Thank you for choosing HE100 series high-performance AC Drive.

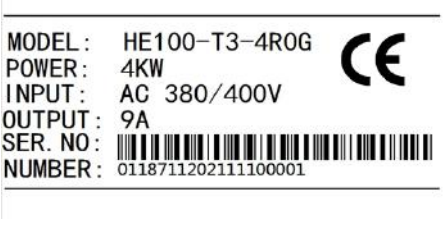
The diagrams in this operating instruction are for the convenience of description, and may be slightly different from the product. Due to product upgrades, it may also be slightly different. Please refer to the actual product.

Please pay attention to hand this practical manual to the end user, and keep it properly for future inspection and maintenance.

If you have any questions, please contact our company or our agent in time, we will serve you wholeheartedly.

Chapter 1 Selection

Nameplate description



Model: HE100-T3-4R0G

- Power: 4.0KW
- Power: **T1:**Single-phase 220V
  T2: Three-phase 220V
  T3: Three-phase 380V
  T3S: Input:Single-phase 220V
  Output:Three-phase 380V
- HE100 AC Drive

Table 1 Model and technical data of HE100 inverter

AC Drive Model	Power KVA	Input current A	Output current A	Motor	
				kW	HP
single-phase Power：220V，50/60Hz Output：220V					
HE100-T1-0R7	1.5	8.2	4.0	0.75	1
HE100-T1-1R5	3.0	14.0	7.0	1.5	2
HE100-T1-2R2	4.0	23.0	9.6	2.2	3
HE100-T1-3R7	5.5	31.0	17	3.7	4
HE100-T1-5R5	5.5	37.0	25	5.5	5
single-phase Power：220V，50/60Hz Output：380V					
HE100-T3S-0R7	1.5	8.2	2.1	0.75	1
HE100- T3S -1R5	3.0	14.0	3.8	1.5	2
HE100- T3S -2R2	4.0	23.0	5.1	2.2	3
HE100- T3S -3R7	5.5	31.0	9.0	3.7	4
HE100- T3S -5R5	5.5	37.0	13.0	5.5	5
HE100-T3S-7R5	11.0	50.5	17.0	7.5	10
HE100-T3S-11R0	17.0	74.0	25.0	11.0	15
HE100-T3S-15R0	21.0	101.0	32.0	15.0	20
HE100-T3S-18R5	24.0	124.5	37.0	18.5	25
HE100-T3S-22R0	30.0	148.0	45.0	22	30
three-phase Power：380V，50/60Hz Output：380V					
HE100-T3-0R7	1.5	3.4	2.1	0.75	1
HE100-T3-1R5	3.0	5.0	3.8	1.5	2
HE100-T3-2R2	4.0	5.8	5.1	2.2	3
HE100-T3-3R7	5.9	10.5	9.0	3.7	5
HE100-T3-5R5	8.9	14.6	13.0	5.5	7.5
HE100-T3-7R5	11.0	20.5	17.0	7.5	10
HE100-T3-11R0	17.0	26.0	25.0	11.0	15
HE100-T3-15R0	21.0	35.0	32.0	15.0	20
HE100-T3-18R5	24.0	38.5	37.0	18.5	25

AC Drive Model	Power KVA	Input current A	Output current A	Motor	
				kW	HP
HE100-T3-22R0	30.0	46.5	45.0	22	30
HE100-T3-30R0	40.0	62.0	60.0	30	40
HE100-T3-37R0	57.0	76.0	75.0	37	50
HE100-T3-45R0	69.0	92.0	91.0	45	60

Chapter 2 Dimensions

Product dimension

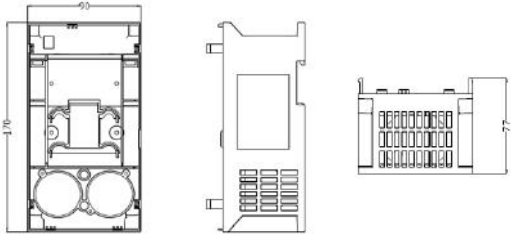


Figure 2-1 HE100 plastic 2.2-4KW structure external dimension and installation dimension diagram

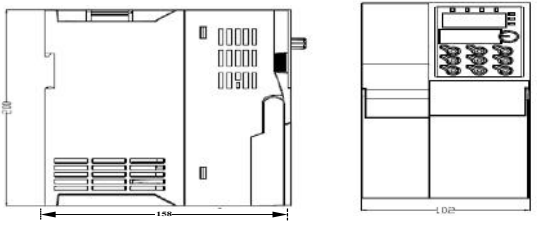


Figure 2-2 HE100 plastic 5.5-7.5KW structure external dimension and installation dimension diagram

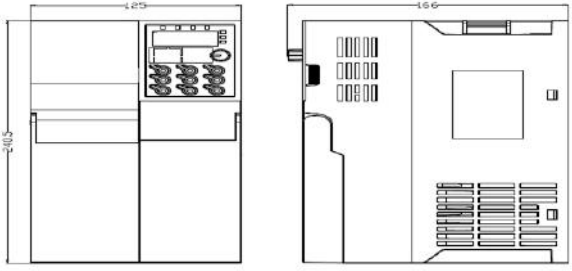


Figure 2-3 HE100 plastic 11-15KW structure external dimension and installation dimension diagram

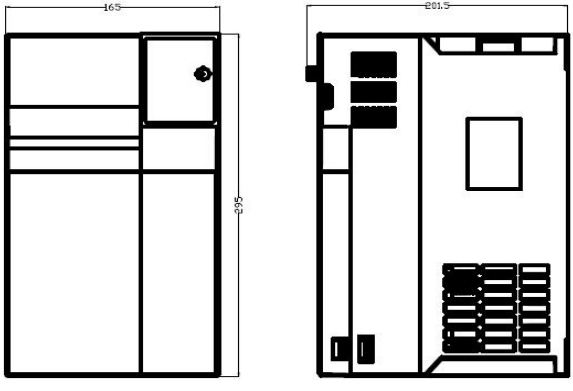


Figure 2-4 HE100 plastic 18-22KW structure external dimension and installation dimension diagram

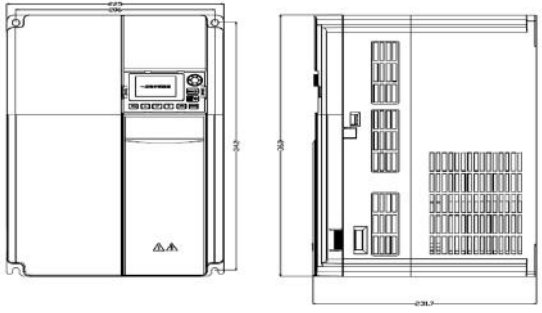


Figure 2-5 HE100 plastic 30-37KW structure external dimension and installation dimension diagram

dimension of external keyboard

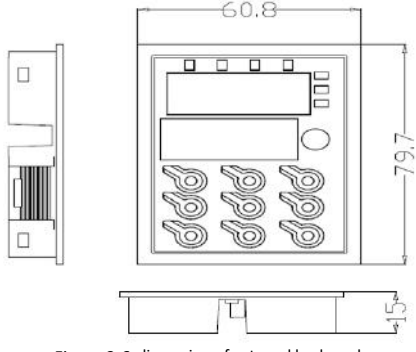


Figure 2-6 dimension of external keyboard

Chapter 3 Wiring

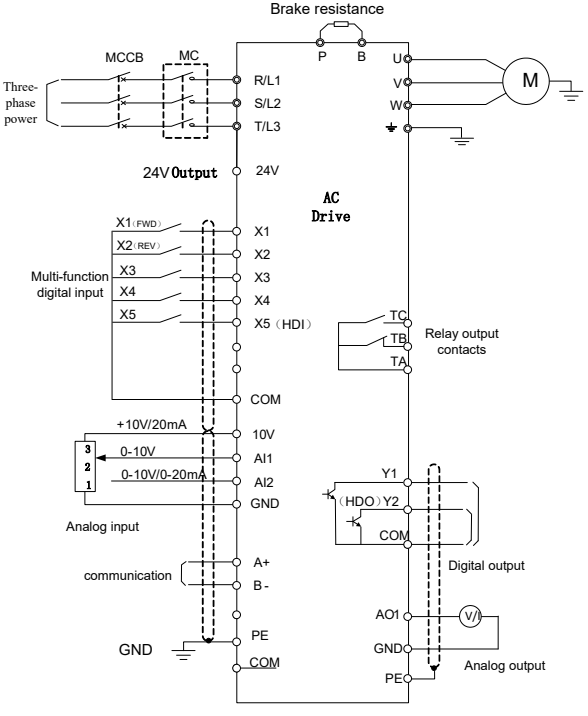


Figure 3-1 HE100 AC Drive Standard Diagram(Three phase-380V)

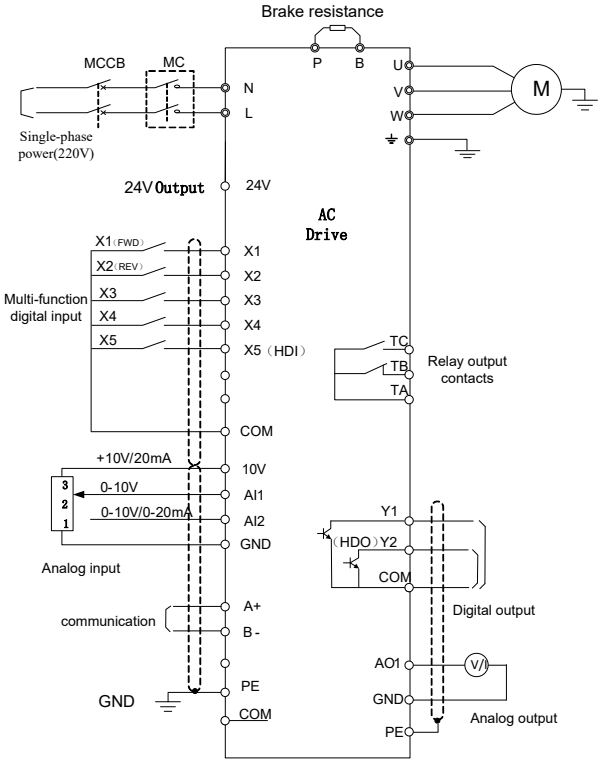


Figure 3-2 HE100 AC Drive Standard Diagram(Single phase-220V)

Table 1 Terminal description

Terminal marking	Name	Illustrate
R、S、T	Power input terminal	AC power connection point
P+,PB	Brake resistor connection	Connect braking resistor
U、V、W	Inverter output terminal	Connect three-phase motor
⏚	Grounding terminal	Grounding terminal

The control circuit terminal layout is as follows:

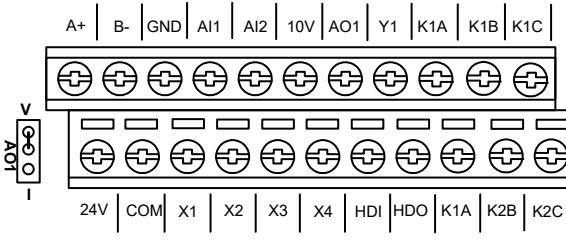


Figure 3-3 Control circuit terminal layout

Chapter 4 Function Code Table

Group P and Group A are standard function parameters. Group D includes the monitoring function parameters.

The symbols in the function code table are described as follows:

"●" : The parameter can be modified when the AC drive is in either stop or running state.

"○" : The parameter cannot be modified when the AC drive is in the running state.

"×" : The parameter is the actually measured value and cannot be modified.

Standard Function Parameters

Function Code	Parameter Name	Setting Range	Default	Property
P0 : Standard Function Parameters				
P0-01	Motor control mode	0：Voltage/Frequency (V/F) control 1：Sensorless flux vector control	0	○
P0-02	Command source selection	0: Operation panel control 1: Terminal control 2: Communication control	0	●
P0-03	Main frequency source A selection	0：Digital setting (non-retentive at power failure) 1：Digital setting (retentive at power failure) 2：AI1 3：AI2 4：AI3(key panel Potentiometer) 5：HDI(X5) 6：Multi-reference 7：Simple PLC 8：PID 9：Communication setting	0	○
P0-04	Auxiliary frequency source B selection	The same as P0-03	0	○
P0-05	Range of auxiliary frequency B	0: Relative to maximum frequency 1: Relative to main frequency X	0	●

Function Code	Parameter Name	Setting Range	Default	Property
P0-06	Range of auxiliary frequency B	0%～150%	100%	●
P0-07	Frequency source selection	**Unit's digit (Frequency source selection)** 0: Main frequency source X 1: X and Y operation (operation relationship determined by ten's digit) 2: Switchover between X and Y 3: Switchover between X and "X and Y operation" 4: Switchover between Y and "X and Y operation" **Ten's digit (X and Y operation relationship)** 0: X+Y 1: X-Y 2: Maximum 3: Minimum	00	●
P0-08	Preset frequency	0.00Hz～maximum frequency（P0.10）	50.00Hz	●
P0-09	Rotation direction	0: Same direction 1: Reverse direction	0	●
P0-10	Maximum fequency	50.00Hz～320.00Hz(P0-22=2) 50.0Hz～3200.0Hz(P0-22=1)	50.00Hz	○
P0-11	Source of frequency upper limit	0：Set by P0-12 1：AI1 2：AI2 3：AI3(key panel Potentiometer) 4：HDI 5：Communication setting	0	○
P0-12	Frequency upper limit	Frequency lower limit (P0-14) to maximum frequency (P0-10)	50.00Hz	●
P0-13	Frequency upper limit offset	0.00 Hz to maximum frequency (P0-10)	0.00Hz	●
P0-14	Frequency lower limit	0.00 Hz to frequency upper limit (P0-12)	0.00Hz	●
P0-15	Carrier frequency	0.5kHz～16.0kHz		●
P0-16	Carrier frequency adjustment with temperature	0: No 1: Yes	1	●
P0-17	Acceleration time 1	0.00s～65000s		●
P0-18	Deceleration time 1	0.00s～65000s		●

Function Code	Parameter Name	Setting Range	Default	Property
P0-19	Acceleration/Deceleration time unit	0:1s 1: 0.1s 2: 0.01s	1	○
P0-21	Frequency offset of auxiliary frequency source for A and B operation	0.00 Hz to maximum frequency (P0.10)	0.00Hz	●
P0-22	Frequency reference resolution	1：0.1Hz 2：0.01Hz	2	○
P0-23	Retentive of digital setting frequency upon power failure	0: Not retentive 1: Retentive	0	●
P0-24	Motor parameter group selection	0: Motor parameter group 1 1: Motor parameter group 2	0	○
P0-25	Acceleration/Deceleration time base frequency	0: Maximum frequency (P0.10) 1: Set frequency 2: 100 Hz	0	○
P0-26	Base frequency for UP/DOWN modification during running	0: Running frequency 1: Set frequency	0	○
P0-27	Binding command source to frequency source	Unit's digit (Binding operation panel command to frequency source) 0：No binding 1：Frequency source by digital setting 2：AI1 3：AI2 4：reserve 5：reserve 6：Multi-reference 7：Simple PLC 8：PID 9：Communication setting Ten's digit (Binding terminal command to frequency source) Hundred's digit (Binding communication command to frequency source)	0000	●

Function Code	Parameter Name	Setting Range	Default	Property
P1：Motor 1 Parameters				
P1-00	Motor type selection	0: Common asynchronous motor 1: Variable frequency asynchronous motor	0	○
P1.01	Rated motor power	0.1kW～1000.0kW	Model dependent	○
P1-02	Rated motor voltage	1V～2000V	Model dependent	○
P1-03	Rated motor current	0.01–655.35 A (AC drive power ≤ 55 kW) 0.1–6553.5 A (AC drive power > 55 kW)	Model dependent	○
P1-04	Rated motor frequency	0.01 Hz to maximum frequency	Model dependent	○
P1-05	Rated motor rotational	1rpm～65535rpm	Model dependent	○
P1-06	Stator resistance (asynchronous motor)	0.001–65.535 Ω (AC drive power ≤ 55 kW) 0.0001–6.5535 Ω (AC drive power > 55 kW)	Model dependent	○
P1-07	Rotor resistance (asynchronous motor)	0.001–65.535 Ω (AC drive power ≤ 55 kW) 0.0001–6.5535 Ω (AC drive power > 55 kW)	Model dependent	○
P1-08	Leakage inductive reactance (asynchronous motor)	0.01–655.35 mH (AC drive power ≤ 55 kW) 0.001–65.535 mH (AC drive power > 55 kW)	Model dependent	○
P1-09	Mutual inductive reactance (asynchronous motor)	0.1–6553.5 mH (AC drive power ≤ 55 kW) 0.01—655.35 mH (AC drive power > 55 kW)	Model dependent	○
P1-10	No-load current (asynchronous motor)	0.01 to F1-03 (AC drive power ≤ 55 kW) 0.1 to F1-03 (AC drive power > 55 kW)	Model dependent	○
P1-37	Auto-tuning selection	0: No auto-tuning 1: Asynchronous motor static auto-tuning 2: Asynchronous motor complete auto-tuning	0	○

Function Code	Parameter Name	Setting Range	Default	Property
P2 : Vector Control Parameters				
P2-00	Speed loop proportional gain 1	1～100	30	●
P2-01	Speed loop integral time 1	0.01s～10.00s	0.50s	●
P2-02	Switchover frequency 1	0.00～P2.05	5.00Hz	●
P2-03	Speed loop proportional gain 2	1～100	20	●
P2-04	Speed loop integral time 2	0.01s～10.00s	1.00s	●
P2-05	Switchover frequency 2	P2.02～maximum output frequency	10.00Hz	●
P2-06	Vector control slip gain	50%～200%	100%	●
P2-07	Time constant of speed loop filter	0.000s～1.000s	0.050s	●
P2-09	Torque upper limit source in speed control mode	0: P2.10 1: AI1 2: AI2 3: AI3 4: Pulse setting (X5) 5: Communication setting	0	●
P2-10	Digital setting of torque upper limit in speed control mode	0.0%～200.0%	150.0%	●
P2-13	Excitation adjustment proportional gain	0～60000	2000	●
P2-14	Excitation adjustment integral gain	0～60000	1300	●
P2-15	Torque adjustment proportional gain	0～60000	2000	●
P2-16	Torque adjustment integral gain	0～60000	1300	●
P2-17	Speed loop integral property	Unit's digit: integral separation 0: Disabled 1: Enabled	0	●

Function Code	Parameter Name	Setting Range	Default	Property
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	0	○
P3-01	Torque boost	0.0% (fixed torque boost) 0.1%–30.0%	Model dependent	●
P3-02	Cut-off frequency of torque boost	0.00 Hz to maximum output frequency	50.00Hz	○
P3-03	Multi-point V/F frequency 1(F1)	0.00Hz to P3.05	0.00Hz	○
P3-04	Multi-point V/F voltage 1(V1)	0.0%～100.0%	0.0%	○
P3-05	Multi-point V/F frequency 2(F2)	P3.03 to P3.07	0.00Hz	○
P3-06	Multi-point V/F voltage 2	0.0%～100.0%	0.0%	○
P3-07	Multi-point V/F frequency 3(F3)	P3.05 to rated motor frequency (P1.04)	0.00Hz	○
P3-08	Multi-point V/F frequency 3(F3)	0.0%～100.0%	0.0%	○
P3-09	Multi-point V/F voltage 3(V3)	0.0%～200.0%	0.0%	●
P3-10	V/F over-excitation gain	0～200	64	●
P3-11	V/F oscillation suppression	0～100	Model dependent	●

Function Code	Parameter Name	Setting Range	Default	Property
P4 : Input Terminals				
P4-00	X1 function selection	0: No function 1: Forward RUN (FWD) 2: Reverse RUN (REV) 3: Three-line control 4: Forward JOG (FJOG) 5: Reverse JOG (RJOG) 6: Terminal UP 7: Terminal DOWN 8: Coast to stop 9: Fault reset (RESET) 10: RUN pause 11: Normally open (NO) input of external fault 12: Multi-reference terminal 1 13: Multi-reference terminal 2 14: Multi-reference terminal 3 15: Multi-reference terminal 4 16: Terminal 1 for acceleration/ deceleration time selection 17: Terminal 2 for acceleration/ deceleration time selection 18: Frequency source switchover 19: UP and DOWN setting clear (terminal, operation panel) 20: Command source switchover terminal 1 21: Acceleration/Deceleration Prohibited 22: PID pause 23: PLC status reset 24: Swing pause 25: Counter input 26: Counter reset 27: Length count input 28: Length reset 29: Torque control prohibited 30: Reserved 31:Reserved 32: Immediate DC braking 33: Normally closed (NC) input of external fault 34: Frequency modification Forbidden 35: Reverse PID action direction 36: External STOP terminal 1	1	○
P4-01	X2 function selection		2	○
P4-02	X3 function selection		9	○
P4-03	X4 function selection		12	○
P4-04	X5 function selection		13	○
P4-05	reserve		0	○
P4-06	reserve		0	○
P4-07	reserve		0	○
P4-08	reserve		0	○

Function Code	Parameter Name	Setting Range	Default	Property
P4-09	reserve	37: Command source switchover terminal 2 38: PID integral pause 39: Switchover between main frequency source X and preset frequency 40: Switchover between auxiliary frequency source Y and preset frequency 41: Motor selection terminal 1 42: Motor selection terminal 2 43: PID parameter switchover 44: User-defined fault 1 45: User-defined fault 2 46: Speed control/Torque control switchover 47: Emergency stop 48: External STOP terminal 2 49: Deceleration DC braking 50: Clear the current running time 51: Switchover between two-line mode and three-line mode 52–59: Reserved	0	○
P4-10	X filter time	0.000s～1.000s	0.010s	●
P4-11	Terminal command mode	0: Two-line mode 1 1: Two-line mode 2 2: Three-line mode 1 3: Three-line mode 2	0	○
P4-12	Terminal UP/DOWN rate	0.001Hz/s～65.535Hz/s	1.00Hz/s	●
P4-13	AI curve 1 minimum input	0.00V～P4.15	0.00V	●
P4-14	Corresponding setting of AI curve 1 minimum input	-100.0%～+100.0%	0.0%	●
P4-15	AI curve 1 maximum input	P4.13～+10.00V	10.00V	●
P4-16	Corresponding setting of AI curve 1 maximum input	-100.0%～+100.0%	100.0%	●
P4-17	AI curve 1 filter time	0.00s～10.00s	0.10s	●

Function Code	Parameter Name	Setting Range	Default	Property
P4-18	AI curve 2 minimum input	0.00V～P4.20	0.00V	●
P4-19	Corresponding setting of AI curve 2 minimum	-100.0%～+100.0%	0.0%	●
P4-20	AI curve 2 maximum input	P4.18～+10.00V	10.00V	●
P4-21	Corresponding setting of AI curve 2 maximum input	-100.0%～+100.0%	100.0%	●
P4-22	AI curve 2 filter time	0.00s～10.00s	0.10s	●
P4-23	AI curve 3 minimum input	-10.00V～P4.25	-10.00V	●
P4-24	Corresponding setting of AI curve 3 minimum input	-100.0%～+100.0%	-100.0%	●
P4-25	AI curve 3 maximum input	P4.23～+10.00V	10.00V	●
P4-26	Corresponding setting of AI curve 3 maximum input	-100.0%～+100.0%	100.0%	●
P4-27	AI curve 3 filter time	0.00s～10.00s	0.10s	●
P4-28	Pulse minimum input	0.00kHz～P4.30	0.00kHz	●
P4-29	Corresponding setting of pulse minimum input	-100.0%～100.0%	0.0%	●
P4-30	Pulse maximum input	P4.28～100.00kHz	50.00kHz	●
P4-31	Corresponding setting of pulse maximum input	-100.0%～100.0%	100.0%	●
P4-32	Pulse filter time	0.00s～10.00s	0.10s	●

Function Code	Parameter Name	Setting Range	Default	Property
P4-33	AI curve selection	Unit's digit (AI1 curve selection) Curve 1 (2 points, see P4.13 to P4.16) Curve 2 (2 points, see P4.18 to P4.21) Curve 3 (2 points, see P4.23 to P4.26) Curve 4 (4 points, see A6-00 to A6-07) Curve 5 (4 points, see A6-08 to A6-15) Ten's digit (AI2 curve selection) same as AI1 Hundred's digit (AI3 curve selection) same as AI1	321	●
P4-34	Setting for AI less than minimum input	Unit's digit (Setting for AI1 less than minimum input) 0: Minimum value 1: 0.0% Ten's digit (Setting for AI2 less than minimum input) same as AI1 Hundred's digit (Setting for AI3 less than minimum input)same as AI1	000	●
P4-35	X valid mode selection 1	Unit's digit (X1 valid mode) 0: High level valid 1: Low level valid Ten's digit (X2 valid mode) same as X1 Hundred's digit (X3 valid mode) same as X1 Thousand's digit (X4 valid mode) same as X1 Ten thousand's digit (reserve) same as X1	00000	○
P4-37	AI2 input signal selection	0: Voltage signal 1: Current signal	0	○
P4-38	X1 delay time	0.0s～3600.0s	0.0s	○
P4-39	X2 delay time	0.0s～3600.0s	0.0s	○
P4-40	X3 delay time	0.0s～3600.0s	0.0s	○

Function Code	Parameter Name	Setting Range	Default	Property
P5 : Output Terminals				
P5-00	HDO output mode	0:High pulse output 1:Switch		
P5-01	HDO function(switch)	0: No output 1: AC drive running 2: Fault output (stop) 3: Frequency-level detection FDT1 output 4: Frequency reached 5: Zero-speed running (no output at stop) 6: Motor overload pre-warning 7: AC drive overload pre-warning 8: Set count value reached 9: Designated count value reached 10: Length reached 11: PLC cycle complete 12: Accumulative running time reached 13: Frequency limited 14: Torque limited 15: Ready for RUN 16: AI1 larger than AI2 17: Frequency upper limit reached 18: Frequency lower limit reached (no output at stop) 19: Under voltage state output 20: Communication setting 21: Reserved 22: Reserved 23: Zero-speed running 2 (having output at stop) 24: Accumulative power-on time reached 25: Frequency level detection FDT2 output 26: Frequency 1 reached 27: Frequency 2 reached 28: Current 1 reached 29: Current 2 reached 30: Timing reached 31: AI1 input limit exceeded 32: Load becoming 0 33: Reverse running 34: Zero current state 35: Module temperature reached	0	●
P5-02	Relay 1 function (T/A-T/B-T/C)		2	●
P5-03	Relay 2 function (T/A-T/B-T/C)		0	●
P5-04	Y1 function		1	●

Function Code	Parameter Name	Setting Range	Default	Property
P5-05	reserve	36: Software current limit exceeded 37: Frequency lower limit reached (having output at stop) 38: Alarm output 39: Motor overheat warning 40: Current running time reached 41: Fault output (There is no output if it is the coast to stop fault and under voltage occurs.)	4	●
P5-06	HDO function	0: Running frequency 1: Set frequency 2: Output current 3: Output torque (absolute value) 4: Output power 5: Output voltage 6: Pulse input 7: AI1 8: AI2 9: AI3 10: Length 11: Count value 12: Communication setting 13: Motor rotational speed 14: Output current 15: Output voltage 16: Output torque (actual value)	0	●
P5-07	AO1 function		0	●
P5-08	AO2 function		1	●
P5-18	Relay 1 output delay time	0.0s～3600.0s	0.0s	●
P5-22	DO valid mode selection	0: Positive logic 1: Negative logic Unit's digit：reserve Ten's digit：Relay 1 valid mode Hundred's digit：reserve Thousand's digit：reserve Ten thousand's digit：reserve	00000	●
P6：Start/Stop Control				
P6.00	Start mode	0: Direct start 1: Rotational speed tracking restart 2: Pre-excited start (asynchronous motor)	0	●

Function Code	Parameter Name	Setting Range	Default	Property
P6-01	Rotational speed tracking mode	0: From frequency at stop 1: From zero speed 2: From maximum frequency	0	○
P6-02	Rotational speed tracking speed	1～100	20	●
P6-03	Startup frequency	0.00Hz～10.00Hz	0.00Hz	●
P6-04	Startup frequency holding time	0.0s～100.0s	0.0s	○
P6-05	Startup DC braking current/Pre-excited current	0%～100%	0%	○
P6-06	Startup DC braking time/ Pre-excited time	0.0s～100.0s	0.0s	○
P6-07	Acceleration/ Deceleration mode	0: Linear acceleration/ deceleration 1: S-curve acceleration/ deceleration A 2: S-curve acceleration/ deceleration B	0	○
P6.08	Time proportion of S-curve start segment	0.0%～（100.0%-P6.09）	30.0%	○
P6-09	Time proportion of S-curve end segment	0.0%～（100.0%-P6.08）	30.0%	○
P6-10	Stop mode	0: Decelerate to stop 1: Coast to stop	0	●
P6-11	Initial frequency of stop DC braking	0.00Hz to maximum frequency	0.00Hz	●
P6-12	Waiting time of stop DC braking	0.0s～100.0s	0.0s	●
P6-13	Stop DC braking current	0%～100%	0%	●
P6-14	Stop DC braking time	0.0s～100.0s	0.0s	●
P6-15	Brake use ratio	0%～100%	100%	●

Function Code	Parameter Name	Setting Range	Default	Property
P7 : Operation Panel and Display				
P7-01	MF.K Key function selection	0: MF.K key disabled 1: Switchover between operation panel control and remote command control (terminal or communication) 2: Switchover between forward rotation and reverse rotation 3: Forward JOG 4: Reverse JOG	0	○
P7-02	STOP/RESET key function	0: STOP/RESET key enabled only in operation panel control 1: STOP/RESET key enabled in any operation mode	1	●
P7-03	LED display running parameters 1	0000–FFFF Bit00: Running frequency 1 (Hz) Bit01: Set frequency (Hz) Bit02: 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) Bit11: AI3 voltage (V) Bit12: Count value Bit13: Length value Bit14: Load speed display Bit15: PID setting	1F	●

Function Code	Parameter Name	Setting Range	Default	Property
P7-04	LED display running parameters 2	0000–FFFF Bit00: PID feedback Bit02: Pulse setting frequency (kHz) Bit03: Running frequency 2 (Hz) Bit04: Remaining running time Bit05: AI1 voltage before correction (V) Bit06: AI2 voltage before correction (V) Bit07: AI3 voltage before correction (V) Bit08: Linear speed Bit09: Current power-on time (Hour) Bit10: Current running time (Min) Bit11: Pulse setting frequency (Hz) Bit12: Communication setting value Bit13: Encoder feedback speed (Hz) Bit14: Main frequency X display (Hz) Bit15: Auxiliary frequency Y display (Hz)	0	●

Function Code	Parameter Name	Setting Range	Default	Property
P7-05	LED display stop parameters	0000–FFFF Bit00: Set frequency (Hz) Bit01: Bus voltage (V) Bit02: DI input status Bit03: DO output status Bit04: AI1 voltage (V) Bit05: AI2 voltage (V) Bit06: AI3 voltage (V) Bit07: Count value Bit08: Length value Bit09: PLC stage Bit10: Load speed Bit11: PID setting Bit12: Pulse setting frequency(kHz)	33	●
P7-06	Load speed display coefficient	0.0001～6.5000	1.0000	●
P7-07	Heatsink temperature of inverter module	0.0℃～100.0℃	-	×
P7-08	Product number	-		
P7-09	Accumulative running time	0h～65535h	-	×
P7-10	Software version 1	-	-	×
P7-11	Software version 2	-	-	×
P7-12	Number of decimal places for load speed display	0: 0 decimal place 1: 1 decimal place 2: 2 decimal places 3: 3 decimal places	1	●
P7-13	Accumulative power-on time	0h～65535h	-	×
P7-14	Accumulative power consumption	0kW～65535 kwh	-	×

Function Code	Parameter Name	Setting Range	Default	Property
P8：Auxiliary Functions				
P8-00	JOG running frequency	0.00Hz～maximum frequency	2.00Hz	●
P8-01	JOG acceleration time	0.0s～6500.0s	20.0s	●
P8-02	JOG deceleration time	0.0s～6500.0s	20.0s	●
P8-03	Acceleration time 2	0.0s～6500.0s	Model dependent	●
P8-04	Deceleration time 2	0.0s～6500.0s	Model dependent	●
P8-05	Acceleration time 3	0.0s～6500.0s	Model dependent	●
P8-06	Deceleration time 3	0.0s～6500.0s	Model dependent	●
P8-07	Acceleration time 4	0.0s～6500.0s	Model dependent	●
P8-08	Deceleration time 4	0.0s～6500.0s	Model dependent	●
P8-09	Jump frequency 1	0.00Hz～maximum frequency	0.00Hz	●
P8-10	Jump frequency 2	0.00Hz～maximum frequency	0.00Hz	●
P8-11	Frequency jump amplitude	0.00Hz～maximum frequency	0.01Hz	●
P8-12	Forward/Reverse rotation dead-zone time	0.0s～3000.0s	0.0s	●
P8-13	Reverse control	0: Enabled 1: Disabled	0	●
P8-14	Running mode when set frequency lower than frequency lower limit	0: Run at frequency lower limit 1: Stop 2: Run at zero speed	0	●
P8-15	Droop control	0.00Hz～10.00Hz	0.00Hz	●
P8-16	Accumulative power-on time threshold	0h～65000h	0h	●
P8-17	Accumulative running time threshold	0h～65000h	0h	●
P8-18	Startup protection	0: No 1: Yes	0	●

P8-19	Frequency detection value (FDT1)	0.00Hz～maximum frequency	50.00Hz	●
P8-20	Frequency detection hysteresis (FDT hysteresis 1)	0.0%～100.0% (FDT1 level)	5.0%	●
P8-21	Detection range of frequency reached	0.0%～100.0% (maximum requency)	0.0%	●
P8-22	Jump frequency during acceleration/decelera	0: Disabled 1: Enabled	0	●
P8-25	Frequency switchover point between acceleration	0.00Hz～maximum frequency	0.00Hz	●
P8-26	Frequency switchover point between deceleration	0.00Hz～maximum frequency	0.00Hz	●
P8-27	Terminal JOG preferred	0: Disabled 1: Enabled	0	●
P8-28	Frequency detection value(FDT2)	0.00Hz～maximum frequency	50.00Hz	●
P8-29	Frequency detection hysteresis (FDT hysteresis 2)	0.0%～100.0% (FDT2 level)	5.0%	●
P8-30	Any frequency reaching detection value 1	0.00Hz～maximum frequency	50.00Hz	●
P8-31	Any frequency reaching detection amplitude 1	0.0%～100.0% (maximum frequency)	0.0%	●
P8-32	Any frequency reaching detection value 2	0.00Hz～maximum frequency	50.00Hz	●
P8-33	Any frequency reaching detection amplitude 2	0.0%～100.0% (maximum frequency)	0.0%	●
P8-34	Zero current detection level	0.0%–300.0% (rated motor current)	5.0%	●
P8-35	Zero current detection delay time	0.01s～600.00s	0.10s	●
P8-36	Output overcurrent threshold	0.0% (no detection) 0.1%–300.0% (rated motor current)	200.0%	●
P8-37	Output overcurrent detection delay time	0.00s～600.00s	0.00s	●

Function Code	Parameter Name	Setting Range	Default	Property
P8-38	Any current reaching 1	0.0%–300.0% (rated motor current)	100.0%	●
P8-39	Any current reaching 1 amplitude	0.0%–300.0% (rated motor current)	0.0%	●
P8-40	Any current reaching 2	0.0%–300.0% (rated motor current)	100.0%	●
P8-41	Any current reaching 2 amplitude	0.0%–300.0% (rated motor current)	0.0%	●
P8-42	Timing function	0: Disabled 1: Enabled	0	●
P8-43	Timing duration source	0: P8.44 1: AI1 2: AI2 3: AI3 (100% of analog input corresponds	0	●
P8-44	Timing duration	0.0Min～6500.0Min	0.0Min	●
P8-45	AI1 input voltage lower limit	0.00V～P8.46	3.10V	●
P8-46	AI1 input voltage upper limit	P8.45～10.00V	6.80V	●
P8-47	Module temperature threshold	0℃～100℃	75℃	●
P8-48	Cooling fan control	0: Fan working during running 1: Fan working continuously	0	●
P8-49	Wakeup frequency	Dormant frequency (P8.51) to maximum frequency (P0.10)	0.00Hz	●
P8-50	Wakeup delay time	0.0s～6500.0s	0.0s	●
P8-51	Dormant frequency	0.00Hz～wakeup frequency（P8.49）	0.00Hz	●
P8-52	Dormant delay time	0.0s～6500.0s	0.0s	●
P8-53	Current running time reached	0.0Min～6500.0Min	0.0Min	●

Function Code	Parameter Name	Setting Range	Default	Property
P9：Fault and Protection				
P9-00	Motor overload protection selection	0: Disabled 1: Enabled	1	●
P9-01	Motor overload protection gain	0.20～10.00	1.00	●
P9-02	Motor overload warning coefficient	50%～100%	80%	●
P9-03	Overvoltage stall Gain	0～100	0	●
P9-04	Overvoltage stall protective	200.0V～2000.0V	760V	●
P9-05	Current limit gain	0～100	20	●
P9-06	Current limit level	50%～200%	150%	●
P9-07	Short-circuit to ground upon	0: Disabled 1: Enabled	1	●
P9-08	Brake unit opening voltage	200.0～2000.0V	670	●
P9-09	Fault auto reset times	0～20	0	●
P9-10	DO action during fault auto reset	0: Not act 1: Act	0	●
P9-11	Time interval of fault auto reset	0.1s～100.0s	1.0s	●
P9-12	Input phase loss protection/ contactor nergizing protection election	Unit's digit: Input phase loss protection Ten's digit: Contactor energizing protection 0: Disabled 1: Enabled	11	●
P9-13	Output phase loss protection selection	0: Disabled 1: Enabled	1	●

Function Code	Parameter Name	Setting Range	Default	Property
P9-14	1st fault type	E0: No fault E1: Reserved E2: Overcurrent during acceleration E3: Overcurrent during deceleration E4: Overcurrent at constant speed E5: Overvoltage during acceleration E6: Overvoltage during deceleration E7: Overvoltage at constant speed E8: Buffer resistance overload E9: Undervoltage E10: AC drive overload E11: Motor overload E12:Power input phase loss E13: Power output phase loss E14: Module overheat E15: External equipment fault E16: Communication fault E17: Contactor fault E18: Current detection fault E19: Motor auto-tuning fault E20: Encoder/PG card fault E21: EEPROM read-write fault E22: AC drive hardware fault E23: Short circuit to ground E24: Reserved E25: Reserved 26: Accumulative running time reached E27: User-defined fault 1 E28: User-defined fault 2 E29: Accumulative power-on time reached E30: Load becoming 0 E31: PID feedback lost during Running E40: With-wave current limit fault E41: Motor switchover fault during running E42: Too large speed deviation E43: Motor over-speed E45: Motor overheat E51: Initial position fault E60：Brake resistor fault	—	×
P9-15	2nd fault type		—	×

Function Code	Parameter Name	Setting Range	Default	Property
P9-16	3rd (latest) fault type	Same as P9.14、 P9.15	—	×
P9-17	Frequency upon 3rd fault	—	—	×
P9-18	Current upon 3rd fault	—	—	×
P9-19	Bus voltage upon 3rd fault	—	—	×
P9-20	DI status upon 3rd fault	—	—	×
P9-21	Output terminal status upon 3rd fault	—	—	×
P9-22	AC drive status upon 3rd fault	—	—	×
P9-23	Power-on time upon 3rd fault	—	—	×
P9-24	Running time upon 3rd fault	—	—	×
P9-27	Frequency upon 2nd fault	—	—	×
P9-28	Current upon 2nd fault	—	—	×
P9-29	Bus voltage upon 2nd fault	—	—	×
P9-30	DI status upon 2nd fault	—	—	×
P9-31	Output terminal status upon 2nd fault	—	—	×
P9-32	AC drive status upon 2rd fault	—	—	×
P9-33	Power-on time upon 2rd fault	—	—	×
P9-34	Running time upon 2rd fault	—	—	×

Function Code	Parameter Name	Setting Range	Default	Property
P9-37	Frequency upon 1st fault	—	—	×
P9-38	Current upon 1st fault	—	—	×
P9-39	Bus voltage upon 1rd fault	—	—	×
P9-40	DI status upon 1nd fault	—	—	×
P9-41	Output terminal status upon 1nd fault	—	—	×
P9-42	AC drive status upon 1rd fault	—	—	×
P9-43	Power-on time upon 1rd fault	—	—	×
P9-44	Running time upon 1rd fault	—	—	×
P9-47	Fault protection action selection 1	Unit's digit (Motor overload, E11) 0: Coast to stop 1: Stop according to the stop mode 2: Continue to run Ten's digit (Power input phase loss, E12) Hundred's digit (Power output phase loss, E13) Thousand's digit (External equipment fault, E15) Ten thousand's digit (Communication fault, E16)	00000	●
P9-48	Fault protection action selection 2	Unit's digit (Encoder fault, E20) 0: Coast to stop 1: Stop according to the stop Mode Ten's digit (EEPROM read-write fault, E21) Hundred's digit: reserved Thousand's digit (Motor overheat,E25) Ten thousand's digit (Accumulative running time reached,E26)	00000	●

Function Code	Parameter Name	Setting Range	Default	Property
P9-49	Fault protection action selection 3	Unit's digit (User-defined fault 1,E27) Same as unit's digit in P9-47 Ten's digit (User-defined fault 2,E28)) Same as unit's digit in P9.47 Hundred's digit (Accumulative power-on time reached, E29) Same as unit's digit in P9.47 Thousand's digit (Load becoming0, E30) 0: Coast to stop 1: Stop according to the stop mode 2: Continue to run at 7% of rated motor frequency and resume to the set frequency if the load recovers Ten thousand's digit (PID feedback lost during running, E31) Same as unit's digit in P9-47	00000	●
P9-50	Fault protection action selection 4	Unit's digit (Too large speed deviation, E42) Same as unit's digit in P9-47 Ten's digit (Motor over-speed, E43) Hundred's digit (Initial position fault, E51)	00000	●
P9-54	Frequency selection for continuing to run upon fault	0: Current running frequency 1: Set frequency 2: Frequency upper limit 3: Frequency lower limit 4: Backup frequency upon abnormality	0	●
P9-55	Backup frequency upon abnormality	0-0%–100.0% (maximum frequency)	100.0%	●
P9-56	Type of motor temperature sensor	0: No temperature sensor 1: PT100 2: PT1000	0	●
P9-57	Motor overheat protection	0℃～200℃	110℃	●
P9-58	Motor overheat warning threshold	0℃～200℃	90℃	●

Function Code	Parameter Name	Setting Range	Default	Property
P9-59	Action selection at instantaneous power failure	0: Invalid 1: Decelerate 2: Decelerate to stop	0	●
P9-60	Action pause judging voltage at instantaneous power failure	80.0%～100.0%	85.0%	●
P9-61	Voltage rally judging time at instantaneous power failure	0.00s～100.00s	0.50s	●
P9-62	Action judging voltage at instantaneous power failure	60.0%～100.0%(standard bus voltage)	80.0%	●
P9-63	Protection upon load becoming 0	0: Disabled 1: Enabled	0	●
P9-64	Detection level of load becoming 0	0.0～100.0%	10.0%	●
P9-65	Detection time of load becoming 0	0.0～60.0s	1.0s	●

Function Code	Parameter Name	Setting Range	Default	Property
PA：Fault and Protection				
PA-00	PID setting source	0：PA-01 set 1：AI1 2：AI2 3：AI3 4: Pulse setting (DI5) 5: Communication setting 6: Multi-reference	0	●
PA-01	PID digital setting	0.0%～100.0%	50.0%	●
PA-02	PID feedback source	0：AI1 1：AI2 2：AI3 3：AI1−AI2 4: Pulse setting (DI5) 5: Communication setting 6: AI1 + AI2 7: MAX (|AI1|, |AI2|) 8: MIN (|AI1|, |AI2|)	0	●
PA-03	PID action direction	0: Forward action 1: Reverse action	0	●
PA-04	PID setting feedback range	0～65535	1000	●
PA-05	Proportional gain Kp1	0.0～100.0	20.0	●
PA-06	Integral time Ti1	0.01s～10.00s	2.00s	●
PA-07	Differential time Td1	0.000s～10.000s	0.000s	●
PA-08	Cut-off frequency of PID reverse rotation	0.00～最大频率	2.00Hz	●
PA-09	PID deviation limit	0.0%～100.0%	0.0%	●
PA-10	PID differential limit	0.00%～100.00%	0.10%	●
PA-11	PID setting change time	0.00～650.00s	0.00s	●
PA-12	PID feedback filter time	0.00～60.00s	0.00s	●
PA-13	PID output filter time	0.00～60.00s	0.00s	●

PA-14	Reserved			
PA-15	Proportional gain Kp2	0.0～100.0	20.0	●
PA-16	Integral time Ti2	0.01s～10.00s	2.00s	●
PA-17	Differential time Td2	0.000s～10.000s	0.000s	●
PA-18	PID parameter switchover condition	0: No switchover 1: Switchover via DI 2: Automatic switchover based on deviation	0	●
PA-19	PID parameter switchover deviation 1	0.0%～PA.20	20.0%	●
PA-20	PID parameter switchover deviation 2	PA.19～100.0%	80.0%	●
PA-21	PID initial value	0.0%～100.0%	0.0%	●
PA-22	PID initial value holding time	0.00～650.00s	0.00s	●
PA-23	Maximum deviation between two PID outputs in forward direction	0.00%～100.00%	1.00%	●
PA-24	Maximum deviation between two PID outputs in reverse direction	0.00%～100.00%	1.00%	●
PA-25	PID integral property	Unit's digit (Integral separated) 0: Invalid 1: Valid Ten's digit (Whether to stop integral operation when the output reaches the limit) 0: Continue integral operation 1: Stop integral operation	00	●
PA-26	Detection value of PID feedback loss	0.0%：Not judging feedback loss 0.1%～100.0%	0.0%	●
PA-27	Detection time of PID feedback loss	0.0s～20.0s	0.0s	●
PA-28	PID operation at stop	0: No PID operation at stop 1: PID operation at stop	0	●

Function Code	Parameter Name	Setting Range	Default	Property
Pb：Swing Frequency, Fixed				
Pb-00	Swing frequency setting mode	0: Relative to the central frequency 1: Relative to the maximum frequency	0	●
Pb-01	Swing frequency amplitude	0.0%～100.0%	0.0%	●
Pb-02	Jump frequency amplitude	0.0%～50.0%	0.0%	●
Pb-03	Swing frequency cycle	0.1s～3000.0s	10.0s	●
Pb-04	Triangular wave rising time coefficient	0.1%～100.0%	50.0%	●
Pb-05	Set length	0m～65535m	1000m	●
Pb-06	Actual length	0m～65535m	0m	●
Pb-07	Number of pulses per meter	0.1～6553.5	100.0	●
Pb-08	Set count value	1～65535	1000	●
Pb-09	Designated count value	1～65535	1000	●
PC：Multi-Reference and Simple PLC Function				
PC-00	Reference 0	-100.0%～100.0%	0.0%	●
PC-01	Reference 1	-100.0%～100.0%	0.0%	●
PC-02	Reference 2	-100.0%～100.0%	0.0%	●
PC-03	Reference 3	-100.0%～100.0%	0.0%	●
PC-04	Reference 4	-100.0%～100.0%	0.0%	●
PC-05	Reference 5	-100.0%～100.0%	0.0%	●
PC-06	Reference 6	-100.0%～100.0%	0.0%	●
PC-07	Reference 7	-100.0%～100.0%	0.0%	●
PC-08	Reference 8	-100.0%～100.0%	0.0%	●
PC-09	Reference 9	-100.0%～100.0%	0.0%	●
PC-10	Reference 10	-100.0%～100.0%	0.0%	●

Function Code	Parameter Name	Setting Range	Default	Property
PC-11	Reference 11	-100.0%～100.0%	0.0%	●
PC-12	Reference 12	-100.0%～100.0%	0.0%	●
PC-13	Reference 13	-100.0%～100.0%	0.0%	●
PC-14	Reference 14	-100.0%～100.0%	0.0%	●
PC-15	Reference 15	-100.0%～100.0%	0.0%	●
PC-16	Simple PLC running mode	0: Stop after the AC drive runs one cycle 1: Keep final values after the AC drive runs one cycle 2: Repeat after the AC drive runs one cycle	0	●
PC-17	Simple PLC retentive selection	Unit's digit (Retentive upon power failure) 0: No 1: Yes Ten's digit (Retentive upon stop) 0: No 1: Yes	00	●
PC-18	Running time of simple PLC reference 0	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-19	Acceleration/deceleration time of simple PLC reference 0	0～3	0	●
PC-20	Running time of simple PLC reference 1	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-21	Acceleration/deceleration time of simple PLC reference 1	0～3	0	●
PC-22	Running time of simple PLC reference 2	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-23	Acceleration/deceleration time of simple PLC reference 2	0～3	0	●
PC-24	Running time of simple PLC reference 3	0.0s（h）～6553.5s（h）	0.0s（h）	●

Function Code	Parameter Name	Setting Range	Default	Property
PC-25	Acceleration/deceleration time of simple PLC reference 3	0～3	0	●
PC-26	Running time of simple PLC reference 4	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-27	Acceleration/deceleration time of simple PLC reference 4	0～3	0	●
PC-28	Running time of simple PLC reference 5	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-29	Acceleration/deceleration time of simple PLC reference 5	0～3	0	●
PC-30	Running time of simple PLC reference 6	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-31	Acceleration/deceleration time of simple PLC reference 6	0～3	0	●
PC-32	Running time of simple PLC reference 7	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-33	Acceleration/deceleration time of simple PLC reference 7	0～3	0	●
PC-34	Running time of simple PLC reference 8	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-35	Acceleration/deceleration time of simple PLC reference 8	0～3	0	●
PC-36	Running time of simple PLC reference 9	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-37	Acceleration/deceleration time of simple PLC reference 9	0～3	0	●
PC-38	Running time of simple PLC reference 10	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-39	Acceleration/deceleration time of simple PLC reference 10	0～3	0	●

Function Code	Parameter Name	Setting Range	Default	Property
PC-40	Running time of simple PLC reference 11	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-41	Acceleration/deceleration time of simple PLC reference 11	0～3	0	●
PC-42	Running time of simple PLC reference 12	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-43	Acceleration/deceleration time of simple PLC reference 12	0～3	0	●
PC-44	Running time of simple PLC reference 13	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-45	Acceleration/deceleration time of simple PLC reference 13	0～3	0	●
PC-46	Running time of simple PLC reference 14	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC.47	Acceleration/deceleration time of simple PLC reference 14	0～3	0	●
PC-48	Running time of simple PLC reference 15	0.0s（h）～6553.5s（h）	0.0s（h）	●
PC-49	Acceleration/deceleration time of simple PLC reference 15	0～3	0	●
PC-50	Time unit of simple PLC running	0: s (second) 1:h (hour)	0	●
PC-51	Reference 0 source	0: Set by FC-00 1: AI1 2: AI2 3: AI3 4: Pulse setting 5: PID 6: Set by preset frequency (F0-08), modified via terminal UP/DOWN	0	●

Function Code	Parameter Name	Setting Range	Default	Property
Pd：Communication Parameters				
Pd-00	Baud rate	**Unit's digit : MODBUS（bps）** 0：300 1：600 2：1200 3：2400 4：4800 5：9600 6：19200 7：38400 8：57600 9：115200 **Ten's digit : reserve** **Hundred's digit : reserve**	0005	●
Pd-01	Data format	0：No check, data format（1-8-N-2） 1：Even parity check, data format（1-8-E-1） 2：Odd Parity check, data format（1-8-O-1） 3：No check, data format（1-8-N-1）	3	●
Pd-02	Local address	1～247，0 :Broadcast address	1	●
Pd-03	Response delay	0ms～20ms	2	●
Pd-04	Communication timeout	0.0（invalid），0.1s～60.0s	0.0	●
Pd-05	Modbus protocol selection and PROFIBUS-DP data format	**Unit's digit : MODBUS** 0: Non-standard Modbus protocol 1: Standard Modbus protocol **Ten's digit: reserve**	01	●
Pd-06	Communication reading current resolution	0：0.01A 1：0.1A	0	●

Function Code	Parameter Name	Setting Range	Default	Property
PP：Function Code Management				
PP-00	User password	0～65535	0	●
PP-01	Restore default settings	0: No operation 01: Restore factory settings except motor parameters 02: Clear records 04: Restore user backup parameters 501: Back up current user parameters	0	○
PP-02	AC drive parameter display property	**Unit's digit (Group U display selection)** 0: Not display 1: Display **Ten's digit (Group A display selection)** 0: Not display 1: Display	11	○

Function Code	Parameter Name	Setting Range	Default	Property
A5: Control Optimization Parameters				
A5.00	DPWM switchover frequency	0.00Hz～maximum output frequency	8.00Hz	●
A5.01	PWM modulation mode	0: Asynchronous modulation 1: Synchronous modulation	0	●
A5.02	Dead zone ompensation mode selection	0: No compensation 1: Compensation mode 1	1	●
A5.03	Random PWM depth	0: Random PWM invalid 1–10	0	●
A5.04	Rapid current limit	0: Disabled1: Enabled	1	●
A5.05	Current detection compensation	0～100	5	●
A5.06	Undervoltage threshold	200.0～2000.0V	Model dependent	●
A5.07	SFVC optimization mode selection	1: Optimization mode 1 2: Optimization mode 2	2	●
A5.08	Dead-zone time adjustment	100%～200%	150%	●
A5.09	Overvoltage threshold	200.0～2000.0V	Model dependent	●
A6.07	Corresponding setting of AI curve 4 maximum input	-100.0%～+100.0%	100.0%	●
A6.08	AI curve 5 minimum input	-10.00V～A6.10	-10.00V	●
A6.09	Corresponding setting of AI curve 5 minimum input	-100.0%～+100.0%	-100.0%	●
A6.10	AI curve 5 inflexion 1 input	A6.08～A6.12	-3.00V	●
A6.11	Corresponding setting of AI curve 5 inflexion 1 input	-100.0%～+100.0%	-30.0%	●
A6.12	AI curve 5 inflexion 1 input	A6.10～A6.14	3.00V	●

Monitoring Parameters

Function Code	Parameter Name	Min. Unit	Communication Address
U0：Standard Monitoring Parameters			
U0.01	Running frequency (Hz)	0.01Hz	7000H
U0.01	Set frequency (Hz)	0.01Hz	7001H
U0.02	Bus voltage	0.1V	7002H
U0.03	Output voltage	1V	7003H
U0.04	Output current	0.01A	7004H
U0.05	Output power	0.1kW	7005H
U0.06	Output torque	0.1%	7006H
U0.07	Digital input(X) state	1	7007H
U0.08	Digital output(Y) state	1	7008H
U0.09	AI1 voltage (V)	0.01V	7009H
U0.10	AI2 voltage (V)	0.01V	700AH
U0.11	AI3 voltage (V)	0.01V	700BH
U0.12	Count value	1	700CH
U0.13	Length value	1	700DH
U0.14	Load speed	1	700EH
U0.15	PID setting	1	700FH
U0.16	PID feedback	1	7010H
U0.17	PLC stage	1	7011H
U0.18	Input pulse frequency (Hz)	0.01kHz	7012H
U0.19	Feedback speed	0.1Hz	7013H
U0.20	Remaining running time	0.1Min	7014H
U0.21	AI1 voltage before correction	0.001V	7015H
U0.22	AI2 voltage (V)/current (mA) before correction	0.001V	7016H
U0.23	AI3 voltage before correction	0.001V	7017H

Function Code	Parameter Name	Min. Unit	Communication Address
U0-24	Linear speed	1m/Min	7018H
U0-25	Accumulative power-on time	1Min	7019H
U0-26	Accumulative running time	0.1Min	701AH
U0-27	Pulse input frequency	1Hz	701BH
U0-28	Communication setting value	0.01%	701CH
U0-29	Encoder feedback speed	0.01Hz	701DH
U0-30	Main frequency X	0.01Hz	701EH
U0-31	Auxiliary frequency Y	0.01Hz	701FH
U0-32	Viewing any register address value	1	7020H
U0-34	Motor temperature	1℃	7022H
U0-35	Target torque	0.1%	7023H
U0-37	Power factor angle	0.1°	7025H
U0-39	Target voltage upon V/F separation	1V	7027H
U0-40	Output voltage upon V/F separation	1V	7028H
U0-41	DI state visual display	1	7029H
U0-42	DO state visual display	1	702AH
U0-43	DI function state visual display 1	1	702BH
U0-44	DI function state visual display 2	1	702CH
U0-45	Fault information	1	702DH
U0-59	Current set frequency	0.01%	703BH
U0-60	Current running frequency	0.01%	703CH
U0-61	AC drive running state	1	703DH
U0-65	Torque upper limit	0.01%	7041H
U0-74	Torque output	1%	7047H

Summary of fault information

Display	Fault Name	Display	Fault Name
Err01	Inverter unit protection	Err18	Current detection fault
Err02	Overcurrent during acceleration	Err19	Motor auto-tuning fault
Err03	Overcurrent during deceleration	Err20	Encoder fault
Err04	Overcurrent at constant speed	Err21	EEPROM read write fault
Err05	Overvoltage during acceleration	Err22	AC drive hardware fault
Err06	Overvoltage during deceleration	Err23	Short circuit to ground
Err07	Overvoltage at constant speed	Err26	Accumulative running time reached
Err08	Control power supply fault	Err29	Accumulative power-on time reached
Err09	Under voltage	Err30	Load becoming 0
Err10	AC drive overload	Err31	PID feedback lost during running
Err11	Motor overload	Err40	Pulse-by-pulse current limit fault
Err12	Power input phase loss	Err41	Motor switchover fault during running
Err13	Power output phase loss	Err42	Too large speed deviation
Err14	Module overheat	Err43	Motor over-speed
Err15	External equipment fault	Err45	Motor overheat
Err16	Communication fault	Err51	Initial position fault
Err17	Contactor fault	Err60	Braking resistor failure

Warranty commitment

The warranty scope only refers to the inverter itself, and the warranty period starts from the date of shipment from the company.

1. The warranty period of this product is within twelve months after purchase (except for products exported to foreign countries/non-standard machines).

2. If the failure is caused by the following reasons, even within the warranty period, it is also a paid maintenance:

. Problems caused by incorrect operation or self-repair and modification without permission;

. Problems caused by the use of frequency converters beyond the requirements of the standard specifications;

. Damage caused by fall or rough handling after purchase;

. Problems or failures caused by use in an environment that does not meet the requirements of the manual; damage to the inverter caused by incorrect wiring;

. Failures caused by earthquakes, fires, feng shui disasters, lightning strikes, abnormal voltages or other natural disasters and related reasons.

. For malfunctioning products, the company has the right to entrust others to be responsible for warranty matters.

3. Relevant service fees are calculated according to actual costs, and if there is an agreement, the agreement shall prevail.

4. The company's sales, production, and agency agencies all over the country can provide after-sales service for this product.

5. In the following cases, the manufacturer has the right not to provide warranty services:

. When the manufacturer's brand, trademark, serial number, nameplate and other marks on the product are damaged or unrecognizable;

. When the user fails to pay the purchase price in accordance with the "Purchase and Sale Contract" signed by both parties;

. When the user deliberately conceals the improper use of the product during installation, wiring, operation, maintenance or other processes from the manufacturer’s after-sales service provider.