0 Basic Function Group					
P0- 00	GP Type Display	1: G-type (Constant- torque load model) 2: P-type (Fan & water- pump load model)	Model- depende nt	●	0xF000
P0- 01	1st- Motor Control Mode	0: Sensor-less Vector Control (SVC) 1: Speed-sensor Vector Control (FVC) 2: V/F Control	Model- depende nt	★	0xF001
P0- 02	Command Source Selection	0: Keypad command channel (LED OFF) 1: Terminal command channel (LED ON) 2: Communication command channel (LED flashing)	0	☆	0xF002

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P0- 03	Main Frequency Source X Selection	0: Digital setting (Preset frequency P0-08, modifiable by UP/DOWN, no power-down memory) 1: Digital setting (Preset frequency P0-08, modifiable by UP/DOWN, power-down memory) 2: AI1 3: AI2 4: AI3 5: PULSE pulse setting (DI5) 6: Multi-step command 7: Simple PLC 8: PID 9: Communication reference 10: Photoelectric multi-step speed frequency	1	★	0xF003
P0- 04	Auxiliary Frequency Source Y for Superposition	Same as P0- 03 (Main Frequency Source X Selection)	0	★	0xF004
P0- 05	Reference Range of Auxiliary Frequency Source Y for Superposition	0: Relative to maximum frequency 1: Relative to Frequency Source X	0	☆	0xF005
P0- 06	Gain Range of Auxiliary Frequency Source Y for Superposition	0.0% ~ 300.0%	100.0%	☆	0xF006
P0- 07	Frequency-source Superposition Selection	Unit digit: Frequency source selection 0: Main frequency source X 1: Calculation result of main & auxiliary sources (Calculation relation defined	00	☆	0xF007

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
		by tens digit) 2: Toggle between main frequency source X and auxiliary frequency source Y 3: Toggle between main frequency source X and main-auxiliary calculation result 4: Toggle between auxiliary frequency source Y and main-auxiliary calculation result Tens digit: Main- auxiliary frequency- source arithmetic relation 0: Main + Auxiliary 1: Main - Auxiliary 2: Maximum of the two 3: Minimum of the two			
P0- 08	Preset Frequency	0.00 Hz ~ Maximum Frequency (P0-10)	50.00 Hz	☆	0xF008
P0- 09	Running Direction	0: Same direction 1: Reverse direction	0	☆	0xF009
P0- 10	Maximum Frequency	50.00 Hz ~ 500.0 Hz	50.00 Hz	★	0xF00A
P0- 11	Upper-limit Frequency Source	0: Setting via P0-12 1: AI1 2: AI2 3: AI3 4: PULSE pulse setting 5: Communication reference	0	★	0xF00B
P0- 12	Upper-limit Frequency	Lower-limit Frequency (P0- 14) ~ Maximum Frequency (P0- 10)	50.00 Hz	☆	0xF00C
P0- 13	Upper-limit Frequency Offset	0.00 Hz ~ Maximum Frequency (P0-10)	0.00 Hz	☆	0xF00D

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P0- 14	Lower-limit Frequency	0.00 Hz ~ Upper- limit Frequency (P0- 12)	0.00 Hz	☆	0xF00E
P0- 15	Carrier Frequency	0.5 kHz ~ 16.0 kHz	Model- depende nt	☆	0xF00F
P0- 16	Carrier Frequency Temperature Adjustment	0: No 1: Yes	1	☆	0xF010
P0- 17	Acceleration Time 1	0.00 s ~ 650.00 s (P0- 19=2) 0.0 s ~ 6500.0 s (P0- 19=1) 0 s ~ 6500 s (P0- 19=0)	Model- depende nt	☆	0xF011
P0- 18	Deceleration Time 1	0.00 s ~ 65000 s	Model- depende nt	☆	0xF012
P0- 19	Acc/Dec Time Unit	0: 1 s 1: 0.1 s 2: 0.01 s	1	★	0xF013
P0- 21	Offset Frequency of Auxiliary Frequency Source for Superposition	0.00 Hz ~ Maximum Frequency (P0- 10)	0.00 Hz	☆	0xF015
P0- 22	Frequency Command Resolution	1: 0.1 Hz 2: 0.01 Hz	2	★	0xF016
P0- 23	Memory Selection for Digital- Set Frequency at Stop	0: No memory 1: Memory	1	☆	0xF017

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P0- 24	Motor Selection	0: Motor 1 1: Motor 2	0	★	0xF018
P0- 25	Acc/Dec Reference Frequency	0: Maximum Frequency(P0- 10) 1: Set Frequency 2: 100Hz	0	★	0xF019
P0- 26	UP/DOWN Reference for Frequency Command during Running	0: Running Frequency 1: Set Frequency	0	★	0xF01A
P0- 27	Command-source Bound Frequency-source Selection	Unit digit: Keypad-command bound frequency-source selection 0: No binding 1: Digital-set frequency 2: AI1 3: AI2 4: AI3 5: PULSE pulse setting (DI5) 6: Multi-speed 7: Simple PLC 8: PID 9: Communication reference Tens digit: Terminal-command bound frequency-source selection Hundred digit: Communication-command bound frequency-source selection Thousand digit: Auto-run bound frequency-source selection	0000	☆	0xF01B
P0- 28	Communication Expansion Card Type	0: Modbus Communication Card 1: Bridge Communication	0	☆	0xF01C
P1 Parameters of First Electric Motor					

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P1- 00	Motor Type Selection	0: General Asynchronous Motor 1: Variable-frequency Asynchronous Motor 2: Permanent Magnet Synchronous Motor	Model-dependent	★	0xF100
P1- 01	Motor Rated Power	0.1 kW ~ 1000.0 kW	Model-dependent	★	0xF101
P1- 02	Motor Rated Voltage	1 V ~ 2000 V	Model-dependent	★	0xF102
P1- 03	Motor Rated Current	0.01 A ~ 655.35 A (Inverter Power ≤ 55 kW) 0.1 A ~ 6553.5 A (Inverter Power > 55 kW)	Model-dependent	★	0xF103
P1- 04	Motor Rated Frequency	0.01 Hz ~ Maximum Frequency	Model-dependent	★	0xF104
P1- 05	Motor Rated Speed	1 rpm ~ 6535 rpm	Model-dependent	★	0xF105
P1- 06	Asynchronous Motor Stator Resistance	0.001 Ω ~ 65.535 Ω (Inverter Power ≤ 55 kW) 0.0001 Ω ~ 6.5535 Ω (Inverter Power > 55 kW)	Tuning Parameter	★	0xF106
P1- 07	Asynchronous Motor Rotor Resistance	0.001 Ω ~ 65.535 Ω (Inverter Power ≤ 55 kW) 0.0001 Ω ~ 6.5535 Ω (Inverter Power > 55 kW)	Tuning Parameter	★	0xF107
P1- 08	Asynchronous Motor Leakage Inductance	0.01 mH ~ 655.35 mH (Inverter Power ≤ 55 kW) 0.001 mH ~ 65.535 mH (Inverter Power > 55 kW)	Tuning Parameter	★	0xF108

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P1- 09	Asynchronous Motor Mutual Inductance	0.1 mH ~ 6553.5 mH (Inverter Power ≤ 55 kW) 0.01 mH ~ 655.35 mH (Inverter Power > 55 kW)	Tuning Parameter	★	0xF109
P1- 10	Asynchronous Motor No-load Current	0.01 A ~ P1- 03 (Inverter Power ≤ 55 kW) 0.1 A ~ P1- 03 (Inverter Power > 55 kW)	Tuning Parameter	★	0xF10A
P1- 16	Synchronous Motor Stator Resistance	0.001 Ω ~ 65.535 Ω (Drive Power ≤ 55 kW) 0.0001 Ω ~ 6.5535 Ω (Drive Power > 55 kW)	Tuning Parameter	★ (E)	0xF110
P1- 17	Synchronous Motor D-axis Inductance	0.01 mH ~ 655.35 mH (Drive Power ≤ 55 kW) 0.001 mH ~ 65.535 mH (Drive Power > 55 kW)	Tuning Parameter	★ (E)	0xF111
P1- 18	Synchronous Motor Q-axis Inductance	0.01 mH ~ 655.35 mH (Drive Power ≤ 55 kW) 0.001 mH ~ 65.535 mH (Drive Power > 55 kW)	Tuning Parameter	★ (E)	0xF112
P1- 20	Synchronous Motor Back EMF	0.1 V ~ 6553.5 V	Tuning Parameter	★ (E)	0xF114
P1- 22	Synchronous Motor No-load Current	0% ~ 180%	5%	★ (E)	0xF116
P1- 27	Encoder Line Count	1 ~ 65535	1024	★	0xF11B
P1- 28	Encoder Type	0: ABZ Incremental Encoder 1: UVW Incremental Encoder 2: Resolver 3: Sine-Cosine Encoder 4: Reduced-wire UVW Encoder	0	★	0xF11C

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P1- 30	AB Phase Sequence of ABZ Incremental Encoder	0: Forward 1: Reverse	0	★	0xF11E
P1- 31	Encoder Installation Angle	0.0 ~ 359.9°	0.0°	★	0xF11F
P1- 32	UVW Phase Sequence of UVW Encoder	0: Forward 1: Reverse	0	★	0xF120
P1- 33	UVW Encoder Offset Angle	0.0 ~ 359.9°	0.0°	★	0xF121
P1- 34	Resolver Pole Pairs	1 ~ 65535	1	★	0xF122
P1- 36	Speed Feedback PG Disconnection Detection Time	0.0s: No action 0.1s ~ 10.0s	0.0	★	0xF124
P1- 37	Tuning Selection	0: No operation 1: Static tuning for asynchronous motor 2: Complete tuning for asynchronous motor 3: Static complete tuning for asynchronous motor 11: Static auto-tuning for synchronous motor (E) 12: No-load dynamic auto-tuning for synchronous motor (E)	0	★	0xF125
P2 Vector Control Parameters of First Electric Motor					

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P2- 00	Speed Loop Proportional Gain 1	1 ~ 100	30(E):20	☆	0xF200
P2- 01	Speed Loop Integration Time 1	0.01 s ~ 10.00 s	0.50 s	☆	0xF201
P2- 02	Switch Frequency 1	0.00 ~ F2- 05	5.00 Hz	☆	0xF202
P2- 03	Speed Loop Proportional Gain 2	1 ~ 100	20(E):10	☆	0xF203
P2- 04	Speed Loop Integration Time 2	0.01 s ~ 10.00 s	1.00 s	☆	0xF204
P2- 05	Switch Frequency 2	P2- 02 ~ Maximum Frequency	10.00 Hz	☆	0xF205
P2- 06	Vector Control Slip Gain	50% ~ 200%	100%	☆	0xF206
P2- 07	Speed Loop Filter Time Constant	0.000 s ~ 1.00 s	0.015 s	☆	0xF207
P2- 09	Torque Limit Reference Selection under Speed Control Mode	0: Set by Parameter P2- 10 1: AI1 2: AI2 3: AI3 4: Pulse (DI5) 5: Communication reference 6: MIN(AI1, AI2) 7: MAX(AI1, AI2) Full scale of option 1~7 corresponds to P2- 10	0	☆	0xF209

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P2- 10	Digital Setting of Torque Limit under Speed Control Mode	0.0% ~ 200.0%	150.0%	☆	0xF20A
P2- 11	Generating Torque Limit Reference Selection under Speed Control Mode	0: Set by Parameter P2- 12 1: AI1 2: AI2 3: AI3 4: PULSE pulse setting 5: Communication reference 6: MIN(AI1, AI2) 7: MAX(AI1, AI2) 8: Set by Parameter P2- 12 Full scale of option 1~7 corresponds to P2- 12	0	☆	0xF20B
P2- 12	Digital Setting of Generating Torque Limit under Speed Control Mode	0.0% ~ 200.0%	150.0%	☆	0xF20C
P2- 13	Excitation Regulation Proportional Gain	0 ~ 60000	2000	☆	0xF20D
P2- 14	Excitation Regulation Integral Gain	0 ~ 60000	1300	☆	0xF20E
P2- 15	Torque Regulation Proportional Gain	0 ~ 60000	2000	☆	0xF20F

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P2- 16	Torque Regulation Integral Gain	0 ~ 60000	1300	☆	0xF210
P2- 17	Speed Loop Integral Property	0: Enabled 1: Disabled	0	☆	0xF211
P2- 18	SPM Field Weakening Mode	0 ~ 2	1	★ (E)	0xF212
P2- 19	SPM Field Weakening Coefficient	1 ~ 50	5	☆ (E)	0xF213
P2- 20	Overmodulation Voltage Coefficient	100% ~ 110%	105%	☆	0xF214
P2- 21	Constant Power Region Torque Coefficient	50% ~ 200%	100%	☆	0xF215
P2- 23	SPM Output Voltage Saturation Margin	0 ~ 50%	5%	☆ (E)	0xF217
P2- 24	Initial Position Detection Current	10% ~ 180%	80%	☆ (E)	0xF218

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P2- 25	Initial Position Detection Enable	0 ~ 3	1	☆ (E)	0xF219
P2- 26	Speed Loop Mode Selection	0 ~ 1	0	☆ (E)	0xF21A
P2- 27	SPM Salient Ratio Adjustment Gain	50 ~ 500	100	☆ (E)	0xF21B
P2- 28	Maximum Torque per Ampere Control Enable	0 ~ 1	0	☆ (E)	0xF21C
P2- 29	Feedforward Compensation Mode	0 ~ 2	0	☆ (E)	0xF21D
P2- 30	Current Loop KP during Tuning	0 ~ 100	6	☆ (E)	0xF21E
P2- 31	Current Loop KI during Tuning	0 ~ 100	6	☆ (E)	0xF21F
P2- 32	Z Signal Correction Enable	0 ~ 1	1	☆ (E)	0xF220

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P2- 33	Synchronous Motor SVC Speed Filter Level	10 ~ 1000	100	☆ (E)	0xF221
P2- 34	Synchronous Motor SVC Speed Estimation Proportional Gain	5 ~ 200	40	☆ (E)	0xF222
P2- 35	Synchronous Motor SVC Speed Estimation Integral Gain	5 ~ 500	30	☆ (E)	0xF223
P2- 36	Synchronous Motor SVC Initial Excitation Current	0 ~ 150%	30%	☆ (E)	0xF224
P2- 37	Synchronous Motor SVC Minimum Carrier Frequency	0.8 ~ 100.0	1.5	☆ (E)	0xF225
P2- 38	Low Frequency Operation Mode	0 ~ 1	0	☆ (E)	0xF226
P2- 39	Low Frequency Activation Frequency	0.00 ~ 10.00	2	☆ (E)	0xF227

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P2- 40	Low Frequency Frequency Step	0.0001 ~ 1.0000	0.001	☆ (E)	0xF228
P2- 41	Low Frequency Braking Current	30 ~ 120	80	☆ (E)	0xF229
P2- 42	Synchronous Motor SVC Speed Tracking	0 ~ 1	0	☆ (E)	0xF22A
P2- 43	Zero Servo Enable	0 ~ 1	0	☆ (E)	0xF22B
P2- 44	Switch Frequency	0.00 ~ 655.35	0.30	☆ (E)	0xF22C
P2- 45	Zero Servo Speed Loop Proportional Gain	1 ~ 100	10	☆ (E)	0xF22D
P2- 46	Zero Servo Speed Loop Integration Time	0.01 ~ 10.00	0.50	☆ (E)	0xF22E
P2- 47	Reverse Rotation Prohibition at Stop	0 ~ 1	0	☆ (E)	0xF22F
P2- 48	Stop Position Angle	0.0 ~ 10.0	0.8	☆ (E)	0xF230
P2- 49	On-line Tuning Enable	0: Disabled 1: Tune before first run after power-on 2: Tune before each run	0	☆ (E)	0xF231

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P2- 50	On-line Back EMF Identification	0: Disabled 1: Enabled	0	☆ (E)	0xF232
P2- 51	Initial Position Compensation Angle	0.0 ~ 359.9	0.0	☆ (E)	0xF233
P3 V/F Control Parameters					
P3- 00	V/F Curve Setting	0: Linear V/F 1: Multi-point V/F 2: Square V/F 3: 1.2-power V/F 4: 1.4-power V/F 6: 1.6-power V/F 8: 1.8-power V/F 9: Reserved 10: Full V/F Separation Mode 11: Semi V/F Separation Mode	0	★	0xF300
P3- 01	Torque Boost	0.0%: (Auto torque boost) 0.1% ~ 30.0%	Model-dependent	☆	0xF301
P3- 02	Torque Boost Cut-off Frequency	0.00 Hz ~ Maximum Frequency	50.00 Hz	★	0xF302
P3- 03	Multi-point V/F Frequency Point 1	0.00 Hz ~ P3- 05	0.00 Hz	★	0xF303
P3- 04	Multi-point V/F Voltage Point 1	0.0% ~ 100.0%	0.0%	★	0xF304
P3- 05	Multi-point V/F Frequency Point 2	P3- 03 ~ P3- 07	0.00 Hz	★	0xF305

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P3- 06	Multi-point V/F Voltage Point 2	0.0% ~ 100.0%	0.0%	★	0xF306
P3- 07	Multi-point V/F Frequency Point 3	P3- 05 ~ Motor Rated Frequency (P1- 04)	0.00 Hz	★	0xF307
P3- 08	Multi-point V/F Voltage Point 3	0.0% ~ 100.0%	0.0%	★	0xF308
P3- 09	V/F Slip Compensation Gain	0.0% ~ 200.0%	80.0%	☆	0xF309
P3- 10	V/F Over-excitation Gain	0 ~ 200	64	☆	0xF30A
P3- 11	V/F Oscillation Suppression Gain	0 ~ 100	Model-dependent	☆	0xF30B
P3- 13	Voltage Source for V/F Separation	0: Digital setting (P3- 14) 1: AI1 2: AI2 3: AI3 4: PULSE pulse setting (DI5) 5: Multi-step command 6: Simple PLC 7: PID 8: Communication reference Note: 100.0% corresponds to motor rated voltage	0	☆	0xF30D
P3- 14	Digital Voltage Setting for V/F Separation	0V ~ Motor Rated Voltage	0V	☆	0xF30E

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P3- 15	Voltage Rise Time for V/F Separation	0.0 s ~ 1000.0 s Note: Time for voltage change from 0V to motor rated voltage	0.0 s	☆	0xF30F
P3- 16	Voltage Decay Time for V/F Separation	0.0 s ~ 1000.0 s Note: Time for voltage change from 0V to motor rated voltage	0.0 s	☆	0xF310
P3- 17	Stop Mode for V/F Separation	0: Frequency and voltage independently decrease to 0 1: Reduce voltage to 0 first, then reduce frequency	0	☆	0xF311
P3- 18	Slip Compensation Time Constant	0.1 s ~ 10.00 s	0.50 s	☆	0xF312
P3- 19	On-line Torque Compensation Gain	80% ~ 150%	100%	☆	0xF313
P3- 29	Auto Frequency Rise Enable	0: Disabled 1: Enabled	0	★	0xF31D
P3- 30	Minimum Motoring Torque Current	10 ~ 100	50	☆	0xF31E
P3- 31	Maximum Generating Torque Current	10 ~ 100	20	☆	0xF31F
P3- 32	Auto Frequency Rise KP	0 ~ 100	50	☆	0xF320

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P3- 33	Auto Frequency Rise KI	0 ~ 100	50	☆	0xF321
P4 Digital Input Terminals					
P4- 00	DI1 Terminal Function Selection	0: No Function 1: Forward Run (FWD) or Run Command 2: Reverse Run (RVE) or Run Direction (Note: When set to 1 or 2, use with P4- 11, refer to function parameter description) 3: 3- wire Run Control 4: Forward Jog (FJOG) 5: Reverse Jog (RJOG) 6: Terminal UP 7: Terminal DOWN 8: Free Stop 9: Fault Reset (RESET) 10: Run Pause 11: External Fault Normally Open Input 12: Multi- segment Command Terminal 1 13: Multi- segment Command Terminal 2 14: Multi- segment Command Terminal 3 15: Multi- segment Command Terminal 4 16: Acc/Dec Time Selection Terminal 1 17: Acc/Dec Time Selection Terminal 2 18: Frequency Source Switch 19: UP/DOWN Setting Clear (Terminal, Keypad) 20: Control Command Switch Terminal 1	1	★	0xF400
P4- 01	DI2 Terminal Function Selection		2	★	0xF401
P4- 02	DI3 Terminal Function Selection		9	★	0xF402
P4- 03	DI4 Terminal Function Selection		12	★	0xF403
P4- 04	DI5 Terminal Function Selection		13	★	0xF404
P4- 05	DI6 Terminal Function Selection		0	★	0xF405
P4- 06	DI7 Terminal Function Selection		0	★	0xF406
P4- 07	DI8 Terminal Function Selection		0	★	0xF407
P4- 08	DI9 Terminal Function Selection		0	★	0xF408

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P4- 09	DI10 Terminal Function Selection	21: Acc/Dec Disable 22: PID Pause 23: PLC State Reset 24: Swing Frequency Pause 25: Counter Input 26: Counter Reset 27: Length Count Input 28: Length Reset 29: Torque Control Disable 30: PULSE Frequency Input (Valid only for DI5) 31: Reserved 32: Immediate DC Braking 33: External Fault Normally Closed Input 34: Frequency Modification Enable 35: PID Action Direction Reverse 36: External Stop Terminal 1 37: Control Command Switch Terminal 2 38: PID Integral Pause 39: Switch between Frequency Source X and Preset Frequency 40: Switch between Frequency Source Y and Preset Frequency 41: Motor Selection Terminal 1 42: Motor Selection Terminal 2 43: PID Parameter Switch 44: User-defined Fault 1 45: User-defined Fault 2 46: Speed / Torque Control Switch 47: Emergency Stop 48: External Stop Terminal 2 49: Deceleration DC Braking 50: Current Run Time Clear 51: 2- wire / 3- wire Switch 52- 59: Reserved	0	★	0xF409

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P4- 10	DI Digital Input Terminal Filter Time	0.000 s ~ 1.000 s	0.010 s	☆	0xF40A
P4- 11	Terminal Command Mode	0: 2-wire Mode 1 1: 2-wire Mode 2 2: 3-wire Mode 1 3: 3-wire Mode 2	0	★	0xF40B
P4- 12	Terminal UP/DOWN Rate of Change	0.001 Hz/s ~ 65.535 Hz/s	1.00 Hz/s	☆	0xF40C
P4- 13	AI1 Minimum Input	0.00 V ~ P4- 15	0.00 V	☆	0xF40D
P4- 14	Setting Corresponding to AI1 Minimum Input	-100.0% ~ +100.0%	0.0%	☆	0xF40E
P4- 15	AI1 Maximum Input	P4- 13 ~ +10.00 V	10.00 V	☆	0xF40F
P4- 16	Setting Corresponding to AI1 Maximum Input	-100.0% ~ +100.0%	100.0%	☆	0xF410
P4- 17	AI1 Filter Time	0.00 s ~ 10.00 s	0.10 s	☆	0xF411
P4- 18	AI2 Minimum Input	0.00 V ~ P4- 20	0.00 V	☆	0xF412
P4- 19	Setting Corresponding to AI2 Minimum Input	-100.0% ~ +100.0%	0.0%	☆	0xF413
P4- 20	AI2 Maximum Input	P4- 18 ~ +10.00 V	10.00 V	☆	0xF414

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P4- 21	Setting Corresponding to AI2 Maximum Input	-100.0% ~ +100.0%	100.0%	☆	0xF415
P4- 22	AI2 Filter Time	0.00 s ~ 10.00 s	0.10 s	☆	0xF416
P4- 23	AI3 Minimum Input	-10.00 V ~ P4- 25	0.5 V	☆	0xF417
P4- 24	Setting Corresponding to AI3 Minimum Input	-100.0% ~ +100.0%	0.0%	☆	0xF418
P4- 25	AI3 Maximum Input	P4- 23 ~ +10.00 V	6.6 V	☆	0xF419
P4- 26	Setting Corresponding to AI3 Maximum Input	-100.0% ~ +100.0%	100.0%	☆	0xF41A
P4- 27	AI3 Filter Time	0.00 s ~ 10.00 s	0.50 s	☆	0xF41B
P4- 28	PULSE Minimum Input	0.00 kHz ~ P4- 30	0.00 kHz	☆	0xF41C
P4- 29	Setting Corresponding to PULSE Minimum Input	-100.0% ~ 100.0%	0.0%	☆	0xF41D
P4- 30	PULSE Maximum Input	P4- 28 ~ 100.00 kHz	50.00 kHz	☆	0xF41E
P4- 31	Setting Corresponding to PULSE Maximum Input	-100.0% ~ 100.0%	100.0%	☆	0xF41F

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P4- 32	PULSE Filter Time	0.00 s ~ 10.00 s	0.002 s	☆	0xF420
P4- 33	Analog Input Curve Selection	Unit digit: AI1 curve selection 1: Curve 1 (2 points, refer to P4- 13~P4- 16) 2: Curve 2 (2 points, refer to P4- 18~P4- 21) 3: Curve 3 (2 points, refer to P4- 23~P4- 26) 4: Curve 4 (4 points, refer to H6- 00~H6- 07) 5: Curve 5 (4 points, refer to H6- 08~H6- 15) Tens digit: AI2 curve selection, same as above Hundred digit: AI3 curve selection, same as above	321	☆	0xF421
P4- 34	Setting Selection when Analog Input below Minimum Input	Unit digit: AI1 setting selection below minimum input 0: Corresponding to minimum input setting 1: 0.0% Tens digit: AI2 setting selection below minimum input, same as above Hundred digit: AI3 setting selection below minimum input, same as above	000	☆	0xF422
P4- 35	DI1 Delay Time	0.0 s ~ 3600.0 s	0.0 s	★	0xF423
P4- 36	DI2 Delay Time	0.0 s ~ 3600.0 s	0.0 s	★	0xF424
P4- 37	DI3 Delay Time	0.0 s ~ 3600.0 s	0.0 s	★	0xF425

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P4- 38	DI Digital Input Terminal Active Mode Selection 1	0: High Level Active 1: Low Level Active Unit digit: DI1 Tens digit: DI2 Hundred digit: DI3 Thousand digit: DI4 Ten-thousand digit: DI5	00000	★	0xF426
P4- 39	DI Digital Input Terminal Active Mode Selection 2	0: High Level Active 1: Low Level Active Unit digit: DI6 Tens digit: DI7 Hundred digit: DI8 Thousand digit: DI9 Ten-thousand digit: DI10	00000	★	0xF427
P5 Digital Output Terminals					
P5- 00	FM & AO2 Terminal Output Mode Selection	Unit digit: FM terminal function selection 0: Pulse Output 1: Digital Output (TA2-TB2-TC2) Tens digit: AO2 terminal function selection 0: Analog Output 1: Digital Output (TA3-TB3-TC3)	11	☆	0xF500
P5- 01	Relay Output Function Selection (TA2-TB2-TC2)	0: No Output 1: Inverter Running 2: Fault Output (Fault for Free Stop)	0	☆	0xF501
P5- 02	Control Board Relay Function Selection (TA1-TB1-TC1)	3: Frequency Level Detection FDT1 Output 4: Frequency Reached 5: Zero-speed Running (No output when stopped) 6: Motor Overload Pre-alarm	2	☆	0xF502
P5- 03	Relay Output	7: Inverter Overload Pre-alarm	0	☆	0xF503

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
	Function Selection (TA3-TB3-TC3)	8: Set Counter Value Reached 9: Specified Counter Value Reached 10: Length Reached			
P5- 04	D01 Output Function Selection	11: PLC Cycle Completed 12: Cumulative Running Time Reached 13: Frequency Limiting 14: Torque Limiting 15: Ready for Operation 16: AI1 > AI2 17: Upper Limit Frequency Reached 18: Lower Limit Frequency Reached (Related to Run Status) 19: Undervoltage Status Output 20: Communication Setting 21: Positioning Completed (Reserved) 22: Positioning Near (Reserved) 23: Zero-speed Running 2 (Output also when stopped)	1	☆	0xF504
P5- 05	Expansion Card D02 Output Function Selection	24: Cumulative Power-on Time Reached 25: Frequency Level Detection FDT2 Output 26: Frequency 1 Reached Output 27: Frequency 2 Reached Output 28: Current 1 Reached Output 29: Current 2 Reached Output 30: Timer Timeout Output 31: AI1 Input Out of Range 32: Load Loss 33: Reverse Running 34: Zero Current Status 35: Module Temperature Reached 36: Output Current Out of Range 37: Lower Limit Frequency Reached (Output also when	4	☆	0xF505

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
		stopped) 38: Alarm Output (All Faults) 39: Motor Over-temperature Pre-alarm 40: Current Run Time Reached 41: Non-undervoltage Fault Output (Fault for Free Stop) 45: Brake Output			
P5- 06	FMP Output Function Selection	0: Running Frequency 1: Set Frequency 2: Output Current	0	☆	0xF506
P5- 07	A01 Output Function Selection	(100.0% corresponds to 2 × motor rated current) 3: Output Torque (Absolute Torque Value)	0	☆	0xF507
P5- 08	A02 Output Function Selection	4: Output Power 5: Output Voltage 6: PULSE Input (100.0% corresponds to 100.0kHz) 7: AI1 8: AI2 9: AI3 (Expansion Card) 10: Length 11: Counter Value 12: Communication Setting 13: Motor Speed 14: Output Current (100.0% corresponds to 1000.0A) 15: Output Voltage (100.0% corresponds to 1000.0V) 16: Output Torque (Actual Torque Value)	1	☆	0xF508
P5- 09	FMP Maximum Output Frequency	0.01 kHz ~ 100.00 kHz	50.00 kHz	☆	0xF509
P5- 10	A01 Offset Coefficient	-100.0% ~ +100.0%	0.0%	☆	0xF50A

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P5- 11	A01 Gain	-10.00 ~ +10.00	1.00	☆	0xF50B
P5- 12	A02 Offset Coefficient	-100.0% ~ +100.0%	0.0%	☆	0xF50C
P5- 13	A02 Gain	-10.00 ~ +10.00	1.00	☆	0xF50D
P5- 17	PMR Output Delay Time	0.0 s ~ 3600.0 s	0.0 s	☆	0xF511
P5- 18	TA1-TB1-TC1 Output Delay Time	0.0 s ~ 3600.0 s	0.0 s	☆	0xF512
P5- 19	TA2-TB2-TC2 Output Delay Time	0.0 s ~ 3600.0 s	0.0 s	☆	0xF513
P5- 20	D01 Output Delay Time	0.0 s ~ 3600.0 s	0.0 s	☆	0xF514
P5- 21	D02 Output Delay Time	0.0 s ~ 3600.0 s	0.0 s	☆	0xF515
P5- 22	D0 Output Terminal Active State Selection	0: Positive Logic 1: Negative Logic Unit digit: FMR Tens digit: TA1-TB1-TC1 Hundred digit: TA3-TB3-TC3 Thousand digit: D01 (TA2-TB2-TC2) Ten-thousand digit: D02	00000	☆	0xF516
P5- 24	FMR Delay Turn-off Time	0.0 s ~ 3600.0 s	0.0 s	☆	0xF518
P5- 25	TA1-TB1-TC1 Delay Turn-off Time	0.0 s ~ 3600.0 s	0.0 s	☆	0xF519

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P5- 26	TA2-TB2-TC2 Delay Turn-off Time	0.0 s ~ 3600.0 s	0.0 s	☆	0xF51A
P5- 27	D01 Delay Turn-off Time	0.0 s ~ 3600.0 s	0.0 s	☆	0xF51B
P5- 28	D02 Delay Turn-off Time	0.0 s ~ 3600.0 s	0.0 s	☆	0xF51C
P6 Start/Stop Control					
P6- 00	Start Mode	0: Direct Start 1: Speed Tracking Restart 2: Pre-excitation Start	0	☆	0xF600
P6- 01	Speed Tracking Mode	0: Start from Stop Frequency 1: Start from Zero Speed 2: Start from Maximum Frequency 3: Start at Current Frequency, Valid for V/F Control	0	★	0xF601
P6- 02	Speed Tracking Response Speed	1 ~ 100	20	☆	0xF602
P6- 03	Start Frequency	0.00 Hz ~ 10.00 Hz	0.00 Hz	☆	0xF603
P6- 04	Start Frequency Hold Time	0.0 s ~ 100.0 s	0.0 s	★	0xF604
P6- 05	Start DC Braking Current / Pre-excitatio n Current	0% ~ 100%	0%	★	0xF605

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P6- 06	Start DC Braking Time / Pre-excitation Time	0.0 s ~ 100.0 s	0.0 s	★	0xF606
P6- 07	Acceleration / Deceleration Mode	0: Linear Acc/Dec 1: S-curve Acc/Dec Type A 2: S-curve Acc/Dec Type B	0	★	0xF607
P6- 08	S-curve Initial Segment Time Ratio	0.0% ~ (100.0% - P6- 09)	30.0%	★	0xF608
P6- 09	S-curve End Segment Time Ratio	0.0% ~ (100.0% - P6- 08)	30.0%	★	0xF609
P6- 10	Stop Mode	0: Deceleration Stop 1: Free Stop	0	☆	0xF60A
P6- 11	Stop DC Braking Start Frequency	0.00 Hz ~ Maximum Frequency	0.00 Hz	☆	0xF60B
P6- 12	Stop DC Braking Wait Time	0.0 s ~ 100.0 s	0.0 s	☆	0xF60C
P6- 13	Stop DC Braking Current	0% ~ 180%	0%	☆	0xF60D
P6- 14	Stop DC Braking Time	0.0 s ~ 100.0 s	0.0 s	☆	0xF60E
P6- 15	Braking Duty Ratio	0% ~ 100%	100%	☆	0xF60F

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P6- 16	Braking Resistor Activation Voltage	200.0 ~ 2000.0 V	Model-dependent	☆	0xF610
P6- 18	Speed Tracking Current Magnitude	30% ~ 200%	Model-dependent	★	0xF611
P6- 19	Speed Tracking Closed-loop Current KP	10 ~ 1000	500	★	0xF612
P6- 20	Speed Tracking Closed-loop Current KI	5 ~ 1000	800	★	0xF613
P6- 21	Speed Tracking Voltage Rise Time	0 ~ 3.0	1.0	★	0xF614
P6- 22	Demagnetization Time	0 ~ 5.00	1.00	★	0xF615
P6- 24	Stop Precise Stop Frequency	0.00 Hz ~ 20.00 HzWhen set to non-zero frequency, the preset position function is enabled	0.00 Hz	☆	0xF617
P6- 25	Precise Stop Signal Failure Extension Time	0.0 s ~ 100.0 s	30.0 s	☆	0xF618

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P6- 26	Precise Stop Frequency Deceleration Time	0.0 s ~ 100.0 s	1.0 s	☆	0xF619
P7 Keypad & Display					
P7- 00	Potentiometer Frequency Adjustment Resolution Selection	0: 0.01 Hz 1: 0.1 Hz 2: 1 Hz 3: 10 Hz	2	●	0xF700
P7- 01	JOG/QUICK Key Function Selection	0: Menu Mode Switch 1: Switch between Keypad Command Channel and Remote Command Channel (Terminal Command Channel or Communication Command Channel) 2: Forward / Reverse Switch 3: Forward Jog 4: Reverse Jog	3	★	0xF701
P7- 02	STOP/RESET Key Function	0: STOP/RESET stop function valid only under keypad control mode 1: STOP/RESET stop function valid under any control mode	1	☆	0xF702
P7- 03	LED Run Display Parameter 1	0000 ~ FFFF Bit00: Running Frequency (Hz) Bit01: Set Frequency (Hz) Bit02: DC Bus Voltage (V) Bit03: Output Voltage (V) Bit04: Output Current (A) Bit05: Output Power (kW) Bit06: Output Torque (%) Bit07: DI Input Status Bit08: DO Output Status Bit09: AI1 Voltage (V) Bit10: AI2 Voltage (V)	1F	☆	0xF703

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
		Bit11: AI3 Voltage (V) Bit12: Counter Value Bit13: Length Value Bit14: Load Speed Display Bit15: PID Setpoint			
P7- 04	LED Run Display Parameter 2	0000 ~ FFFF Bit00: PID Feedback Bit01: PLC Stage Bit02: PULSE Input Frequency (kHz) Bit03: Running Frequency 2 (Hz) Bit04: Remaining Run Time Bit05: Pre-calibration AI1 Voltage (V) Bit06: Pre-calibration AI2 Voltage (V) Bit07: Pre-calibration AI3 Voltage (V) Bit08: Motor Speed Bit09: Current Power-on Time (Hour) Bit10: Current Run Time (Min) Bit11: PULSE Input Frequency (Hz) Bit12: Communication Set Value Bit13: Encoder Feedback Speed (Hz) Bit14: Main Frequency X Display (Hz) Bit15: Auxiliary Frequency Y Display (Hz)	0	☆	0xF704
P7- 05	LED Stop Display Parameter	0000 ~ FFFF Bit00: Set Frequency (Hz) Bit01: DC Bus Voltage (V) Bit02: DI Input Status Bit03: DO Output Status Bit04: AI1 Voltage (V) Bit05: AI2 Voltage (V)	33	☆	0xF705

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
		Bit06: AI3 Voltage (V) Bit07: Counter Value Bit08: Length Value Bit09: PLC Stage Bit10: Load Speed Bit11: PID Setpoint Bit12: PULSE Input Frequency (kHz)			
P7- 06	Load Speed Display Coefficient	0.0001 ~ 6.5000	1.0000	☆	0xF706
P7- 07	Inverter Module Heatsink Temperature	0.0℃ ~ 100.0℃	—	●	0xF707
P7- 08	Cumulative Running Time (Non-resettable)	0h ~ 65535h	—	●	0xF708
P7- 09	Cumulative Running Time	0h ~ 65535h	—	●	0xF709
P7- 10	Product ID	—	—	●	0xF70A
P7- 11	Software Version Number	—	—	●	0xF70B
P7- 12	Decimal Digits for Load Speed Display	20: 0 decimal place 21: 1 decimal place 22: 2 decimal places 23: 3 decimal places	21	☆	0xF70C
P7- 13	Cumulative Power-on Time	0h ~ 65535h	—	●	0xF70D

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P7- 14	Cumulative Power Consumption	0kW ~ 65535 kWh	—	●	0xF70E
P7- 17	Second Row LED Display Parameter	0-16 0: Running Frequency (Hz) 1: Set Frequency (Hz) 2: DC Bus Voltage (V) 3: Output Voltage (V) 4: Output Current (A) 5: Output Power (kW) 6: Output Torque (%) 7: DI Digital Input Terminal Status 8: DO Output Status 9: AI1 Voltage (V) 10: AI2 Voltage (V) 11: AI3 Voltage (V) 12: Counter Value 13: Length Value 14: Load Speed Display 15: PID Setpoint 16: PID Feedback	0	☆	0xF711
P7- 18	UP/DOWN Effective Variable Display Selection	0: Set Variable 1: Current Variable Function: Whether to switch the current displayed variable to the set variable when modified by UP/DOWN.	0	☆	0xF712
P8 Auxiliary Function Parameters					
P8- 00	Jog Operating Frequency	0.00 Hz ~ Maximum Frequency	2.00 Hz	☆	0xF800
P8- 01	Jog Acceleration Time	0.0 s ~ 6500.0 s	20.0 s	☆	0xF801

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P8- 02	Jog Deceleration Time	0.0 s ~ 6500.0 s	20.0 s	☆	0xF802
P8- 03	Acceleration Time 2	0.0 s ~ 6500.0 s	Model-dependent	☆	0xF803
P8- 04	Deceleration Time 2	0.0 s ~ 6500.0 s	Model-dependent	☆	0xF804
P8- 05	Acceleration Time 3	0.0 s ~ 6500.0 s	Model-dependent	☆	0xF805
P8- 06	Deceleration Time 3	0.0 s ~ 6500.0 s	Model-dependent	☆	0xF806
P8- 07	Acceleration Time 4	0.0 s ~ 6500.0 s	Model-dependent	☆	0xF807
P8- 08	Deceleration Time 4	0.0 s ~ 6500.0 s	Model-dependent	☆	0xF808
P8- 09	Skip Frequency 1	0.00 Hz ~ Maximum Frequency	0.00 Hz	☆	0xF809
P8- 10	Skip Frequency 2	0.00 Hz ~ Maximum Frequency	0.00 Hz	☆	0xF80A
P8- 11	Skip Frequency Amplitude	0.00 Hz ~ Maximum Frequency	0.00 Hz	☆	0xF80B
P8- 12	Forward/Reverse Dead Band Time	0.0 s ~ 3000.0 s	0.0 s	☆	0xF80C

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P8- 13	Reverse Control Enable	0: Enable1: Disable	0	☆	0xF80D
P8- 14	Operation Mode when Set Frequency below Minimum Frequency	0: Run at minimum frequency 1: Stop 2: Zero-speed Operation	0	☆	0xF80E
P8- 15	Droop Control	0.00 Hz ~ 10.00 Hz	0.00 Hz	☆	0xF80F
P8- 16	Set Cumulative Power-on Time Threshold	0h ~ 65000h	0h	☆	0xF810
P8- 17	Set Cumulative Running Time Threshold	0h ~ 65000h	0h	☆	0xF811
P8- 18	Start Protection Selection	0: No protection 1: Protection	0	☆	0xF812
P8- 19	Frequency Detection Value (FDT1)	0.00 Hz ~ Maximum Frequency	50.00 Hz	☆	0xF813
P8- 20	Frequency Detection Hysteresis (FDT1)	0.0% ~ 100.0% (FDT1 level)	5.0%	☆	0xF814
P8- 21	Frequency Reached Detection Width	0.0% ~ 100.0% (Maximum frequency)	0.0%	☆	0xF815

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P8- 22	Skip Frequency Validity during Acc/Dec Process	0: Invalid 1: Valid	0	☆	0xF816
P8- 25	Switch Frequency Point between Acceleration Time 1 and Acceleration Time 2	0.00Hz ~ Maximum Frequency	0.00Hz	☆	0xF819
P8- 26	Switch Frequency Point between Deceleration Time 1 and Deceleration Time 2	0.00Hz ~ Maximum Frequency	0.00Hz	☆	0xF81A
P8- 27	Terminal Jog Priority	0: Invalid 1: Valid 2: After jog invalid during running, enter deceleration stop state	0	☆	0xF81B
P8- 28	Frequency Detection Value (FDT2)	0.00Hz ~ Maximum Frequency	50.00 Hz	☆	0xF81C
P8- 29	Frequency Detection Hysteresis (FDT2)	0.0% ~ 100.0% (FDT2 level)	5.0%	☆	0xF81D

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P8- 30	Arbitrary Reach Frequency Detection Value 1	0.00 Hz ~ Maximum Frequency	50.00 Hz	☆	0xF81E
P8- 31	Arbitrary Reach Frequency Detection Width 1	0.0% ~ 100.0% (Maximum frequency)	0.0%	☆	0xF81F
P8- 32	Arbitrary Reach Frequency Detection Value 2	0.00 Hz ~ Maximum Frequency	50.00 Hz	☆	0xF820
P8- 33	Arbitrary Reach Frequency Detection Width 2	0.0% ~ 100.0% (Maximum frequency)	0.0%	☆	0xF821
P8- 34	Zero Current Detection Level	0.0% ~ 300.0%, 100.0% corresponds to motor rated current	5.0%	☆	0xF822
P8- 35	Zero Current Detection Delay Time	0.01 s ~ 600.00 s	0.10 s	☆	0xF823
P8- 36	Output Current Over-limit Value	0.0% (No detection) 0.1% ~ 300.0% (Motor rated current)	200.0%	☆	0xF824
P8- 37	Output Current Over-limit Detection Delay Time	0.00 s ~ 600.00 s	0.00 s	☆	0xF825

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P8- 38	Arbitrary Reach Current 1	0.0% ~ 300.0% (Motor rated current)	100.0%	☆	0xF826
P8- 39	Arbitrary Reach Current 1 Width	0.0% ~ 300.0% (Motor rated current)	0.0%	☆	0xF827
P8- 40	Arbitrary Reach Current 2	0.0% ~ 300.0% (Motor rated current)	100.0%	☆	0xF828
P8- 41	Arbitrary Reach Current 2 Width	0.0% ~ 300.0% (Motor rated current)	0.0%	☆	0xF829
P8- 42	Timer Function Selection	0: Invalid 1: Valid	0	☆	0xF82A
P8- 43	Timer Run Time Selection	0: Set by P8-44 1: AI1 2: AI2 3: AI3 (10V of analog input range corresponds to P8-44)	0	☆	0xF82B
P8- 44	Timer Running Time	0.0Min ~ 6500.0Min	0.0Min	☆	0xF82C
P8- 45	AI1 Input Voltage Protection Lower Limit	0.00V ~ P8-46	3.10V	☆	0xF82D
P8- 46	AI1 Input Voltage Protection Upper Limit	P8-45 ~ 10.00V	6.80V	☆	0xF82E

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P8- 47	Module Temperature Threshold	0℃ ~ 100℃	75℃	☆	0xF82F
P8- 48	Cooling Fan Control	0: Fan runs during operation 1: Fan always runs; fan keeps running in stop state when temperature exceeds 40℃	0	☆	0xF830
P8- 52	Input Voltage Calibration Coefficient	0 ~ 150%	100%	☆	0xF834
P8- 53	Current Run Time Threshold Setting	0.0Min ~ 6500.0Min	0.0Min	☆	0xF835
P9 Fault & Protection					
P9- 00	Motor Overload Protection Selection	0: Disable 1: Enable	1	☆	0xF900
P9- 01	Motor Overload Protection Gain	0.20 ~ 10.00	1.00	☆	0xF901
P9- 02	Motor Overload Pre-alarm Coefficient	50% ~ 100%	80%	☆	0xF902
P9- 03	Overvoltage Stall Gain	0 ~ 100	30	☆	0xF903

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P9- 04	Overvoltage Stall Protection Voltage	200 ~ 2000	760	☆	0xF904
P9- 05	Overcurrent Stall Gain	0 ~ 100	20	☆	0xF905
P9- 06	Overcurrent Stall Protection Current	50% ~ 200%	150%	☆	0xF906
P9- 07	Power-on Earth Short-circuit Protection Selection	Unit digit: Power-on earth short-circuit detection 0: Invalid 1: Valid Tens digit: Pre-run earth short-circuit detection 0: Invalid 1: Valid	11	☆	0xF907
P9- 08	V/F Field Weakening Region Multiplier Current Limiting Coefficient	50% ~ 300%	200%	☆	0xF908
P9- 09	Auto Fault Reset Times	0 ~ 20	0	☆	0xF909
P9- 10	Fault DO Action Selection during Auto Fault Reset	0: No action 1: Action	0	☆	0xF90A
P9- 11	Auto Fault Reset Interval Time	0.1s ~ 100.0s	1.0s	☆	0xF90B

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P9- 12	Input Phase Loss / Contactor Pull-in Protection Selection	Unit digit: Input phase loss protection selection 0: Disable 1: Enable Tens digit: Contactor pull-in protection selection 0: Disable 1: Enable	11	☆	0xF90C
P9- 13	Output Phase Loss Protection Selection	0: Disable 1: Enable	1	☆	0xF90D
P9- 14	1st Fault Type	0: No fault 1: Reserved 2: Overcurrent during acceleration 3: Overcurrent during Deceleration 4: Overcurrent at constant speed 5: Overvoltage during acceleration 6: Overvoltage during deceleration 7: Overvoltage at constant speed 8: Buffer resistor overload 9: Undervoltage 10: Inverter overload 11: Motor overload 12: Input phase loss 13: Output phase loss 14: Module overheat 15: External fault 16: Communication abnormality 17: Contactor abnormality 18: Current detection abnormality 19: Motor auto-tuning failure	-	●	0xF90E
P9- 15	2nd Fault Type		-	●	0xF90F
P9- 16	3rd (Latest) Fault Type		-	●	0xF910

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
		20: Encoder/PG card abnormality 21: Parameter read/write abnormality 22: Inverter hardware abnormality 23: Motor earth short circuit 24: Reserved 25: Reserved 26: Run time reached 27: User-defined fault 1 28: User-defined fault 2 29: Power-on time reached 30: Load loss 31: PID feedback loss during running 40: Fast current limit timeout 41: Motor switch during running 42: Speed deviation too large 43: Motor overspeed 45: Motor overtemperature 51: Initial position error			
P9- 17	Frequency at 3rd (Latest) Fault	000.00Hz	0.01Hz	●	0xF911
P9- 18	Current at 3rd (Latest) Fault	≤55kW	0.01A	●	0xF912
		>55kW	0.1A		
P9- 19	DC Bus Voltage at 3rd (Latest) Fault	0000.0V	0.1V	●	0xF913

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P9- 20	Input Terminal Status at 3rd (Latest) Fault	0000	1	●	0xF914
P9- 21	Output Terminal Status at 3rd (Latest) Fault	0000	1	●	0xF915
P9- 22	Inverter Status at 3rd (Latest) Fault	00000	1	●	0xF916
P9- 23	Power-on Time at 3rd (Latest) Fault	00000	1min	●	0xF917
P9- 24	Running Time at 3rd (Latest) Fault	0000.0	1min	●	0xF918
P9- 27	Frequency at 2nd Fault	000.00Hz	0.01Hz	●	0xF91B
P9- 28	Current at 2nd Fault	≤55kW	0.01A	●	0xF91C
		>55kW	0.1A		
P9- 29	DC Bus Voltage at 2nd Fault	0000.0V	0.1V	●	0xF91D

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P9- 30	Input Terminal Status at 2nd Fault	0000	1	●	0xF91E
P9- 31	Output Terminal Status at 2nd Fault	0000	1	●	0xF91F
P9- 32	Inverter Status at 2nd Fault	00000	1	●	0xF920
P9- 33	Power-on Time at 2nd Fault	00000	1min	●	0xF921
P9- 34	Running Time at 2nd Fault	0000.0	1min	●	0xF922
P9- 37	Frequency at 1st Fault	000.00Hz	0.01Hz	●	0xF925
P9- 38	Current at 1st Fault	≤55kW	0.01A	●	0xF926
		>55kW	0.1A		
P9- 39	DC Bus Voltage at 1st Fault	0000.0V	0.1V	●	0xF927
P9- 40	Input Terminal Status at 1st Fault	0000	1	●	0xF928
P9- 41	Output Terminal Status at 1st Fault	0000	1	●	0xF929
P9- 42	Inverter Status at 1st Fault	00000	1	●	0xF92A

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P9- 43	Power-on Time at 1st Fault	00000	1min	●	0xF92B
P9- 44	Running Time at 1st Fault	0000.0	1min	●	0xF92C
P9- 47	Fault Protection Action Selection 1	Unit digit: Motor Overload (11) 0: Free stop 1: Stop according to stop mode 2: Continue running Tens digit: Input Phase Loss (12) Hundreds digit: Output Phase Loss (13) Thousands digit: External Fault (15) Ten-thousands digit: Communication Abnormality (16)	00000	☆	0xF92F
P9- 48	Fault Protection Action Selection 2	Unit digit: Encoder/PG Card Abnormality (20) 0: Free stop 1: Stop according to stop mode 2: Continue running Tens digit: Function Code Read/Write Abnormality (21) Hundreds digit: Reserved Thousands digit: Motor Overtemperature (25) Ten-thousands digit: Run Time Reached (26)	00000	☆	0xF930
P9- 49	Fault Protection Action Selection 3	Unit digit: User-defined Fault 1 (27) 0: Free stop 1: Stop according to stop mode 2: Continue running Tens digit: User-defined Fault 2 (28)	00000	☆	0xF931

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
		Hundreds digit: Power-on Time Reached (29) Thousands digit: Load Loss (30) 0: Free stop 1: Deceleration stop 2: Decelerate to 7% of motor rated frequency and keep running; automatically restore to set frequency when load recovers Ten-thousands digit: PID Feedback Loss during Running (31) 0: Free stop 1: Stop according to stop mode 2: Continue running			
P9- 50	Fault Protection Action Selection 4	Unit digit: Excessive Speed Deviation (42) 0: Free stop 1: Stop according to stop mode 2: Continue running Tens digit: Motor Overspeed (43) Hundreds digit: Initial Position Error (51)	00000	☆	0xF932
P9- 54	Frequency Selection for Continuous Operation upon Fault	0: Run at current operating frequency 1: Run at set frequency 2: Run at upper limit frequency 3: Run at lower limit frequency 4: Run at abnormal backup frequency	0	☆	0xF936
P9- 55	Abnormal Backup Frequency	00.0% ~ 100.0% (100.0% corresponds to maximum frequency P0-10)	100.0%	☆	0xF937

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P9- 56	Motor Temperature Detection	000~666 (Default 000) Unit digit: AI1 as temperature sensor (Reserved) Tens digit: AI2 as temperature sensor (Reserved) Hundreds digit: AI3 as temperature sensor (Default 000) 1: PT100 (EMIO-E/EMPG-4) 2: PT1000 (EMIO-E/EMPG-4) 3: PT100 (EMPG-03) 4: PT1000 (EMPG-03) 5: KTY84 (EMPG-03) 6: PTC130 (EMPG-03)	000	☆	0xF938
P9- 57	Motor Overtemperature Protection Threshold	0℃ ~ 200℃	110℃	☆	0xF939
P9- 58	Motor Overtemperature Pre-alarm Threshold	0℃ ~ 200℃	90℃	☆	0xF93A
P9- 59	Instantaneous Power Loss Action Selection	0: Invalid 1: Decelerate 2: Deceleration stop	0	☆	0xF93B
P9- 60	Voltage for Suspend Judgment of Instant Power Loss Action	80.0% ~ 100.0%	85.0%	☆	0xF93C
P9- 61	Voltage Recovery Judgment Time for Instantaneous Power Loss	0.00s ~ 100.00s	0.50s	☆	0xF93D

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
P9- 62	Judgment Voltage for Instantaneous Power Loss Action	60.0% ~ 100.0% (Standard DC bus voltage)	80.0%	☆	0xF93E
P9- 63	Load Loss Protection Selection	0: Invalid 1: Valid	0	☆	0xF93F
P9- 64	Load Loss Detection Level	0.0 ~ 100.0%	10.0%	☆	0xF940
P9- 65	Load Loss Detection Time	0.0 ~ 60.0s	1.0s	☆	0xF941
P9- 67	Overspeed Detection Value	0.0% ~ 50.0% (Maximum frequency)	20.0%	☆	0xF942
P9- 68	Overspeed Detection Time	0.0s ~ 60.0s	1.0s	☆	0xF943
P9- 69	Excessive Speed Deviation Detection Value	0.0% ~ 50.0% (Maximum frequency)	20.0%	☆	0xF944
P9- 70	Excessive Speed Deviation Detection Time	0.0s ~ 60.0s	5.0s	☆	0xF945
P9- 74	V/F Overvoltage	5Hz ~ 50Hz	5Hz	☆	0xF949

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
	Suppression Rising Frequency				
P9- 75	Initial Position Fault Enable	Unit digit: Initial position fault 0: Disable 1: Enable Tens digit: Loaded zero point position angle tuning fault 0: Disable 1: Enable	11	☆ (E)	0xF94A
P9- 78	Initial Pulse Width Time for Initial Position Identification	5 ~ 2000	20	☆ (E)	0xF94D
P9- 79	AI2 Temperature Protection Value	0 ~ 200°C	100°C (Synchronous motor)	☆ (E)	0xF94E
P9- 80	AI3 Temperature Protection Value	0 ~ 200°C	100°C (Synchronous motor)	☆ (E)	0xF94F
PA PID Function					
PA- 00	PID Setpoint Source	0: Set by PA-01 1: AI1 2: AI2 3: AI3 4: Pulse setting via PULSE (DI5) 5: Communication setpoint 6: Multi-segment command setpoint 7: Keypad encoder	0	☆	0xFA00

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PA- 01	PID Numeric Setpoint	0.0% ~ 100.0%	50.0%	☆	0xFA01
PA- 02	PID Feedback Source	0: AI1 1: AI2 2: AI3 3: AI1-AI2 4: Pulse setting via PULSE (DI5) 5: Communication setpoint 6: AI1+AI2 7: MAX(AI1 , AI2) 8: MIN(AI1 , AI2)	0	☆	0xFA02
PA- 03	PID Action Direction	0: Positive action 1: Reverse action	0	☆	0xFA03
PA- 04	PID Setpoint & Feedback Range	0 ~ 65535	100	☆	0xFA04
PA- 05	Proportional Gain Kp1	0.0 ~ 100.0	20.0	☆	0xFA05
PA- 06	Integral Time Ti1	0.01s ~ 10.00s	2.00s	☆	0xFA06
PA- 07	Derivative Time Td1	0.000s ~ 10.000s	0.000s	☆	0xFA07
PA- 08	PID Reverse Cut-off Frequency	0.00 ~ Maximum Frequency	0.00Hz	☆	0xFA08
PA- 09	PID Deviation Limit	0.0% ~ 100.0%	0.0%	☆	0xFA09
PA- 10	PID Derivative Limit	0.00% ~ 100.00%	0.10%	☆	0xFA0A
PA- 11	PID Setpoint Ramp Time	0.00 ~ 650.00s	0.00s	☆	0xFA0B

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PA- 12	PID Feedback Filter Time	0.00 ~ 60.00s	0.00s	☆	0xFA0C
PA- 13	PID Output Filter Time	0.00 ~ 60.00s	0.00s	☆	0xFA0D
PA- 14	Decimal Digits for Pressure Setpoint and Feedback	0: No decimal 1: 1 decimal place 2: 2 decimal places	0	☆	0xFA0E
PA- 15	Proportional Gain Kp2	0.0 ~ 100.0	20.0	☆	0xFA0F
PA- 16	Integral Time Ti2	0.01s ~ 10.00s	2.00s	☆	0xFA10
PA- 17	Derivative Time Td2	0.000s ~ 10.000s	0.000s	☆	0xFA11
PA- 18	PID Parameter Switch Condition	0: No switch 1: Switch via DI terminal 2: Auto switch based on deviation	0	☆	0xFA12
PA- 19	PID Parameter Switch Deviation 1	0.0% ~ PA-20	20.0%	☆	0xFA13
PA- 20	PID Parameter Switch Deviation 2	PA-19 ~ 100.0%	80.0%	☆	0xFA14
PA- 21	PID Initial Value	0.0% ~ 100.0%	0.0%	☆	0xFA15
PA- 22	PID Initial Value Hold Time	0.00 ~ 650.00s	0.00s	☆	0xFA16

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PA- 23	Positive Maximum Deviation of Two Outputs	0.00% ~ 100.00%	1.00%	☆	0xFA17
PA- 24	Negative Maximum Deviation of Two Outputs	0.00% ~ 100.00%	1.00%	☆	0xFA18
PA- 25	PID Integral Property	Unit digit: Integral separation 0: Invalid 1: Valid Tens digit: Whether to stop integration after output reaches limit 0: Continue integration 1: Stop integration	00	☆	0xFA19
PA- 26	PID Feedback Loss Detection Value	0.0%: No feedback loss Judgment 0.1% ~ 100.0%	0.0%	☆	0xFA1A
PA- 27	PID Feedback Loss Detection Time	0.0s ~ 20.0s	0.0s	☆	0xFA1B
PA- 28	PID Calculation at Stop Status	0: No calculation when stopped 1: Calculate when stopped	0	☆	0xFA1C
PA- 29	PID Sampling Time	0 ~ 10	1	☆	0xFA1D
PA- 30	PID Feedforward Compensation Gain	0 ~ 5000	0	☆	0xFA1E

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PA- 31	PID Feedforward Compensation Lower Limit Frequency	0.00Hz ~ P0-10 (Maximum Frequency)	5.00Hz	☆	0xFA1F
PA- 32	Power-on Delay Wire-break Detection Time for PID	0.0s ~ 200.0s	8.0s	☆	0xFA20
PA- 33	Brake Action Frequency at Stop	0.00Hz ~ P0-12 (Upper Limit Frequency)	1.50Hz	☆	0xFA21
PA- 34	Brake Action Delay Time	0.0s ~ 200.0s	5.0s	☆	0xFA22
Pb Swing Frequency, Fixed Length & Counter					
Pb- 00	Swing Frequency Setting Mode	0: Relative to center frequency 1: Relative to maximum frequency	0	☆	0xFb00
Pb- 01	Swing Frequency Amplitude	0.0% ~ 100.0%	0.0%	☆	0xFb01
Pb- 02	Jump Frequency Amplitude	0.0% ~ 50.0%	0.0%	☆	0xFb02
Pb- 03	Swing Frequency Period	0.1s ~ 3000.0s	10.0s	☆	0xFb03
Pb- 04	Triangular Wave Rise Time of Swing Frequency	0.1% ~ 100.0%	50.0%	☆	0xFb04

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
Pb- 05	Set Length	0m ~ 65535m	1000m	☆	0xFb05
Pb- 06	Actual Length	0m ~ 65535m	0m	☆	0xFb06
Pb- 07	Pulse Count per Meter	0.1 ~ 6553.5	100.0	☆	0xFb07
Pb- 08	Set Counter Value	1 ~ 65535	1000	☆	0xFb08
Pb- 09	Assigned Counter Value	1 ~ 65535	1000	☆	0xFb09
PC Multi-segment Command & Simple PLC					
PC- 00	Multi-segment Command 0	-100.0% ~ 100.0%	0.0%	☆	0xFC00
PC- 01	Multi-segment Command 1	-100.0% ~ 100.0%	0.0%	☆	0xFC01
PC- 02	Multi-segment Command 2	-100.0% ~ 100.0%	0.0%	☆	0xFC02
PC- 03	Multi-segment Command 3	-100.0% ~ 100.0%	0.0%	☆	0xFC03
PC- 04	Multi-segment Command 4	-100.0% ~ 100.0%	0.0%	☆	0xFC04
PC- 05	Multi-segment Command 5	-100.0% ~ 100.0%	0.0%	☆	0xFC05
PC- 06	Multi-segment Command 6	-100.0% ~ 100.0%	0.0%	☆	0xFC06
PC- 07	Multi-segment Command 7	-100.0% ~ 100.0%	0.0%	☆	0xFC07
PC- 08	Multi-segment Command 8	-100.0% ~ 100.0%	0.0%	☆	0xFC08
PC- 09	Multi-segment Command 9	-100.0% ~ 100.0%	0.0%	☆	0xFC09

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PC- 10	Multi-segment Command 10	-100.0% ~ 100.0%	0.0%	☆	0xFC0A
PC- 11	Multi-segment Command 11	-100.0% ~ 100.0%	0.0%	☆	0xFC0B
PC- 12	Multi-segment Command 12	-100.0% ~ 100.0%	0.0%	☆	0xFC0C
PC- 13	Multi-segment Command 13	-100.0% ~ 100.0%	0.0%	☆	0xFC0D
PC- 14	Multi-segment Command 14	-100.0% ~ 100.0%	0.0%	☆	0xFC0E
PC- 15	Multi-segment Command 15	-100.0% ~ 100.0%	0.0%	☆	0xFC0F
PC- 16	Simple PLC Operation Mode	0: Stop after single run completed 1: Hold final value after single run completed 2: Continuous cycle	0	☆	0xFC10
PC- 17	Simple PLC Power-down Memory Selection	Unit digit: Power-down memory selection 0: No memory upon power loss 1: Memory upon power loss Tens digit: Stop-state memory selection 0: No memory when stopped 1: Memory when stopped	00	☆	0xFC11
PC- 18	Simple PLC Segment 0 Run Time	0.0s(h) ~ 6553.5s(h)	0.0s(h)	☆	0xFC12
PC- 19	Simple PLC Segment 0 Acc/Dec Time Selection	0~3	0	☆	0xFC13

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PC- 20	Simple PLC Segment 1 Run Time	0. 0s (h) ~ 6553. 5s (h)	0. 0s (h)	☆	0xFC14
PC- 21	Simple PLC Segment 1 Acc/Dec Time Selection	0~3	0	☆	0xFC15
PC- 22	Simple PLC Segment 2 Run Time	0. 0s (h) ~ 6553. 5s (h)	0. 0s (h)	☆	0xFC16
PC- 23	Simple PLC Segment 2 Acc/Dec Time Selection	0~3	0	☆	0xFC17
PC- 24	Simple PLC Segment 3 Run Time	0. 0s (h) ~ 6553. 5s (h)	0. 0s (h)	☆	0xFC18
PC- 25	Simple PLC Segment 3 Acc/Dec Time Selection	0~3	0	☆	0xFC19
PC- 26	Simple PLC Segment 4 Run Time	0. 0s (h) ~ 6553. 5s (h)	0. 0s (h)	☆	0xFC1A
PC- 27	Simple PLC Segment 4 Acc/Dec Time Selection	0~3	0	☆	0xFC1B
PC- 28	Simple PLC Segment 5 Run Time	0. 0s (h) ~ 6553. 5s (h)	0. 0s (h)	☆	0xFC1C

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PC- 29	Simple PLC Segment 5 Acc/Dec Time Selection	0~3	0	☆	0xFC1D
PC- 30	Simple PLC Segment 6 Run Time	0.0s(h) ~ 6553.5s(h)	0.0s(h)	☆	0xFC1E
PC- 31	Simple PLC Segment 6 Acc/Dec Time Selection	0~3	0	☆	0xFC1F
PC- 32	Simple PLC Segment 7 Run Time	0.0s(h) ~ 6553.5s(h)	0.0s(h)	☆	0xFC20
PC- 33	Simple PLC Segment 7 Acc/Dec Time Selection	0~3	0	☆	0xFC21
PC- 34	Simple PLC Segment 8 Run Time	0.0s(h) ~ 6553.5s(h)	0.0s(h)	☆	0xFC22
PC- 35	Simple PLC Segment 8 Acc/Dec Time Selection	0~3	0	☆	0xFC23
PC- 36	Simple PLC Segment 9 Run Time	0.0s(h) ~ 6553.5s(h)	0.0s(h)	☆	0xFC24
PC- 37	Simple PLC Segment 9 Acc/Dec Time Selection	0~3	0	☆	0xFC25

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PC- 38	Simple PLC Segment 10 Run Time	0. 0s (h) ~ 6553. 5s (h)	0. 0s (h)	☆	0xFC26
PC- 39	Simple PLC Segment 10 Acc/Dec Time Selection	0~3	0	☆	0xFC27
PC- 40	Simple PLC Segment 11 Run Time	0. 0s (h) ~ 6553. 5s (h)	0. 0s (h)	☆	0xFC28
PC- 41	Simple PLC Segment 11 Acc/Dec Time Selection	0~3	0	☆	0xFC29
PC- 42	Simple PLC Segment 12 Run Time	0. 0s (h) ~ 6553. 5s (h)	0. 0s (h)	☆	0xFC2A
PC- 43	Simple PLC Segment 12 Acc/Dec Time Selection	0~3	0	☆	0xFC2B
PC- 44	Simple PLC Segment 13 Run Time	0. 0s (h) ~ 6553. 5s (h)	0. 0s (h)	☆	0xFC2C
PC- 45	Simple PLC Segment 13 Acc/Dec Time Selection	0~3	0	☆	0xFC2D
PC- 46	Simple PLC Segment 14 Run Time	0. 0s (h) ~ 6553. 5s (h)	0. 0s (h)	☆	0xFC2E

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PC- 47	Simple PLC Segment 14 Acc/Dec Time Selection	0~3	0	☆	0xFC2F
PC- 48	Simple PLC Segment 15 Run Time	0.0s(h) ~ 6553.5s(h)	0.0s(h)	☆	0xFC30
PC- 49	Simple PLC Segment 15 Acc/Dec Time Selection	0~3	0	☆	0xFC31
PC- 50	Simple PLC Run Time Unit	0: s (second) 1: h (hour)	0	☆	0xFC32
PC- 51	Multi-segment Command 0 Source	0: Set by function code PC-00 1: AI1 2: AI2 3: AI3 4: Pulse 5: PID 6: Preset frequency (P0-08), modifiable via UP/DOWN	0	☆	0xFC33
PC- 52	Multi-segment Speed Priority Selection	0: No priority 1: Priority	0	☆	0xFC34
PC- 53	Multi-segment Speed Frequency Unit Selection	0: % 1: Hz	1	☆	0xFC35
PD Communication Parameters					
Pd- 00	Baud Rate	Unit digit: MODBUS 0: 300BPS 1: 600BPS	5005	☆	0xFd00

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
		2: 1200BPS 3: 2400BPS 4: 4800BPS 5: 9600BPS 6: 19200BPS 7: 38400BPS 8: 57600BPS 9: 115200BPS Tens digit: Profibus-DP 0: 115200BPS 1: 208300BPS 2: 256000BPS 3: 512000BPS Hundreds digit: Reserved Thousands digit: CANlink baud rate 0: 20k 1: 50k 2: 100k 3: 125k 4: 250k 5: 500k 6: 1M			
Pd- 01	Data Format	0: No parity (8-N-2) 1: Even parity (8-E-1) 2: Odd parity (8-O-1) 3: 8-N-1	0	☆	0xFd01
Pd- 02	Local Address	1~247, 0 for broadcast address	1	☆	0xFd02
Pd- 03	Response Delay	0ms ~ 20ms	2	☆	0xFd03
Pd- 04	Communication Timeout	0.0 (Invalid), 0.1s ~ 60.0s	0.0	☆	0xFd04
Pd- 05	Data Transmission Format Selection	Unit digit: MODBUS 0: Non-standard MODBUS protocol 1: Standard MODBUS protocol 2: Non-standard MODBUS	31	☆	0xFd05

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
		protocol (no response to host for write commands) Tens digit: Profibus-DP 0: PF01 format 1: PF02 format 2: PF03 format 3: PF05 format			
Pd- 06	Communication Current Reading Resolution	0: 0.01A 1: 0.1A	0	☆	0xFd06
Pd- 08	CANlink Communication Timeout	0.0s: Invalid, 0.1~60.0s	0	☆	0xFd08
PE User Custom Function Codes					
PE- 00	User Function Code 0	uP0-00~uPP-xx uH0-00~uHF-xx uU0-00~uU3-xx	uU3-17	☆	0xFE00
PE- 01	User Function Code 1		uU3-16	☆	0xFE01
PE- 02	User Function Code 2		uP0-00	☆	0xFE02
PE- 03	User Function Code 3		uP0-00	☆	0xFE03
PE- 04	User Function Code 4		uP0-00	☆	0xFE04
PE- 05	User Function Code 5		uP0-00	☆	0xFE05
PE- 06	User Function Code 6		uP0-00	☆	0xFE06
PE- 07	User Function Code 7		uP0-00	☆	0xFE07

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PE- 08	User Function Code 8		uP0-00	☆	0xFE08
PE- 09	User Function Code 9		uP0-00	☆	0xFE09
PE- 10	User Function Code 10		uP0-00	☆	0xFE0A
PE- 11	User Function Code 11		uP0-00	☆	0xFE0B
PE- 12	User Function Code 12		uP0-00	☆	0xFE0C
PE- 13	User Function Code 13		uP0-00	☆	0xFE0D
PE- 14	User Function Code 14		uP0-00	☆	0xFE0E
PE- 15	User Function Code 15		uP0-00	☆	0xFE0F
PE- 16	User Function Code 16		uP0-00	☆	0xFE10
PE- 17	User Function Code 17		uP0-00	☆	0xFE11
PE- 18	User Function Code 18		uP0-00	☆	0xFE12
PE- 19	User Function Code 19		uP0-00	☆	0xFE13
PE- 20	User Function Code 20		uU0-68	☆	0xFE14
PE- 21	User Function Code 21		uU0-69	☆	0xFE15

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PE- 22	User Function Code 22		uP0-00	☆	0xFE16
PE- 23	User Function Code 23		uP0-00	☆	0xFE17
PE- 24	User Function Code 24		uP0-00	☆	0xFE18
PE- 25	User Function Code 25		uP0-00	☆	0xFE19
PE- 26	User Function Code 26		uP0-00	☆	0xFE1A
PE- 27	User Function Code 27		uP0-00	☆	0xFE1B
PE- 28	User Function Code 28		uP0-00	☆	0xFE1C
PE- 29	User Function Code 29		uP0-00	☆	0xFE1D
PE- 30	User Function Code 30		uP0-00	☆	0xFE1E
PE- 31	User Function Code 31		uP0-00	☆	0xFE1F
PP Function Code Management					
PP- 00	User Password	0~65535	0	☆	0x1F00
PP- 01	Parameter Initialization	0: No operation 01: Restore factory parameters, exclude motor parameters 02: Clear record information 04: Restore user backup parameters 501: Backup current user parameters	0	★	0x1F01

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
PP- 02	Function Group Display Selection	Unit digit: U group display selection 0: Hide 1: Display Tens digit: A group display selection 0: Hide 1: Display	11	★	0x1F02
PP- 03	Custom Parameter Group Display Selection	Unit digit: User custom parameter group display selection 0: Hide 1: Display Tens digit: User modified parameter group display selection 0: Hide 1: Display	00	☆	0x1F03
PP- 04	Function Code Modification Attribute	0: Modifiable 1: Non-modifiable	0	☆	0x1F04
PP- 05	Model Setting	1: G type unit 2: P type unit	1	★	0x1F05
H0 Torque Control Parameters					
H0- 00	Speed / Torque Control Mode Selection	0: Speed control 1: Torque control	0	★	0xA000
H0- 01	Torque Reference Source Selection under Torque Control Mode	0: Digital setting (H0-03) 1: AI1 2: AI2 3: AI3 4: Pulse 5: Communication reference 6: MIN(AI1, AI2) 7: MAX(AI1, AI2) (Full scale of option 1-7 corresponds to	0	★	0xA001

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
		digital setting H0-03)			
H0- 03	Digital Torque Reference under Torque Control Mode	-200.0% ~ 200.0%	150.0%	☆	0xA003
H0- 05	Max Forward Frequency under Torque Control	0.00Hz ~ Maximum Frequency	50.00Hz	☆	0xA005
H0- 06	Max Reverse Frequency under Torque Control	0.00Hz ~ Maximum Frequency	50.00Hz	☆	0xA006
H0- 07	Acceleration Time under Torque Control	0.00s ~ 65000s	0.00s	☆	0xA007
H0- 08	Deceleration Time under Torque Control	0.00s ~ 65000s	0.00s	☆	0xA008
H1 Virtual IO					
H1- 00	Virtual VDI1 Terminal Function	0~59	0	★	0xA100
H1- 01	Virtual VDI2 Terminal Function	0~59	0	★	0xA101
H1- 02	Virtual VDI3 Terminal Function	0~59	0	★	0xA102

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H1- 03	Virtual VDI4 Terminal Function Selection	0~59	0	★	0xA103
H1- 04	Virtual VDI5 Terminal Function Selection	0~59	0	★	0xA104
H1- 05	Virtual VDI Terminal Status Setting Mode	0: VS validity determined by status of virtual VDI 1: VS validity set by function code H1-06 Unit digit: Virtual VDI1 Tens digit: Virtual VDI2 Hundreds digit: Virtual VDI3 Thousands digit: Virtual VDI4 Ten-thousands digit: Virtual VDI5	00000	★	0xA105
H1- 06	Virtual VDI Terminal Status Setting	0: Invalid 1: Valid Unit digit: Virtual VDI1 Tens digit: Virtual VDI2 Hundreds digit: Virtual VDI3 Thousands digit: Virtual VDI4 Ten-thousands digit: Virtual VDI5	00000	★	0xA106
H1- 08	Function Selection when AI2 Terminal used as Digital Input Terminal	0~59	0	★	0xA108

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H1- 09	Function Selection when AI3 Terminal used as Digital Input Terminal	0~59	0	★	0xA109
H1- 10	Valid Mode Selection for Analog Terminals as Digital Input	0: High level active 1: Low level active Unit digit: AI1 Tens digit: AI2 Hundreds digit: AI3	000	★	0xA10A
H1- 11	Virtual VD01 Output Function Selection	0: Internally shorted with physical Sx 1~40: Refer to P5 group physical D0 output selection	0	☆	0xA10B
H1- 12	Virtual VD02 Output Function Selection	0: Internally shorted with physical Sx 1~40: Refer to P5 group physical D0 output selection	0	☆	0xA10C
H1- 13	Virtual VD03 Output Function Selection	0: Internally shorted with physical Sx 1~40: Refer to P5 group physical D0 output selection	0	☆	0xA10D
H1- 14	Virtual VD04 Output Function Selection	0: Internally shorted with physical Sx 1~40: Refer to P5 group physical D0 output selection	0	☆	0xA10E
H1- 15	Virtual VD05 Output Function Selection	0: Internally shorted with physical Sx 1~40: Refer to P5 group physical D0 output selection	0	☆	0xA10F
H1- 16	VD01 Output Delay Time	0.0s ~ 3600.0s	0.0s	☆	0xA110

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H1- 17	VD02 Output Delay Time	0.0s ~ 3600.0s	0.0s	☆	0xA111
H1- 18	VD03 Output Delay Time	0.0s ~ 3600.0s	0.0s	☆	0xA112
H1- 19	VD04 Output Delay Time	0.0s ~ 3600.0s	0.0s	☆	0xA113
H1- 20	VD05 Output Delay Time	0.0s ~ 3600.0s	0.0s	☆	0xA114
H1- 21	VD0 Output Terminal Active State Selection	0: Positive logic 1: Inverse logic Unit digit: VD01 Tens digit: VD02 Hundreds digit: VD03 Thousands digit: VD04 Ten-thousands digit: VD05	00000	☆	0xA115
H2 Second Motor Control					
H2- 00	Motor Type Selection	0: General Asynchronous Motor 1: Variable Frequency Asynchronous Motor 2: Permanent Magnet Synchronous Motor	0	★	0xA200
H2- 01	Motor Rated Power	0.1kW ~ 1000.0kW	Depends on model	★	0xA201
H2- 02	Motor Rated Voltage	1V ~ 2000V	Depends on model	★	0xA202
H2- 03	Motor Rated Current	0.01A~655.35A (Drive power ≤ 55kW) 0.1A~6553.5A (Drive power >55kW)	Depends on model	★	0xA203

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H2- 04	Motor Rated Frequency	0.01Hz ~ Maximum Frequency	Depends on model	★	0xA204
H2- 05	Motor Rated Speed	1rpm ~ 65535rpm	Depends on model	★	0xA205
H2- 06	Stator Resistance of Asynchronous Motor	0.001 Ω ~65.5535 Ω (Drive power ≤55kW) 0.0001 Ω ~6.5535 Ω (Drive power >55kW)	Depends on model	★	0xA206
H2- 07	Rotor Resistance of Asynchronous Motor	0.001 Ω ~65.535 Ω (Drive power ≤55kW) 0.0001 Ω ~6.5535 Ω (Drive power >55kW)	Depends on model	★	0xA207
H2- 08	Leakage Inductance of Asynchronous Motor	0.01mH~655.35mH (Drive power ≤55kW) 0.001mH~65.535mH (Drive power >55kW)	Depends on model	★	0xA208
H2- 09	Mutual Inductance of Asynchronous Motor	0.1mH~6553.5mH (Drive power ≤55kW) 0.01mH~655.35mH (Drive power >55kW)	Depends on model	★	0xA209
H2- 10	No-load Current of Asynchronous Motor	0.01A ~ H2-03 (Drive power ≤55kW) 1A ~ H2-03 (Drive power >55kW)	Depends on model	★	0xA20A
H2- 16	Stator Resistance of Synchronous Motor	0.001 Ω ~65.535 Ω (Drive power ≤55kW) 0.0001 Ω ~6.5535 Ω (Drive power >55kW)	Tuning Parameter	★ (E)	0xA210
H2- 17	D-axis Inductance of Synchronous Motor	0.01mH~655.35mH (Drive power ≤55kW) 0.001mH~65.535mH (Drive power >55kW)	Tuning Parameter	★ (E)	0xA211

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H2- 18	Q-axis Inductance of Synchronous Motor	0.01mH~655.35mH (Drive power $\leq 55\text{kW}$) 0.001mH~65.535mH (Drive power $> 55\text{kW}$)	Tuning Parameter	★ (E)	0xA212
H2- 20	Back EMF of Synchronous Motor	0.1V ~ 6553.5V	Tuning Parameter	★ (E)	0xA214
H2- 22	No-load Current of Synchronous Motor	0% ~ 180%	5%	★ (E)	0xA216
H2- 27	Encoder Pulse Count	1~65535	1024	★	0xA21B
H2- 28	Encoder Type	0: ABZ incremental encoder 1: UVW incremental encoder 2: Resolver 3: Sine-cosine encoder 4: Wire-saving UVW encoder	0	★	0xA21C
H2- 29	Speed Feedback PG Selection	0: Local PG 1: Extended PG 2: Pulse input (DI5)	0	★	0xA21D
H2- 30	AB Phase Sequence of ABZ Incremental Encoder	0: Forward 1: Reverse	0	★	0xA21E
H2- 31	Encoder Installation Angle	0.0~359.9°	0.0°	★	0xA21F
H2- 32	UVW Phase Sequence of UVW Encoder	0: Forward 1: Reverse	0	★	0xA220

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H2- 33	UVW Encoder Offset Angle	0.0~359.9°	0.0°	★	0xA221
H2- 34	Resolver Pole Pairs	1~65535	1	★	0xA222
H2- 36	Speed Feedback PG Disconnection Detection Time	0.0: Disable 0.1s~10.0s	0.0	★	0xA224
H2- 37	Tuning Selection	0: No operation 1: Asynchronous motor static tuning 2: Asynchronous motor complete tuning 3: Asynchronous motor static & complete tuning 11: Synchronous motor static self-learning(E) 12: Synchronous motor no-load dynamic self-learning(E)	0	★	0xA225
H2- 38	Speed Loop Proportional Gain 1	1~100	30	☆	0xA226
H2- 39	Speed Loop Integration Time 1	0.01s~10.00s	0.50s	☆	0xA227
H2- 40	Switch Frequency 1	0.00 ~ H2-43	5.00Hz	☆	0xA228
H2- 41	Speed Loop Proportional Gain 2	1~100	20	☆	0xA229
H2- 42	Speed Loop Integration Time 2	0.01s~10.00s	1.00s	☆	0xA22A

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H2- 43	Switch Frequency 2	H2-40 ~ Maximum Frequency	10.00Hz	☆	0xA22B
H2- 44	Vector Control Slip Gain	50%~200%	100%	☆	0xA22C
H2- 45	Speed Loop Filter Time Constant	0.000s~0.100s	0.050s	☆	0xA22D
H2- 46	Vector Control Over-excitation Gain	0~200	64	☆	0xA22E
H2- 47	Torque Limit Source under Speed Control Mode	0: Set by H2-48 1: AI1 2: AI2 3: AI3 4: Pulse 5: Communication reference 6: MIN(AI1, AI2) 7: MAX(AI1, AI2) (Full scale of option 1-7 corresponds to digital setting H2-48)	0	☆	0xA22F
H2- 48	Digital Torque Limit Setting under Speed Control Mode	0.0%~200.0%	150.0%	☆	0xA230
H2- 51	Excitation Regulation Proportional Gain	0~20000	2000	☆	0xA233
H2- 52	Excitation Regulation Integral Gain	0~20000	1300	☆	0xA234

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H2- 53	Torque Regulation Proportional Gain	0~20000	2000	☆	0xA235
H2- 54	Torque Regulation Integral Gain	0~20000	1300	☆	0xA236
H2- 55	Speed Loop Integral Attribute	Unit digit: Integral separation 0: Invalid 1: Valid	0	☆	0xA237
H2- 61	2nd Motor Control Mode	0: Open-loop vector 1: Closed-loop vector 2: V/F control	2	★	0xA23D
H2- 62	2nd Motor Acc/Dec Time Selection	0: Same as 1st motor 1: Acc/Dec Time 1 2: Acc/Dec Time 2 3: Acc/Dec Time 3 4: Acc/Dec Time 4	0	☆	0xA23E
H2- 63	2nd Motor Torque Boost	0.0%: Auto torque boost 0.1%~30.0%	Depends on model	☆	0xA23F
H2- 65	2nd Motor Oscillation Suppression Gain	0~100	Depends on model	☆	0xA241
H2- 66	Field Weakening Depth	0~50	5	☆ (E)	0xA242
H2- 67	Initial Position Detection Current	10%~180%	80%	☆ (E)	0xA243

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H2- 68	Initial Position Detection Enable	0~3	1	☆ (E)	0xA244
H2- 69	Speed Loop Mode Selection	0~1	0	☆ (E)	0xA245
H2- 70	Salient Ratio Adjustment Coefficient	50~500	100	☆ (E)	0xA246
H2- 71	Maximum Torque Per Ampere Control Enable	0~1	0	☆ (E)	0xA247
H2- 72	Feedforward Compensation Mode	0~2	0	☆ (E)	0xA248
H2- 73	Current Loop KP during Tuning	0~100	6	☆ (E)	0xA249
H2- 74	Current Loop KI during Tuning	0~100	6	☆ (E)	0xA24A
H2- 75	Z-Signal Calibration Enable	0~1	1	☆ (E)	0xA24B
H2- 76	SVC Speed Filter Level for Synchronous Motor	10~1000	100	☆ (E)	0xA24C

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H2- 77	SVC Speed Estimation Proportional Gain for Synchronous Motor	5~200	40	☆ (E)	0xA24D
H2- 78	SVC Speed Estimation Integral Gain for Synchronous Motor	5~500	30	☆ (E)	0xA24E
H2- 79	SVC Initial Excitation Current Limit for Synchronous Motor	0~150	30	☆ (E)	0xA24F
H2- 80	SVC Minimum Carrier Frequency for Synchronous Motor	0.8~100.0	1.5	☆ (E)	0xA250
H2- 81	Low-Frequency Operation Mode	0~1	0	☆ (E)	0xA251
H2- 82	Low-Frequency Activation Threshold	0.00~10.00	2	☆ (E)	0xA252
H2- 83	Low-Frequency Frequency Step	0.0001~1.0000	0.001	☆ (E)	0xA253
H2- 84	Low-Frequency Braking Current	30~120	80	☆ (E)	0xA254

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H2- 85	SVC Speed Tracking for Synchronous Motor	0~1	0	☆ (E)	0xA255
H2- 86	Zero Servo Enable	0~1	0	☆ (E)	0xA256
H2- 87	Switching Frequency	0.00~655.35	0.30	☆ (E)	0xA257
H2- 88	Zero Servo Speed Loop Proportional Gain	1~100	10	☆ (E)	0xA258
H2- 89	Zero Servo Speed Loop Integration Time	0.01~10.00	0.50	☆ (E)	0xA259
H2- 90	Reverse Rotation Inhibit at Stop	0~1	0	☆ (E)	0xA25A
H2- 91	Stopping Angle	0.0~10.0	0.8	☆ (E)	0xA25B
H5 Control Optimization Parameters					
H5- 00	DPWM Switching Upper Limit Frequency	0.00Hz ~ (P0-10)	8.00Hz	☆	0xA500

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H5- 01	PWM Modulation Mode	0: Asynchronous modulation 1: Synchronous modulation	0	☆	0xA501
H5- 02	Dead-time Compensation Mode Selection	0: No compensation 1: Compensation Mode 1 2: Compensation Mode 2	1	☆	0xA502
H5- 03	Random PWM Depth	0: Random PWM disabled 1~10: Random depth of PWM carrier frequency	0	☆	0xA503
H5- 04	Fast Current Limit Enable	0: Disable 1: Enable	1	☆	0xA504
H5- 05	Upper Limit Frequency for Zero-speed Judgment	0.00Hz~20.00Hz	0.15Hz (Permanent Magnet Motor)	☆	0xA505
H5- 06	Undervoltage Threshold Setting	150V~420V	350V	☆	0xA506
H5- 07	0Hz Output Function Selection	0: No output 1: Normal output 2: DC Braking (Braking current defined by P6-13)	1	☆	0xA507
H5- 08	Dead-time Adjustment	100%~200%	150%	☆	0xA508
H5- 09	Overvoltage Threshold Setting	200.0V~2000.0V	Depends on model	☆	0xA509
H6 Analog Curve Input Setting					

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H6- 00	Minimum Input of Analog Input 4	-10.00V ~ H6-02	0.00V	☆	0xA600
H6- 01	Setting Corresponding to Min Input of AI4	-100.0%~+100.0%	0.0%	☆	0xA601
H6- 02	Knee Point 1 Input of Analog Input 4	H6-00 ~ H6-04	3.00V	☆	0xA602
H6- 03	Setting Corresponding to Knee Point1 of AI4	-100.0%~+100.0%	30.0%	☆	0xA603
H6- 04	Knee Point 2 Input of Analog Input 4	H6-02 ~ H6-06	6.00V	☆	0xA604
H6- 05	Setting Corresponding to Knee Point2 of AI4	-100.0%~+100.0%	60.0%	☆	0xA605
H6- 06	Maximum Input of Analog Input 4	H6-06 ~ +10.00V	10.00V	☆	0xA606
H6- 07	Setting Corresponding to Max Input of AI4	-100.0%~+100.0%	100.0%	☆	0xA607
H6- 08	Minimum Input of Analog Input 5	-10.00V ~ H6-10	-10.00V	☆	0xA608

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H6- 09	Setting Corresponding to Min Input of AI5	-100.0%~+100.0%	-100.0%	☆	0xA609
H6- 10	Knee Point 1 Input of Analog Input 5	H6-08 ~ H6-12	-3.00V	☆	0xA60A
H6- 11	Setting Corresponding to Knee Point1 of AI5	-100.0%~+100.0%	-30.0%	☆	0xA60B
H6- 12	Knee Point 2 Input of Analog Input 5	H6-10 ~ H6-14	3.00V	☆	0xA60C
H6- 13	Setting Corresponding to Knee Point2 of AI5	-100.0%~+100.0%	30.0%	☆	0xA60D
H6- 14	Maximum Input of Analog Input 5	H6-12 ~ +10.00V	10.00V	☆	0xA60E
H6- 15	Setting Corresponding to Max Input of AI5	-100.0%~+100.0%	100.0%	☆	0xA60F
H6- 24	AI1 Setpoint Jump Point	-100.0%~100.0%	0.0%	☆	0xA618
H6- 25	AI1 Setpoint Jump Amplitude	0.0%~10.0%	0.5%	☆	0xA619
H6- 26	AI2 Setpoint Jump Point	-100.0%~100.0%	0.0%	☆	0xA61A

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H6- 27	AI2 Setpoint Jump Amplitude	0.0%~100.0%	0.5%	☆	0xA61B
H6- 28	AI3 Setpoint Jump Point	-100.0%~100.0%	0.0%	☆	0xA61C
H6- 29	AI3 Setpoint Jump Amplitude	0.0%~100.0%	0.5%	☆	0xA61D
H8 Point-to-Point Communication					
H8- 00	Point-to-Point Communication Function Selection	0: Disabled 1: Enabled	0	☆	0xA800
H8- 01	Master-Slave Control	0: Master 1: Slave	0	☆	0xA801
H8- 02	Master-Slave Information Interaction for Slave Command Following	Unit digit: Slave command follow 0: Slave does not follow master run command 1: Slave follows master run command Tens digit: Slave fault message transmission 0: Slave fault message not transmitted 1: Slave fault message Transmitted Hundreds digit: Master display slave offline 0: Master does not alarm when slave offline 1: Master alarms for slave offline (ERR-16)	11	☆	0xA802

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H8- 03	Selection of Function for Received Data by Slave	0: Master operating frequency 1: Master target frequency	0	☆	0xA803
H8- 04	Received Data Offset (Torque)	-100.00%~100.00%	0%	☆	0xA804
H8- 05	Received Data Gain	-10.00~100.00	1.00	★	0xA805
H8- 06	Point-to-Point Communication Break Detection Time	0.0s~10.0s	0	☆	0xA806
H8- 07	Master Data Transmission Cycle of Point-to-Point Communication	0.001s~10.000s	0.050s	☆	0xA807
H8- 08	Frequency Received Data Offset	-100.00~100.00	0.00	☆	0xA808
H8- 09	Frequency Received Data Gain	-10.00~10.00	1.00	☆	0xA809
H8- 10	Max Positive Frequency Deviation of Slave	0.00~100.00	10.00	☆	0xA80A

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
H8- 11	Max Reverse Frequency Deviation of Slave	0.2%~10.00%	0.5%	☆	0xA80B
H9 Sleep & Wake-up Function Parameters					
H9- 00	Sleep & Wake-up Enable	0: Sleep function disabled 1: Sleep controlled by PID setpoint and feedback value 2: Sleep controlled by operating frequency	0	☆	0xA900
H9- 01	Sleep Frequency	0.00Hz ~ P0-10	20.00Hz	☆	0xA901
H9- 02	Sleep Delay Time	0.0s~3600.0s	5.0s	☆	0xA902
H9- 03	Wake-up Deviation	0.0%~100.0%	10.0%	☆	0xA903
H9- 04	Wake-up Delay Time	0.0s~3600.0s	3.0s	☆	0xA904
H9- 05	Frequency Mode Selection during Sleep Delay	0: PID output 1: Output sleep frequency	0	☆	0xA905
HA Brake Parameter Group					
HA- 00	Brake Control Enable Selection	0: Disable 1: Enable	0	★	0xAA00
HA- 01	Brake Release Frequency	0.00Hz~20.00Hz	2.50Hz	☆	0xAA01
HA- 02	Hold Time at Brake Release Frequency	0.0s~20.0s	1.0s	☆	0xAA02

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
HA- 03	Current Limit Value during Braking	50.0%~200.0%	120.0%	☆	0xAA03
HA- 04	Brake Engage Frequency	0.00Hz~20.00Hz	1.50Hz	☆	0xAA04
HA- 05	Brake Engage Delay Time	0.0s~20.0s	0.0s	☆	0xAA05
HA- 06	Hold Time at Brake Engage Frequency	0.0s~20.0s	1.0s	☆	0xAA06
HA- 07	Brake-release Torque Current Detection Value	0.0%~100.0%	12.0%	☆	0xAA07
HC Analog Input & Output Calibration					
HC- 00	AI1 Measured Voltage 1	0.500V~4.000V	Factory Calibrated	☆	0xAC00
HC- 01	AI1 Display Voltage 1	0.500V~4.000V	Factory Calibrated	☆	0xAC01
HC- 02	AI1 Measured Voltage 2	6.000V~9.999V	Factory Calibrated	☆	0xAC02
HC- 03	AI1 Display Voltage 2	6.000V~9.999V	Factory Calibrated	☆	0xAC03
HC- 04	AI2 Measured Voltage 1	0.500V~4.000V	Factory Calibrated	☆	0xAC04

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
HC- 05	AI2 Display Voltage 1	0.500V~4.000V	Factory Calibrated	☆	0xAC05
HC- 06	AI2 Measured Voltage 2	6.000V~9.999V	Factory Calibrated	☆	0xAC06
HC- 07	AI2 Display Voltage 2	6.000V~9.999V	Factory Calibrated	☆	0xAC07
HC- 08	AI3 Measured Voltage 1	-9.999V~10.000V	Factory Calibrated	☆	0xAC08
HC- 09	AI3 Display Voltage 1	-9.999V~10.000V	Factory Calibrated	☆	0xAC09
HC- 10	AI3 Measured Voltage 2	-9.999V~10.000V	Factory Calibrated	☆	0xAC0A
HC- 11	AI3 Display Voltage 2	-9.999V~10.000V	Factory Calibrated	☆	0xAC0B
HC- 12	A01 Target Voltage 1	0.500V~4.000V	Factory Calibrated	☆	0xAC0C
HC- 13	A01 Measured Voltage 1	0.500V~4.000V	Factory Calibrated	☆	0xAC0D
HC- 14	A01 Target Voltage 2	6.000V~9.999V	Factory Calibrated	☆	0xAC0E
HC- 15	A01 Measured Voltage 2	6.000V~9.999V	Factory Calibrated	☆	0xAC0F

Function Code	Name	Setting Range	Factory Default	Modify Mark	Communication Address
HC- 16	A02 Target Voltage 1	0.500V~4.000V	Factory Calibrated	☆	0xAC10
HC- 17	A02 Measured Voltage 1	0.500V~4.000V	Factory Calibrated	☆	0xAC11
HC- 18	A02 Target Voltage 2	6.000V~9.999V	Factory Calibrated	☆	0xAC12
HC- 19	A02 Measured Voltage 2	6.000V~9.999V	Factory Calibrated	☆	0xAC13
L0 Application Macro Function Selection					
L0- 00	Application Macro Selection	0: General setting 1: Constant pressure water supply dedicated setting 2: Grinding machine dedicated setting 3: Machine tool dedicated setting 7: Top-set fixed-point stop dedicated setting	0	☆	0xB000

10. Monitor Parameters Brief Table

Function Code	Name	Minimum Unit	Communication Address
U0- 00	Running Frequency (Hz)	0.01Hz	0x7000
U0- 01	Set Frequency (Hz)	0.01Hz	0x7001
U0- 02	DC Bus Voltage (V)	0.1V	0x7002
U0- 03	Output Voltage (V)	1V	0x7003
U0- 04	Output Current (A)	0.01A (Inverter Power ≤55.0kW) 0.1A (Inverter Power >55.0kW)	0x7004

Function Code	Name	Minimum Unit	Communication Address
U0- 05	Output Power (kW)	0.1kW	0x7005
U0- 06	Output Torque (%)	0.1%	0x7006
U0- 07	DI Input Status	1	0x7007
U0- 08	DO Output Status	1	0x7008
U0- 09	AI1 Voltage (V)	0.01V	0x7009
U0- 10	AI2 Voltage (V)	0.01V	0x700A
U0- 11	AI3 Voltage (V)	0.01V	0x700B
U0- 12	Counter Value	1	0x700C
U0- 13	Length Value	1	0x700D
U0- 14	Load Speed Display	1	0x700E
U0- 15	PID Setpoint	1	0x700F
U0- 16	PID Feedback	1	0x7010
U0- 17	PLC Stage	1	0x7011
U0- 18	Pulse Input Frequency (Hz)	0.01kHz	0x7012
U0- 19	Feedback Speed (Unit:0.1Hz)	0.1Hz	0x7013
U0- 20	Remaining Running Time	0.1Min	0x7014
U0- 21	Pre-calibration Voltage of AI1	0.001V	0x7015
U0- 22	Pre-calibration Voltage of AI2	0.001V	0x7016
U0- 23	Pre-calibration Voltage of AI3	0.001V	0x7017
U0- 24	Linear Speed	1m/Min	0x7018
U0- 25	Current Power-on Time	1Min	0x7019
U0- 26	Current Running Time	0.1Min	0x701A
U0- 27	Pulse Input Frequency	1Hz	0x701B

Function Code	Name	Minimum Unit	Communication Address
U0- 28	Communication Setpoint	0.01%	0x701C
U0- 29	Encoder Feedback Speed	0.01Hz	0x701D
U0- 30	Main Frequency X Display	0.01Hz	0x701E
U0- 31	Aux Frequency Y Display	0.01Hz	0x701F
U0- 32	View Arbitrary Memory Address Value	1	0x7020
U0- 33	Rotor Position of Synchronous Motor	0.1°	0x7021
U0- 34	Motor Temperature	1℃	0x7022
U0- 35	Target Torque (%)	0.1%	0x7023
U0- 36	Resolver Position	1	0x7024
U0- 37	Power Factor Angle	0.1°	0x7025
U0- 38	ABZ Position	1	0x7026
U0- 39	V/F Separation Target Voltage	1V	0x7027
U0- 40	V/F Separation Output Voltage	1V	0x7028
U0- 41	Visual Display of DI Digital Input Terminal Status	1	0x7029
U0- 42	Visual Display of DO Input Status	1	0x702A
U0- 43	Visual Display 1 of DI Digital Input Terminal Function Status (Function 01~40)	1	0x702B
U0- 44	Visual Display 2 of DI Digital Input Terminal Function Status (Function 41~80)	1	0x702C
U0- 45	Fault Information	1	0x702D

Function Code	Name	Minimum Unit	Communication Address
U0- 59	Set Frequency (%)	0.01%	0x703B
U0- 60	Running Frequency (%)	0.01%	0x703C
U0- 61	Drive Status	1	0x703D
U0- 62	Current Fault	1	0x703E

11.Information and Fault Summary Table

Fault Code	Fault Name	Fault Code	Fault Name
Err01	Inverter Unit Protection	Err20	Encoder Fault
Err02	Overcurrent during Acceleration	Err21	EEPROM Read/Write Fault
Err03	Overcurrent during Deceleration	Err22	Drive Hardware Fault
Err04	Overcurrent at Constant Speed	Err23	Ground Short Circuit Fault
Err05	Overvoltage during Acceleration	Err26	Cumulative Running Time Reached Fault
Err06	Overvoltage during Deceleration	Err27	User-defined Fault 1
Err07	Overvoltage at Constant Speed	Err28	User-defined Fault 2
Err08	Control Power Supply Fault	Err29	Cumulative Power-on Time Reached Fault
Err09	Undervoltage Fault	Err30	Load Loss Fault
Err10	Drive Overload	Err31	PID Feedback Loss Fault during Operation
Err11	Motor Overload	Err40	Cycle-by-Cycle Current Limiting Fault
Err12	Input Phase Loss	Err41	Power Cut Fault during Operation

Fault Code	Fault Name	Fault Code	Fault Name
Err13	Output Phase Loss	Err42	Excessive Speed Deviation Fault
Err14	Module Overheat	Err43	Motor Overspeed Fault
Err15	External Device Fault	Err45	Motor Over-temperature Fault
Err16	Communication Fault	Err46	Motor Over-temperature Detected via AI2 (Synchronous Motor)
Err17	Contactor Fault	Err47	Motor Over-temperature Detected via AI3 (Synchronous Motor)
Err18	Current Detection Fault	Err51	Initial Position Error
Err19	Motor Tuning Fault	A64	Back-EMF Learning Low Fault (Synchronous Motor)

12.Communication Address Definition

Function Code Parameter Section:

The communication address is formed by combining the group number and parameter index of the function code for current communication operation:

High byte: F0~FF (Group P), A0~AF (Group H), 70~7F (Group U) Low byte: 00~FF

Example: P3-12 is represented as address F30C. Note: Group PF: parameters cannot be read or modified. Group U: parameters are read-only and cannot be modified.

Some parameters cannot be modified while the drive is running; some parameters cannot be modified regardless of the drive status. When modifying function code parameters, observe the parameter range, unit and relevant instructions.

In addition, frequent EEPROM writes shorten the service life of EEPROM. For this reason, some function codes only require modification of values in RAM instead of saving to EEPROM during communication.

For Group F parameters, this function is realized by changing the high nibble F of the function code address to 0. For Group H parameters, this function is realized by changing the high nibble A of the function code address to 4.

The corresponding function code addresses are defined below: High byte: 00~0F (Group P), 40~4F (Group H) Low byte: 00~FF

Examples: Function code P3-12 without saving to EEPROM: address 030C; Function code H0-05 without saving to EEPROM: address 4005. This type of address is for RAM write operations only; read access to these addresses is invalid. Command code 07H can also be used for this function for all parameters.

Stop / Run Parameter Section:

Parameter Address	Parameter Description
9000H	Frequency setpoint (0~P0-10, decimal), unit: 0.01Hz (adjustable via P0-22), Write-only
1000H	*Communication setpoint (-10000~10000, decimal) (unit:0.01%), Read/Write
1001H	Running frequency (unit:0.01Hz), Read-only
1002H	DC bus voltage (unit:0.1V), Read-only
1003H	Output voltage (unit:0.1V), Read-only
1004H	Output current (unit:0.01A for drive power $\leq 55.0\text{kW}$; 0.1A for power $> 55.0\text{kW}$), Read-only
1005H	Output power (unit:0.1kW), Read-only
1006H	Output torque (unit:0.1%), Read-only
1007H	Running speed (unit:0.1Hz), Read-only
1008H	DI input flag (unit:1), Read-only
1009H	DO output flag (unit:1), Read-only
100AH	AI1 voltage (unit:0.01V), Read-only
100BH	AI2 voltage (unit:0.01V), Read-only
100CH	AI3 voltage (unit:0.01V), Read-only
100DH	Counter input value (unit:1), Read-only
100EH	Length input value (unit:1), Read-only
100FH	Load speed (unit:1), Read-only
1010H	PID set value (unit:0.1), Read-only
1011H	PID feedback value (unit:0.1), Read-only
1012H	PLC step number (unit:1), Read-only
1013H	PULSE input pulse frequency (unit:0.01kHz), Read-only
1014H	Feedback speed (unit:0.1Hz), Read-only

Parameter Address	Parameter Description
1015H	Remaining running time (unit:0.1min), Read-only
1016H	AI1 pre-calibration voltage (unit:0.001V), Read-only
1017H	AI2 pre-calibration voltage (unit:0.001V), Read-only

Note: The communication setpoint is a percentage of relative value. 10000 corresponds to 100.00%, and -10000 corresponds to -100.00%. For frequency-related data, this percentage is relative to the maximum frequency (P0-10). For torque-related data, this percentage refers to P2-10 and H2-48 (digital setting of torque limit for the 2nd motor).

Control command input to the drive: (Write-only)

Command Word Address	Command Function
2000H	0001: Forward Run
	0002: Reverse Run
	0003: Forward Jog
	0004: Reverse Jog
	0005: Free Stop
	0006: Deceleration Stop
	0007: Fault Reset

Read Drive Status: (Read-only)

Status Word Address	Status Word Function
3000H	0001: Forward Run
	0002: Reverse Run
	0003: Stop

Password Verification for Parameter Lock: (Return value 8888H indicates password verification passed)

Password Address	Password Content / Description
1F00H	*****
2001H	BIT0: D01 Output Control BIT1: D02 Output Control

Password Address	Password Content / Description
	BIT2: RELAY1 Output Control BIT3: RELAY2 Output Control BIT4: FMR Output Control BIT5: VD01BIT6: VD02 BIT7: VD03 BIT8: VD04 BIT9: VD05

A01 Analog Output Control: (Write-only)

Command Address	Command Content
2002H	0~7FFF corresponds to 0%~100%

A02 Analog Output Control: (Write-only)

Command Address	Command Content
2003H	0~7FFF corresponds to 0%~100%

Pulse (PULSE) Output Control: (Write-only)

Command Address	Command Content
2004H	0~7FFF corresponds to 0%~100%

Drive Fault Description:

Drive Fault Address	Drive Fault Information	
8000H	0000: No Fault	0015: Parameter read/write abnormality
	0001: Reserved	0016: Drive hardware fault
	0002: Overcurrent during acceleration	0017: Motor earth short-circuit fault
	0003: Overcurrent during deceleration	0018: Reserved
	0004: Overcurrent at constant speed	0019: Reserved
	0005: Overvoltage during acceleration	001A: Runtime reached

Drive Fault Address	Drive Fault Information	
	0006: Overvoltage during deceleration	001B: User-defined Fault 1
	0007: Overvoltage at constant speed	001C: User-defined Fault 2
	0008: Buffer resistor overload fault	001D: Power-on time reached
	0009: Undervoltage fault	001E: Load loss
	000A: Drive overload	001F: PID feedback loss during operation
	000B: Motor overload	0028: Fast current limiting timeout fault
	000C: Input phase loss	0029: Motor switching fault during operation
	000D: Output phase loss	002A: Excessive speed deviation
	000E: Module overheating	002B: Motor overspeed
	000F: External fault	002D: Motor overtemperature
	0010: Communication abnormality	005A: Incorrect encoder line count setting
	0011: Contactor abnormality	005B: Encoder not connected
	0012: Current detection fault	005C: Initial position error
	0013: Motor tuning fault	005E: Speed feedback error
	0014: Encoder/PG card fault	

Warranty Agreement

1. The warranty period of this product is eighteen months, subject to the barcode information on the unit. Within the warranty period, if the product fails or is damaged under normal use in accordance with the user manual, our company shall provide free maintenance.

2. Within the warranty period, maintenance fees will be charged for damage caused by the following reasons:

- A. Equipment damage caused by improper use, unauthorized repair or modification;
- B. Equipment damage caused by fire, flood, abnormal voltage, other natural disasters and secondary disasters;
- C. Hardware damage caused by manual dropping or transportation after purchase;
- D. Equipment damage resulting from operation not in accordance with our official user manual;
- E. Failures and damage caused by external obstacles (such as external equipment factors).

3. When the product malfunctions or gets damaged, please fill in all items in the Product Warranty Card correctly and completely. All maintenance charges shall be subject to our company's latest revised Maintenance Price List.

4. Generally, this warranty card will not be reissued. Please keep this card properly and present it to maintenance personnel for warranty service.

5. If you have any questions during service, please promptly contact our agent or our company.

Product Warranty Card

Customer Information	Unit Address:	
	Unit Name:	Contact Person:
	Postcode:	Contact number:
Product Information	Product Model:	
	Body barcode (paste here).	
	Agent Name:	
Fault Information	(When and what to repair). Maintenance man:	



Scan the code to view the electronic version of the manual

