Inverter Operation Instructions

AT901-7.5KW Vector Universal Inverter

V1.0

A brief of the parameters table for the AT901-7.5KW high-performance vector frequency converter

The manual provides precautions and guidance for user type selection, installation, parameter setting, site commissioning, fault diagnosis and daily maintenance and maintenance

Chapter | Product information

1.1 Inverter series

	AT901 series			Braking Resistor		
	Mode1	Adaptive motor		Output	W	Ohm
	Model		HP	Current:A	YY	OHIII
	901-0K7G1	0.7	1	4.0	80	150
	901-1K5G1	1.5	2	7. 0	100	100
22	901-2K2G1	2. 2	3	9.6	100	70
OV	901-3K7G1	3. 7	5	17.0	300	50
	901-5K5G1	5. 5	7. 5	25.0	400	45
	901-7 K 5G1	7. 5	10	34. 0	600	40

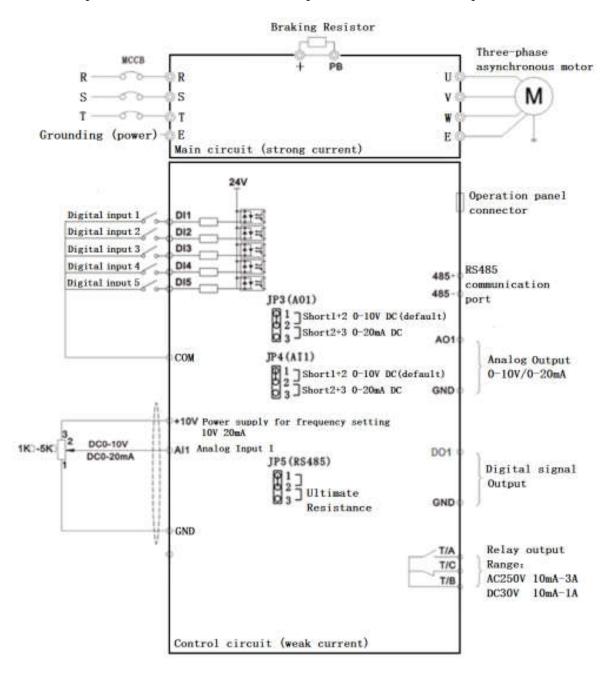
1.2 Product Specification

Р	roject	Standard
	System	Current vector universal frequency converter
	Drive	High-efficiency drive of the Induction Motor
	Maxima1	Vector control: 0-500Hz
	Frequency	V/F control: 0-3200Hz.
	Carrier	0.5KHz-16KHz
	Frequency	The carrier frequency can be adjusted
Basic Funct	Frequency	Digital setting: 0.01Hz
	resolutiony	Simulation setting: ±0.025%
ion	Control	Open-loop vector control (SVC)
	Mode	V/F control
	Starting	Type-G Mode: 0.3Hz/150% (SVC).
	torque	Type-P Mode: 0.3Hz/100%
	Range of	1: 100 (SVC)
	Stable Stable	±0.5% (SVC)
	Overload	Type G:150% Rated Current 120s;180% for 10s
	capacity	Type P:120% Rated Current for 60s;150% for 3s
	Torque	Automatic torque increase;
	rise	Manual torque increase: 0.1% -30.0%

P	roject	Standard
	V/F curve	Three ways: straight line; multi-point; N secondary V / F curve (1.2,1.4,1.6,1.8, and
	Curve Acc/Dec mode	Line or S curve acceleration and deceleration mode, four Acc/Dec times, Acc/Dec time range 0.0-6500.0s
	DC Braking	Brake frequency: 0.00Hz-Maximum frequency; Brake time:.0s-36.0s Brake current value: 0.0% -100.0%
	Jog control	Jog frequency range: 0.00Hz-50.00Hz; Acc & Dec time: 0.0s-6500.0s.
	Up to 16 seg terminal	gment speed runs with a built-in PLC or control
	built-in PID	It can easily realize the process control closed-loop control system
	AVR Function	When the input voltage jitter, the output voltage can be automatically kept constant
	Stall control	Automatically limited the current and voltage to prevent frequent overvoltage tripping.
	Fast current limiting	Minimize the overcurrent fault and protect the normal operation of the frequency converter
	Torque limit and control	Automatically limit the torque during operation to prevent frequent overcurrent tripping, and the vector mode of closed loop can realize torque control
	Instant power non-stop	When instantaneous power failure is achieved, load feedback energy compensation is used to maintain the converter running in a short
	Timing Command	Set the time range of 0.0Min-6500.0Min. Control panel, Control terminal, Serial port, can be switched in multiple ways
Oper ating	Frequency source	Panel potentiometer, Number given, External analog voltage/current input, and serial port input.can be switched in multiple ways
	Input Terminal	Five digital input terminals 1 analog quantity input terminal;
		One O-10V voltage or O-20mA current input;
	Output Terminal	1 digital output terminal 1 relay output terminal (TA, TB, TC) 1 analog output terminal, supporting 0-10V or 0-20mA voltage output

P	roject	Standard
	Protectio n function	Power on motor short circuit detection, input and output phase loss protection, overcurrent protection, overvoltage protection, undervoltage protection, overheating protection and overload protection, etc
loop	Use place	Indoor, not direct sunlight, no dust, corrosive gas, combustible gas, oil fog, steam, water or salt, etc
The envi	Above sea level	under 1000m 2C116699
ronm ent	Ambient temperature	-10° C $^{\circ}$ + 40° C (ambient temperature is 40° C $^{\circ}$ 50 $^{\circ}$ C, please decrease the amount)
	humidity	Less than 95%RH, anhydrous condensation
	vibrate	Less than 5.9m/s (0.6g)

1.3 Description of the control loop and the main loop terminal



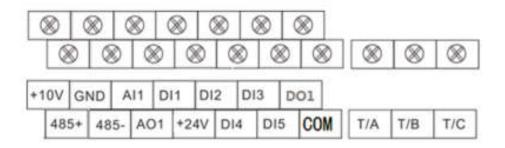


Figure 1-3-1 0.75-11.0 KW wiring diagram control terminal description

Chapter 2 Operation and display

Function indicator lamp description

- ♦Hz:Frequency display indicator lamp
- ♦V: Voltage indicator lamp
- ♠A: Current indicator lamp
- ◆ERR: fault indicator lamp
- ♦F / R: Forward and Reverse indicator lamp
- ◆L / R: Communication control indicator lamp
- ◆RUN: Running indicator lamp



Key symbol	Name	Function declaration
PRG	Programming	Menu enters or exits, with
PRG	key	parameter modification
INT	Determine	Enter the menu and confirm the
ENT	the key	parameter setting
	Upper key	Increment of data or function codes
T	Down key	Diminishing data or function codes
DISP	Shift key	Select the parameter modifier bit
DISF	SHIII Key	and the display contents
RUN	Run the key	Start the inverter under the
ROIN	Kun the key	keyboard operation mode
STOP	Stop / Reset	Stop / reset operation,
SIUP	key	Stop / Teset Operation,
JOG	Jog key	Limited to the PO8.01 function code

Set the parameter method:

- 1. Press the **PRG** button to display the P 0.00,
- 2. The ▲ ▼ and **DISP** keys select the parameter number to modify, and the ENTER key enters the parameter,
- 3. ▲ ▼ and **DISP** keys modify parameter values, **ENTER** key save parameters,
- 4. If you need to modify other parameters, repeat 2, 3, steps, such as modification completion,
 Return to the frequency interface using the **PRG** key.

Chapter 3 Summary table of functional parameters:

P00, Moi	nitoring group		
	running frequency	$0.00 \sim 320.00$ Hz (P01.22=2)	_
P00.01	Set the Frequency	$0.0 \sim 3200.0$ Hz (P01.22=1)	_
P00.02		$0.0 m V \sim 3000.0 m V$	-
P00.03		$0V \sim 1140V$	-
P00.04	Output Current (A)	$0.00 \mathrm{A} \sim 655.35 \mathrm{A}$	-
P00.05		$0 \sim 32767$	-
P00.06	Output torque (%)	-200.0% ∼ 200.0%	-
P00.07	DI input state	$0 \sim 32767$	-
P00.08	DO output state	$0 \sim 1023$	-
P00.09	All voltage (V)	0.01V	-
P00.10	AI2 Voltage (V) or current (mA)	$0.00 m V \sim 10.57 m V \ 0.00 m mA \sim 20.00 m mA$	-
P00.12	count value	$0 \sim 65535$	-
P00.13	Length value	$0 \sim 65535$	-
P00.14	Load speed display	$0 \sim 65535$	-
P00.15	PID setting	$0 \sim 65535$	_
P00.16	PID feedback	$0 \sim 65535$	_
P00.17	PLC stage	$0 \sim 65535$	-
P00.18	Pulse input frequency	0 ~ 100kHz	-
P00.19	Feedback speed (Hz)	-320.00 Hz ~ 320.00 Hz -3200.0 Hz ~ 3200.0 Hz	-
P00.20	Runtime Remaining	$0.0\sim6500.0\mathrm{Min}$	-
P00.21	All Voltage before correction	$0.000 V \sim 10.570 V$	-
P00.22	AI2 Voltage/Current before correction	$0.000 V \sim 10.570 V$ $0.000 mA \sim 20.000 mA$	-
P00.24	linear speed	$0\sim65535$ m/Min	_
P00.25	Current power time	$0\sim6500{ m Min}$	_
P00.26	Current running time	$0.0\sim6500.0\mathrm{Min}$	-
P00.28	Communication setting	-100.00% ~ 100.00%	_
P00.30	Frequency X Display	$0.00 { m Hz} \sim 500.00 { m Hz}$	-
P00.31	Frequency Y Display	$0.00 { m Hz} \sim 500.00 { m Hz}$	-
P00.32	View any memory address value	$0 \sim 65535$	_
P00.35	Target torque, (%)	0.0° ~ 359.9°	-
P00.37	Power factor Angle		-
P00.39	Target voltage of VF separating	0V ~ Motor rated voltage	-
P00.40	Output voltage of VF separating	0V $^{\sim}$ Motor rated voltage	-

P00.41	DI input status display	-	_
P00.42	DO input status display	-	1
P00.43	DI function status display 1	(function 01. function 40)-	-
P00.44	DI function status visual display 2	(Function 41. Function 80)-	-
P00-45	fault message	_	-
P00-59	Set the frequency of (%)	-100.00% ~ 100.00%	1
P00-60	Running frequency (%)	-100.00% ~ 100.00%	_
P00-61	Inverter state	$0 \sim 65535$	_

 \bigstar —modifiable parameter under any condition

☆—not modifiable parameter under run status

•—the actual detected parameter, not modifiable

FC	name	Set range	Factory value	mo dify
	1	P01 Basic/functional Group		
P01.00	G/P type	1: Type G (constant torque load model) 2: Type P (fan and water pump model)	1	☆
P01.01	1. Motor control mode	0: Speed Sensorless Vector Control 2: V/F control model	2	*
P01.02	Operation command channel	0: Operation panel run command channel ("L/R" lights off) 1: Terminal Run channel ("L/R" lights on) 2: Communication command channel ("L/R" lights flashing)	0	☆
P01.03	Main frequency source X	 0: Digital set (preset frequency P01.08, keypad ▲/▼ key,power loss) 1: Digital set (preset frequency P01.08, keypad ▲/▼ key,Power drop memory) 2: All analog set (0-10V); 3: Al2 analog set (0-10V or 20mA); 4: Panel Potentiometer; 5: Pulse set (0~50KHZ DI5); 6: Multistage speed run set 7: Simple PLC set; 8: PID Control set; 9: Communication set. 	4	*
P01.04	Secondary frequency source Y	Same as P01.03 (Main frequency source X) set	0	*

P01.05	Limit selection of Y when frequency superposition	0: Compared to the 【P01.10】 Maximum frequency 1: Relative to the frequency source X	0	☆
P01.06	Limit of Y when frequency superposition	$0\% \sim 150\%$	100%	☆
P01.07	Frequency source	Single digit: Frequency source selection 0: Main frequency source X 1: Main and Secondary operation results (operation relationship is determined by Ten digits) 2: Main frequency X and Secondary frequency Y switch 3: Switch between main frequency X and Main and Secondary operation results 4: The frequency Y switches with Main and Secondary operation results Ten digits: Frequency operation relationship of X and Y 0: X + Y 1: X - Y 2: Maximum of the Two, 3: Minimum of the Two.	00	
P01.08	Preposition frequency	0.00Hz ~ Maximum frequency 【P01.10】	50.00 Hz	☆
P01.09	Running direction	0: Consistent direction, 1: Opposite direction	0	☆
P01.10	Maximum output frequency	Vector: 50.00Hz ~ 500.00Hz V/F: 50.00Hz ~ 2000.00Hz	50.00 Hz	*
P01.11	Upper limit frequency source	0: 【P01.12】 Set up 1: AI1 Set up 2: AI2 Set up 3: AI3 Set up 4: Pulse set (0~50KHZ DI5); 5: Communication Setup	0	*
P01.12	Upper limiting frequency	【P01.14】 ∼ 【P01.10】	50.00 Hz	☆
P01.13	Upper limit frequency bias	0.00Hz ~ 【P01.10】	0.00Hz	☆
P01.14	Lower limit frequency	0.00Hz ∼ 【P01.12】	0.00Hz	☆
P01.15	Carrier frequency	0.5kHz ~ 16.0kHz	For Model	☆
P01.16	Carrier frequency Adjust with temperature	0: No,1: Yes	1	☆
P01.17	Acceleration time 1	0.00s ~ 650.00s (P01.19=2)		☆
P01.18	Deceleration time 1	$0.0s \sim 6500.0s \text{ (P01.19=1)}$ $0s \sim 65000s \text{ (P01.19=0)}$ Reference frequency \P P01.25	For Model	☆
P01.19	Time unit of Acceleration and deceleration time	0: 1 seconds 1: 0.1 seconds 2: 0.01 seconds	1	☆
P01.21	Bias frequency of frequency Y when superposition	$0.00 { m Hz} \sim { m Maximum}$ output frequency 【P01.10】	0.00Hz	☆

P01.22	Resolution of Frequency	Resolution of all frequency commands.	2	*
P01.23	Power down memory for Digital Frequency setting	0: No memory 1: Memory	0	☆
P01.24	Motor parameter group selection	0: Motor parameter group 1, 1: Motor parameter group 2.	0	*
P01.25	Reference frequency of Acceleration and deceleration time	0: Maximum frequency 【P01.10】 1: Setting frequency 2:100Hz	0	*
P01.26	Runtime frequency instruction UP/DOWN benchmark		0	*
P01.27	Command source bundled frequency source	frequency source selection 0: No binding 1: Digital set 2: All 3: Al2 4: Al3 5: Pulse set (0~50KHZ DI5); 6: Multi segment speed; 7: Simple PLC 8:PID 9: Communication Set Ten digit Terminal command binding frequency source selection 100 digit communication command binding frequency source selection Thougand digit Automatically run the binding frequency source selection	0000	☆
	PO2 Asur	chronous Motor parameter group 1	ı	
P02.00	Motor type	0: Ordinary asynchronous motor, 1: Variable frequency asynchronous motor	0	*
P02.01	Rated power of motor	0.1 kW ~ 400.0 kW		*
P02.02	Rated voltage of Motor	$1V \sim 2000V$	Accordin	*
P02.03	Rated current of Motor	$0.01A \sim 655.35A$ (Inverter power <= $55kW$) $0.1A \sim 6553.5A$ (Inverter power> $55kW$)	g to the Model Of the	*
P02.04	Rated frequency of motor	0.01Hz~ Maximum output frequency 【P01.10】	Inverter	*
P02.05	Rated speed of motor	lrpm \sim 65535rpm		*
P02.06	Stator resistance of motor	$0.001\Omega \sim 65.535\Omega$ (Inverter power <=55kW) $0.0001\Omega \sim 6.5535\Omega$ (Inverter power> 55kW)		*
P02.07	Rotor resistance of Motor	$0.001\Omega \sim 65.535\Omega$ (Inverter power <=55kW) $0.0001\Omega \sim 6.5535\Omega$ (Inverter power> 55kW)	Tuning	*
P02.08	Leak resistance of Motor	$0.01 \text{mH} \sim 655.35 \text{mH}$ (Inverter power <= 55kW) $0.001 \text{Mh} \sim 65.535 \text{mH}$ (Inverter power> 55kW)	Paramete r	*
P02.09	Mutual resistance of Motor	$0.1 \text{mH} \sim 6553.5 \text{mH}$ (Inverter power <= 55kW) $0.01 \text{mH} \sim 655.35 \text{mH}$ (Inverter power> 55kW)		*

P02.10	No-load current of the Motor	$0.01A \sim P02.03$ (Inverter power <= $55kW$) $0.1A \sim P02.03$ (Inverter power > $55kW$)		*
P02.37	Tuning selection	0: no-operation 1: Tuning at Motor stationary 1 2: Motor dynamic tuning 3: Tuning at Motor completely stationary 2	0	*
	P03 Vector	control parameters of motor group1		
P03.00	Speed loop proportional 1	$1 \sim 100$	30	☆
P03.01	Speed loop integration time 1	$0.01s \sim 10.00s$	0.50s	☆
P03.02	Switch frequency 1	0.00 ∼ 【P03.05】	5.00Hz	☆
P03.03	Speed loop proportional 2	$1 \sim 100$	20	☆
P03.04	Speed loop integration time 2	$0.01s \sim 10.00s$	1.00s	☆
P03.05	Switch frequency 2	P03.02 ~Maximum output frequency [P01.10]	10.00Hz	☆
P03.06	Vector control of the shift gain	$50\% \sim 200\%$	100%	☆
P03.07	SVC torque filtering time constants	$0.000s \sim 0.100s$	0.050s	☆
P03.09	Torque upper limit source under speed control mode	 0: P03.10 setting 1: AI1; 2: AI2; 3: AI3; 4: Pulse set (DI5); 5: Communication Setting; 6: MIN (AI1, AI2) 7: MAX (AI1, AI2) 	0	☆
P03.10	Upper torque limit under speed control mode	$0.0\% \sim 200.0\%$	150.0%	☆
P03.13	Proportional gain of excitation regulation	$0 \sim 60000$	2000	☆
P03.14	Integral gain of excitation regulation	0 ~ 60000	1300	☆
P03.15	Proportional gain of torque regulation	0 ~ 60000	2000	☆
P03.16	Integral gain of torque regulation	0 ~ 60000	1300	☆
		04 V/F Control Parameters		
P04.00	VF curve setting	0: linear curve V/F 1: Multipoint curve V/F 2: Decreasing torque curve 1 (Square curve) 3: Decreasing torque curve 2 (1.2 power) 4: Decreasing torque curve 2 (1.4 power) 6: Decreasing torque curve 2 (1.6 power) 8: Decreasing torque curve 2 (1.8 power) 10: VF completely separation mode 11: VF semi-separation mode	0	*

P04.01	Torque boost setting	0.0% (Automatic lifting torque); 0.1%~30.0%	By Model	☆
P04.02	Torque boost cutoff point	0.00Hz ~Maximum output frequency 【P01.10】	50.00Hz	*
P04.03	Multi-point V/F Freq. 1	0.00Hz ~ 【P04.05】	0.00Hz	*
P04.04	Multi-point V/F Voltage 1	$0.07 \sim 100.07$	0.0%	*
P04.05	Multi-point V/F Freq. 2	【P04.03】 ~ 【P04.07】	0.00Hz	*
P04.06	Multi-point V/F Voltage 2	$0.07 \sim 100.07$	0.0%	*
P04.07	Multi-point V/F Freq. 3	【P04.05】 ~ Motor Rated frequency 【P02.04】	0.00Hz	*
P04.08	Multi-point V/F Voltage 3	$0.0\% \sim 100.0\%$	0.0%	*
P04.09	V/F control Slip frequency compensation	$0.07 \sim 200.07$	0.0%	☆
P04.10	V/F Over excitation gain	$0 \sim 200$	64	☆
P04.11	Oscillation suppression gain for V/F	0 ~ 100	By Model	☆
P04.13	Voltage source by VF separated	0: Digital Settings 【P04.14】 1: AI1 2: AI2 3: AI3 4: Pulse Setting (DI5) 5: Multiple instruction 6: Simple PLC 7: The PID 8: communication Setting Note: 100.0%, corresponding to the motor rated voltage	0	☆
P04.14	Voltage for VF separation	$0 ext{V} \sim ext{Motor rated voltage}$	0V	☆
P04.15	Voltage rise time of VF separation	$0.0s \sim 1000.0s$ Note: Time when 0V rises to rated voltage of motor.	0.0s	☆
P04.16	Voltage dorp time of VF separation	$0.0s \sim 1000.0s$ Note: Time when Rated voltage of motor dorp to 0V	0.0s	☆
P04.17	<u> </u>	0: The frequency and voltage drop to 0 separately; 1: Frequency drops after the Voltage drop to 0	0	☆
P04.18	Over-current stall action current	$50\% \sim 200\%$	150%	*
P04.19	Suppression of Over current stall	0: Disable, 1: Enable.	1	*
P04.20	Suppression's gain of Over current stall	$0 \sim 100$	20	☆
P04.21	Compensation coefficient of action Over current stall	$50\% \sim 200\%$	50%	*
P04.22	Over-voltage stall action voltage	650.0V ~ 800.0V	760.0V	*
P04.23	Suppression of Over-voltage stall	0: Disable, 1: Enable.	1	*
P04.24	Suppression's Freq. gain of Over-voltage stall	0 ~ 100	30	☆

P04.25	Suppression's Voltage gain of Over-voltage stall	$0 \sim 100$	30	☆
P04.26	Maximum rise frequency limit for Over-voltage stall	$0\sim 50 \mathrm{Hz}$	5Hz	*
	P	05 group, Input Parameters		
P05.00	DII terminal function	0: No function; 1: Forward running(FWD) or Running;	1	*
P05.01	DI2 terminal functional	2:Reverse running (REV) or Forward/Reverse switch 3: three-wire running control 4: forward jog control (FJOG) 5: Reverse jog control (RJOG) 6: Freq. Increase(Terminal UP) 7: Freq. decrease(Terminal DOWN) 8: Free shutdown control 9: External reset signal input(RST) 10: Suspend operation; 11: External fault normally-open (NO) input 12: Multi-speed 1 13: Multi-speed 2	4	*
P05.02	DI3 terminal functional	14: Multi-speed 3 15: Multi-speed 4 16: ACC/DEC time select 1(TT1) 17: ACC/DEC time select 2(TT2) 18: Frequency source switch 19: UP/DOWN Freq. zero clearing (terminal, keyboard) 20: Run command Switch terminal 1 21: VFD ACC/DEC prohibit 22: PID control Pause 23: PLC state reset 24: Pendulum frequency Pause 25: Counter input 26: Counter reset 27: Length count input 28: Length reset 29: Torque control Disable	9	*

P05.03	DI4 terminal functional	30: Pulse Setting (only DI5 can setting, P05.04=30) 31: Reserved; 32: DC braking immediately; 33: External fault input (normally closed, NC) 34: Frequency modification Enables 35: PID input signal reversed; 36: External parking terminal 1 37: Run command Switch terminal 2 38: PID integral Pause; 39: Frequency X switches with the Preset frequency 40: Frequency Y switches with the Preset frequency 41: Motor selection terminal 1 43: The PID Parameters switch 44: User defined fault 1 45: User defined fault 2 46: Speed control / Torque control switch	12	*
P05.04	DI5 terminal function (only DI5 can setting Pulse function, P05.04=30)	47: Emergency stop 48: External parking terminal 2 49: Slow ate DC braking 50: Run time cleared; 51: Two-wire control / Three-wire control switch 52: Reversal Disable;	13	*
P05.10	DI filtering time	$0.000s \sim 1.000s$	0.010s	☆
P05.11	Terminal control Mode	0: Two-wire control mode 1, 1: Two-wire control mode 2, 2: Three-wire control mode 1, 3: Three-wire control mode 2.	0	*
P05.12	Frequency adjusting step size	0.001 Hz/s \sim 65.535Hz/s	1.00Hz/s	☆
P05.13	Min. input of AI curve 1	$0.00 m V \sim P05.15$	0.00V	☆
P05.14	Corresponding value of AI curve I's Min. input	-100.0% ~ +100.0%	0.0%	☆
P05.15	Max. input of AI curve 1	P05.13 ∼ +10.00V	10.00V	☆
P05.16	Corresponding value of AI curve I's Max. input	-100.0% ~ +100.0%	100.0%	☆
P05.17	Al curve 1 filtering time	$0.00s \sim 10.00s$	0.10s	☆
P05.18	AI curve 2's Min. input	$0.00\mathrm{V}\sim\mathrm{P05.20}$	0.00V	☆
P05.19	Corresponding value of AI curve 2's Min. input	$-100.0\% \sim +100.0\%$	0.0%	☆
P05.20	Max. input of AI2	P05.18 ∼ +10.00V	10.00V	☆
P05.21	Corresponding value of AI curve 2's Max. input	-100.0% ~ +100.0%	100.0%	☆
P05.22	Al curve 2 filtering time	$0.00s \sim 10.00s$	0.10s	☆
P05.23	AI curve 3's Min. input	$-10.00 m V \sim P05.25$	-10.00V	☆

P05.24	Corresponding value of AI curve 3's Min. input	-100.0% ∼ +100.0%	0.0%	☆
P05.25	Max. input of AI curve 3	P05.23 ∼ +10.00V	10.00V	☆
P05.26	Corresponding value of AI curve 3's Max. input	-100.0% ~ +100.0%	100.0%	☆
P05.27	AI curve 3 filtering time	$0.00s \sim 10.00s$	0.10s	☆
P05.28	Min. value of Pulse input	$-10.00 \text{V} \sim \text{P05.25}$	0.00V	☆
P05.29	Corresponding value of Pulse's Min. input	-100.07 ~ +100.07	0.0%	☆
P05.30	Max. value of Pulse input	P05.23 ∼ +10.00V	10.00V	☆
P05.31	Corresponding value of Pulse's Max. input	-100.0% ∼ +100.0%	100.0%	☆
P05.32	Pulse filtering time	$0.00s \sim 10.00s$	0.10s	☆
P05.33	AI curve selection The AI is below the minimum input setting selection	Single bit: All curve selection 1: Al curve 1 (2 PM, see P05.13 ~ P05.16.) 2: Al curve 2 (2 PM, see P05.18 ~ P05.21.) 3: Al curve 3 (2 PM, see P05.23 ~ P05.26.) 4: Al curve 4 (4 PM, see P24.00 ~ P24.07) 5: Al curve 4 (4 PM, see P24.08 ~ P24.15) Ten bit: Al2 curve selection (the same as Single bit 1~5) Hundred bit: Al3 curve selection (the same as above) Single bit: Al1 below Min. input setting 0: Corresponding value of Min. input 1: 0.0% Ten bit: Al2 below Min. input setting (the same as Single bit 1~2) Hundred bit: Al3 below Min. input setting	321	☆
		(the same as above)		<u> </u>
P05.35	DII delay time	0.0s ~ 3600.0s	0.0s	*
P05.36	DI2 delay time	0.0s ∼ 3600.0s	0.0s	*
P05.37	DI3 delay time	0.0s ~ 3600.0s	0.0s	*
P05.38	DI1-DI5 terminal valid mode selection	0: High level effective, 1: Low level effective Single Bit: DI1; Ten Bit: DI2; Hundreds Bit: DI3; Thousand Bit: DI4, Ten thousand Bit: DI5	00000	*
P05.39	DI6-D17 terminal valid mode selection	0: High level effective, 1: Low level effective Single Bit: DI6, Ten Bit: DI7	00000	*

	PC	6 group, Output Parameters		
P06.01	DO1 output function selection	0: No output	0	☆
		1: Running indicator;		
	2: Fault output (for free shutdown fault)			
		3: Freq. level detection signal 1(P14T1)		
		4: Frequency arrival indicator(FAR)		
		5: VFD zero-speed running(When running)		
		6: Motor overload Early-warning		
		7: Inverter overload Early-warning		
		8: The Set Count arrives		
		9: The specified count is reached		
		10: Length is reached		
		11: The PLC cycle is completed		
		12: Accumulated running time arrives		
		13: Frequency limiting		
		14: Torque limiting		
		15: Ready to run		
		16: AII>AI2		
		17: Output freq. reaches Upper limit		
		18: Output freq. reaches Lower limit(When running)		
		19: Under pressure state output		
		20: Communication setting		
	Control Board Relay	21: Location is complete (reserved)		
P06.02	(TA-TB-TC)	22: Location proximity (reserved)	2	☆
	Function Selection	23: Zero-speed running 2 (also output when shutdown)		
		24: Accumulated power-on time arrives		
		25: Freq. level detection signal 2(P14T2)		
		26: Output freq. 1 reached		
		27: Output freq. 2 reached		
		28: Output Current 1 reached		
		29: Output Current 2 reached		
		30: Regularly reached		
		31: Input signal All overrun		
		32: Load dropping		
		33: VFD reverse running		
		34: Zero-current state		
		35: The Power module temperature arrives		
		36: Output current out of limit		
		37:Output freq. reaches Lower limit(shutdown also		
		output)		
		38: Fault output (all faults)		
		39: Motor overheating Early-warning		
		40: This running time arrives		
		41: Fault output (for free shutdown fault and no under		
		pressure output)		

P06.07	AO1 output function selection	0: Operation freq., 2: Output current, 3: Output torque, 4: Output power, 5: Output voltage, 6: Input pulse freq. 7: AII 8: AI2 9: AI3	0	☆
P06.08	AO2 output function selection	10: Length 11: Count value 12: Communication setting, 13: Motor speed 14: Output Current. (100.0% Corresponding to 1000.0A) 15: Output voltage (100.0% Corresponding to 1000.0V) 16: Motor output torque (Percentage of actual value relative to motor rating) 17: VFD output torque (Percentage of actual value relative to VFD rating)	1	☆
P06.10	AO1 zero-bias coefficient	-100.0% ∼ +100.0%	0.0%	☆
P06.11	AO1 gain	$-10.00 \sim +10.00$	1.00	☆
P06.12	AO2 zero-bias coefficient	-100.0% ∼ +100.0%	0.0%	☆
P06.13	AO2 gain	$-10.00 \sim +10.00$	1.00	☆
P06.17	DO output delay time	$0.0s \sim 3600.0s$	0.0s	☆
P06.18	RELAY output delay time	$0.0s \sim 3600.0s$	0.0s	☆
P06.19	RELAY2 output delay time	$0.0s \sim 3600.0s$	0.0s	☆
P06.22	DO output valid status selection	0: Positive logic, 1: Anti-logic Single Bit: DO Ten bit: RELAY1 Hundred Bit: RELAY2	00000	☆
	P07 group	, Start and Stop control Parameters		•
P07.00	Starting mode	0: Direct start 1: Start with speed tracking 2: DC braking + start at start frequency	0	☆
P07.01	Speed tracking method	0: Start with the shutdown frequency 1: Start with the working frequency 2: Start at the maximum frequency	0	*
P07.02	Speed of Speed tracking	$1 \sim 100$	20	☆
P07.03	Start frequency	0.00 Hz ~ 10.00 Hz	0.00Hz	☆
P07.04	Start-frequency hold time	$0.0s \sim 100.0s$	0.0s	*
P07.05	DC brake current at startup	0% ~100%	0%	*
P07.06	DC brake time at startup	$0.0s \sim 100.0s$	0.0s	*
P07.07	Accelerating and Decelerating mode	0: linear Acc/Dec mode 1: S curve Acc/Dec mode A 2: S curve Acc/Dec mode B	0	*
P07.08	Time ratio of Start segment in S curve	0.0% ~ (100.0%-P07.09)	30.0%	*
P07.09	Time ratio of Start segment in S curve	0.0% ~ (100.0%-P07.08)	30.0%	*

P07.10	Stop mode	0: Decelerate to stop 1: Coast to stop	0	☆
P07.11	Frequency threshold of DC brake	0.00Hz ~ Maximum freq. 【P01.10】	0.00Hz	☆
P07.12	DC brake delay time	$0.0s \sim 100.0s$	0.0s	☆
P07.13	DC brake current	$0\% \sim 100\%$	0%	☆
P07.14	DC brake time at stop	$0.0s \sim 100.0s$	0.0s	☆
P07.15	DC Brake utilization rate	$0\% \sim 100\%$	100%	☆
P07.18	Speed tracking current	$30\% \sim 200\%$		*
	-	Keyboards and Display Parameters		
P08.01	M key function	0: The M key is invalid 1: Switch between Remote Control (Terminal or Communication control) and Operation Panel Control, when 【P01.02】 =1 or 2 2: FWD/REV switch 3: FJOG (Forward jog control)	0	*
P08.02	STOP/RESET key function	4: RJOG (Reverse jog control) 0: The STOP/RES key Only valid in panel control mode	1	☆
P08.03	LED displays parameter 1in Operation status	1: The STOP/RES key Always valid 0000 ~ FFFF Bit00: Running Frequency 1 (Hz) Bit01: Setting 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: All voltage (V) Bit10: Al2 voltage (V) Bit11: Al3 voltage (V) Bit12: Count value Bit13: Length value Bit14: Load speed display Bit15: PID settings	1F	☆
P08.04	LED displays parameter 2in Operation status	0000 ~ FFFF Bit00: PID feedback Bit01: PLC stage Bit02: PULSE Input frequency (kHz) Bit03: Running Frequency 2 (Hz) Bit04: Remaining runtime Bit05:AI1-corrected front voltage (V) Bit06:AI2-corrected front voltage (V) Bit07:AI3-corrected front voltage (V) Bit08: Line speed	0	☆

	Bit09: Current Power Time (Hour)		
	Bit10: Current Runtime (Min)		
	Bit11:PULSE Input frequency (Hz)		
	Bit12: Communication Setting Value		
	Bit13: Encoder feedback speed (Hz)		
	Bit 14: Main Frequency X Display (Hz)		
	Bit15: Secondary frequency Y Display (Hz)		
	0000 ∼ FFFF		
	Bit00: Set Frequency (Hz)		
	Bit01: Bus Voltage (V)		
	Bit02: DI input status		
	Bit03: DO output status		
	Bit04: All voltage (V)		
LED displays parameter in	Bit05: AI2 voltage (V)	33	☆
Stop status	Bit06: AI3 voltage (V)		
	Bit07: Count value		
	Bit08: Length value		
	Bit09: PLC stage		
	Bit10: Load speed		
	Bit11: PID settings		
	Bit12: PULSE Input frequency (kHz)		
Load speed display factor	$0.0001 \sim 6.5000$	1.0000	☆
Power module temperature	0.0°C ∼ 100.0°C		•
Product number	-	-	•
Cumulative running time	0h \sim 65535h	-	•
P	99 group, auxiliary function	1	1
Jog frequency	0.00Hz ~ Maximum freq. 【P01.10】	2.00Hz	☆
Jog Acc time		20.0s	$\stackrel{\wedge}{\bowtie}$
Jog Dec time	$0.0s \sim 6500.0s$	20.0s	☆
Acceleration time 2	Recommended time:		$\stackrel{\wedge}{\simeq}$
Deceleration time 2	$0.4 \sim 4.0 \text{KW}$ 7.5S		$\stackrel{\wedge}{\simeq}$
Acceleration time 3	$5.5 \sim 30.0 \text{KW}$ 15.0S	15.0	$\stackrel{\wedge}{\simeq}$
Deceleration time 3	97.0 a 199.0VW 40.0C	15.0	\Rightarrow
Deceleration time 5	37.0 ~ 132.0K W 40.0S		\bowtie
Acceleration time 4	160.0~ 630.0KW 60.0S		☆
Acceleration time 4		0.00Hz	☆
Acceleration time 4 Deceleration time 4		0.00Hz 0.00Hz	☆
Acceleration time 4 Deceleration time 4 Hopping freq. 1	160.0~ 630.0KW 60.0S		☆☆☆
Acceleration time 4 Deceleration time 4 Hopping freq. 1 Hopping freq. 2 Hopping freq. range	160.0~ 630.0KW 60.0S	0.00Hz	☆ ☆ ☆ ☆
Acceleration time 4 Deceleration time 4 Hopping freq. 1 Hopping freq. 2 Hopping freq. range	160.0~ 630.0KW 60.0S 0.00Hz ~ Maximum freq. [P01.10]	0.00Hz 0.01Hz	☆☆☆☆☆
Acceleration time 4 Deceleration time 4 Hopping freq. 1 Hopping freq. 2 Hopping freq. range Positive and Reverse dead time	$160.0 \sim 630.0 { m KW} \ 60.0 { m S}$ $0.00 { m Hz} \ ^{\sim} { m Maximum freq.} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	0.00Hz 0.01Hz 0.0s 0	☆ ☆ ☆ ☆ ☆
Acceleration time 4 Deceleration time 4 Hopping freq. 1 Hopping freq. 2 Hopping freq. range Positive and Reverse dead time Reverse frequency permission	160.0~ 630.0KW 60.0S 0.00Hz ~ Maximum freq. 【P01.10】 0.0s ~ 3000.0s 0: Allowed; 1: Prohibit	0.00Hz 0.01Hz 0.0s	 ☆ ☆ ☆ ☆ ☆ ☆
	Load speed display factor Power module temperature Product number Cumulative running time Jog frequency Jog Acc time Jog Dec time Acceleration time 2 Deceleration time 2 Acceleration time 3	Bit10: Current Runtime (Min) Bit11:PULSE Input frequency (Hz) Bit12: Communication Setting Value Bit13: Encoder feedback speed (Hz) Bit14: Main Frequency X Display (Hz) Bit15: Secondary frequency Y Display (Hz) 0000 ~ FFFF Bit00: Set Frequency (Hz) Bit01: Bus Voltage (V) Bit02: DI input status Bit03: DO output status Bit04: All voltage (V) Bit05: Al2 voltage (V) Bit06: Al3 voltage (V) Bit07: Count value Bit09: PLC stage Bit10: Length value Bit09: PLC stage Bit10: Load speed Bit11: PID settings Bit12: PULSE Input frequency (kHz) Load speed display factor Power module temperature 0.0°C ~ 100.0°C Product number - Cumulative running time 0.0°C ~ 6500.0°C POS group, euriliary function Jog Acc time Jog Dec time 0.0s ~ 6500.0s Recommended time: 0.4 ~ 4.0KW 7.5S 5.5 ~ 30.0KW 15.0S	$Bit 10: Current Runtime (Min) \\ Bit 11: PULSE Input frequency (Hz) \\ Bit 12: Communication Setting Value \\ Bit 13: Encoder feedback speed (Hz) \\ Bit 14: Main Frequency X Display (Hz) \\ Bit 15: Secondary frequency Y Display (Hz) \\ Bit 10: Double Set Frequency (Hz) \\ Bit 01: Bus Voltage (V) \\ Bit 02: DI input status \\ Bit 03: DO output status \\ Bit 04: Al1 voltage (V) \\ Bit 05: Al2 voltage (V) \\ Bit 06: Al3 voltage (V) \\ Bit 07: Count value \\ Bit 09: PLC stage \\ Bit 10: Load speed \\ Bit 11: PID settings \\ Bit 12: PULSE Input frequency (kHz) \\ Load speed display factor 0.0001 \sim 6.5000 \qquad 1.0000 \\ Power module temperature 0.0^{\circ}C \sim 100.0^{\circ}C \qquad - \\ Product number \qquad - \\ Cumulative running time \qquad 0h \sim 65535h \qquad - \\ PO9 group, surflesty function \\ Jog Acc time & 0.08 \sim 6500.0s & 20.0s \\ Acceleration time 2 & Recommended time: \\ Deceleration time 2 & 0.4 \sim 4.0KW 7.5S \\ Acceleration time 3 & 5.5 \sim 30.0KW 15.0S \\ 15.0$

P09.16	Setting cumulative power on arrival time	0h ∼ 65000h	0h	☆
P09.17	Setting cumulative running arrival time	0h ∼ 65000h	0h	☆
P09.18	Start protection	0: Unprotected; 1: protect	0	☆
P09.19	Frequency detection value 1 (P14T1)	0.00Hz ~ Maximum freq. 【P01.10】	50.00 Hz	☆
P09.20	Frequency detection lag value (P14T1)	0.0% ~ 100.0% (P14T1 level)	5.0%	☆
P09.21	Frequency reaches the detected width	0.0% ~ 100.0% (Maximum frequency)	0.0%	☆
P09.22	Frequency hopping function During Acc and Dec.	0: Invalid, 1: valid	0	☆
P09.25	Switching freq. of acceleration time 1 and time 2	0.00Hz ~ Maximum freq. 【P01.10】	0.00Hz	☆
P09.26	Switching freq. of deceleration time 1 and time 2	0.00Hz ~ Maximum freq. 【P01.10】	0.00Hz	☆
P09.27	Terminal Jog priority	0: Invalid, 1: valid	0	☆
P09.28	Frequency detection value 2 (P14T2)	0.00Hz ~ Maximum frequency	50.00 Hz	☆
P09.29	Frequency detection lag value (P14T2)	0.0% ~ 100.0% (P14T2 level)	5.0%	☆
P09.30	Arbitrary arrival frequency detection value l	0.00Hz ~ Maximum frequency	50.00 Hz	☆
P09.31	Arbitrary arrival frequency detected width 1	0.0% ~ 100.0% (Maximum frequency)	0.0%	☆
P09.32	Arbitrary arrival frequency detection value 2	0.00Hz ~ Maximum frequency	50.00 Hz	☆
P09.33	Arbitrary arrival frequency detected width 2	0.0% ~ 100.0% (Maximum frequency)	0.0%	☆
P09.34	Zero-current detection level	$0.0\% \sim 300.0\%$ 100.0% corresponds to the motor rated current	5.0%	☆
P09.35	Delay time of Current detect	$0.01s \sim 600.00s$	0.10s	☆
P09.36	Current value of output over current	0.0% (Not detect) 0.1% ~ 300.0% (Motor rated current)	200.0%	☆
P09.37	Delay time of Output Over current Detection	$0.00s \sim 600.00s$	0.00s	☆
P09.38	Arbitrary arrival current 1	0.0% $^{\sim}$ 300.0% (Motor rated current)	100.0%	☆
P09.39	Arbitrary arrival current 1 width	0.0% ~ 300.0% (Motor rated current)	0.0%	☆
P09.40	Arbitrary arrival current 2	0.0% $^{\sim}$ 300.0% (Motor rated current)	100.0%	☆
P09.41	Arbitrary arrival current 2 width	0.0% $^{\sim}$ 300.0% (Motor rated current)	0.0%	☆

P09.42	Timer function selection	0: Invalid, 1: valid	0	☆
P09.43	Timer runtime selection	0: P09.44 setting, 1: AI1 2: AI2 3: AI3 Analog input range corresponds to the 【P09.44】	0	☆
P09.44	Timer running time	$0.0 \mathrm{Min} \sim 6500.0 \mathrm{Min}$	0.0Min	☆
P09.45	All input voltage protection value lower limit	0.00V ~ P09.46	3.10V	☆
P09.46	All input voltage protection value upper limit	P09.45 ∼ 10.00V	6.80V	☆
P09.47	Over temp. protection Value	0°C ~ 100 °C	75℃	$\stackrel{\wedge}{\simeq}$
P09.48	Cooling fan control	0: Fan running during VDF running 1: Always running when power on;	0	☆
P09.49	Wake up frequency	Hibernate frequency (P09.51) ~ Maximum freq. [P01.10]	0.00Hz	☆
P09.50	Wake up delay time	$0.0s \sim 6500.0s$	0.0s	☆
P09.51	Sleep frequency	0.00Hz ~ Wake-Up Frequency 【P09.49】	0.00Hz	☆
P09.52	Sleep delay time	$0.0s \sim 6500.0s$	0.0s	☆
P09.53	Arrival time of this operation	$0.0\sim6500.0 \mathrm{Min}$	0.0 M in	☆
P09.54	Correction factor of Output power	$0.00\% \sim 200.0\%$	100.0%	☆
	P10	group Fault and Protection		
P10.00	Motor overload protection	0: Disable, 1: Enable	1	☆
P10.01	Motor overload protection gain	$0.20 \sim 10.00$	1.00	☆
P10.02	Motor overload early-warning factor	50 ~ 100%	80%	☆
P10.07	Short circuit to ground protection when power on	0: Disable, 1: Enable	1	☆
P10.08	Brake unit's starting voltage	650.0V ~ 800.0V	690V	☆
P10.09	Automatic fault reset times	$0 \sim 20$	0	☆
P10.10	DO action selection during automatic fault reset	0: No Action 1: Action	0	☆
P10.11	Interval for Automatic fault reset	0.1s ~ 100.0s	1.0s	☆
	Input phase loss protection/	Single Bit: Input phase loss protection 0: Disable, 1: Enable Ten Bit: Power relay pull in protection	11	☆
P10.12	Power relay pull in protection	0: Disable, 1: Enable		
P10.12	Power relay pull in protection Output phase loss protection		1	☆

P10.15	Second failure type	1: (Reserved) 2: Over-current in Acc process 3: Over-current in Dec process 4: Over-current in constant speed 5: Over-voltage in Acc process 6: Over-voltage in Dec process 7: Over-voltage in constant speed 8: Buffer resistance overload 9: Under-voltage 10: VFD overload 11: Motor overload		•
P10.16	Third (most recent) fault type	12: Input phase loss 13: Output phase loss 14: Power module is overheated 15: External fault 16: Communication exception 17: Power relay is abnormal 18: Abnormal current detection 19: Motor tuning is abnormal 21: Parameter read and write exception 22: Other Hardware abnormal 23: Motor short-circuit to ground 26: Run-time arrival 27: User Custom fault 1 28: User Custom fault 2 29: Power-on time arrives 30: Load drop 31: Runtime PID feedback is lost 40: Fast flow limit timeout 41: Switch the motor during operation 42: Speed deviation is too large 43: Motor over-speed		•
P10.17	Frequency at the third (most recent) failure	_		•
P10.18	Current at the third (most recent) fault	_	_	•
P10.19	Bus voltage at the third (most recent) fault	_	_	•
P10.20	Input terminal status at the third (most recent) failure	_	_	•
P10.21	Output terminal status at the third (most recent) failure	_	_	•
P10.22	The Inverter status at the third (most recent) failure		_	•

	Power-on time for the third			
P10.23	(most recent) failure	_	_	•
P10.24	Run time for the third (most recent) failure	_	_	•
P10.27	Frequency at the second failure	_	ı	•
P10.28	Current at the second failure	_		•
P10.29	Bus voltage at the second fault	_	_	•
P10.30	Input terminal status for the second failure	_	ı	•
P10.31	Output terminal status at the second failure		ı	•
P10.32	The Inverter status at the second failure	_		•
P10.33	Power-on time for the second failure	_	_	•
P10.34	Run time for the second failure	_	_	•
P10.37	Frequency at the first failure	_	_	•
P10.38	Current at the first failure	_	_	•
P10.39	Bus voltage at the first failure	_	_	•
P10.40	Input terminal status at the first failure	_	_	•
P10.41	Output terminal status at the first failure	_	-	•
P10.42	The Inverter status at the first failure	_	_	•
P10.43	Power-on time for the first failure	_	_	•
P10.44	Run time for the first failure	_		•
P10.47	Fault protection action selection 1	Single Bit: Motor overload (Err11) Ten Bit: Input phase loss, (Err12) Hundred Bit: Output phase loss, (Err13) Thousand Bit: External fault (Err15) Ten thousand Bit: Communication exception, (Err16) 0: Coast to stop; 1: Stop by Stop mode 【P07.10】 2: Keep running;	00000	☆
P10.48	Fault protection action selection 2	Single Bit/Hundred Bit/Thousand Bit: (Reserved) Ten Bit: Parameter read and write exception (Err21) Ten thousand Bit: Run-time arrival (Err26) 0: Coast to stop; 1: Stop by Stop mode 【P07.10】	00000	☆

P10.49	Fault protection action selection 3	Single Bit: User Custom fault 1 (Err27) Ten Bit:: User Custom fault 2 (Err28) Hundred Bit: Power-on time arrives (Err29) Thousand Bit: Load drop (Err30) 0: Coast to stop; 1: Stop by Stop mode 【P07.10】 2: Jump to 7% of the Rated freq. of the Motor and keep running, Operate return to Set freq. when load recovery Ten thousand Bit: PID feedback loss (Err31) 0: Coast to stop; 1: Stop by Stop mode 【P07.10】 2: Keep running;	00000	☆
P10.50	Fault protection action selection 4	Single Bit: Speed deviation too large (Err42) Ten Bit: Motor over-speed (Err43) Hundred Bit: (Reserved) Thousand Bit: Speed feedback error (Err52) 0: Coast to stop; 1: Stop by Stop mode 【P07.10】 2: Keep running;	00000	☆
P10.54	Keep running freq. selection when failure	0: The current frequency1: The setting frequency2: Run at upper limit frequency3: Run at lower limit frequency4: Run at abnormal reserve frequency	0	☆
P10.55	Abnormal reserve frequency	0.07~100.07 (100.07 corresponds to Max freq [P01.10]	100.0%	☆
P10.59	Instant power non-stop	0: Invalid 1: Reduce the speed; 2: Deceleration stop	0	☆
P10.60	The Pause judgment voltage of Instant power non-stop	$80.0\% \sim 100.0\%$ (Standard bus voltage)	90.0%	☆
P10.61	Voltage recovery Judgment time of Instant power non-stop	$0.00s \sim 100.00s$	0.50s	☆
P10.62	The judgment voltage of Instant power non-stop	60.0% $^{\sim}$ 100.0% (Standard bus voltage)	80.0%	☆
P10.71	Gain of Instant power non-stop	0 ~ 100	40	☆
P10.72	Integral coefficient of Instant power non-stop	$0 \sim 100$	30	☆
P10.73	Deceleration time of Instant power non-stop	$0 \sim 300.0s$	20.0s	*
P10.63	Load drop protection selection	0: Invalid, 1: valid	0	☆
P10.64	Load drop detection level	$0.0 \sim 100.0\%$	10.0%	☆
P10.65	Load drop detection time	$0.0 \sim 60.0$ s	1.0s	☆
P10.67	Over-speed detection value	0.0% ~ 50.0% (Max freq 【P01.10】)	20.0%	☆
P10.68	Over-speed detection time	0.0s: Non-detectable 0.1 \sim 60.0s	1.0s	☆

P10.69	The detection value for Speed deviation too large	0.0% ~ 50.0% (Max freq 【P01.10】)	20.0%	☆
P10.70	The detection time for Speed deviation too large	0.0s: 0.1 ~ 60.0s	5.0s	☆
		P11 group PID function		
P11.00	PID input channel	0: P11.01 setting 1: AI1 2: AI2 3: AI3 4: Pulse Setting (DI5) 5: Communication Setting 6: Multistage speed 7: Keyboard encoder settings	0	☆
P11.01	Digital reference input setting	$0.0 \sim 10.00$	3.00	☆
P11.02	PID feedback channel	0: AII 1: AI2 2: AI3 3: AII-AI2 4: Pulse Setting (DI5) 5: Communication Setting 6: AII+AI2 7: MAX (AII , AI2) 8: MIN (AII , AI2)	0	*
P11.03	PID polarity	0: Positive direction, 1: Negative direction	0	☆
P11.04	Range of PID feedback	0 ∼ 100.00KG	10.00	☆
P11.05	Proportional gain KP02	$0.0 \sim 100.0$	20.0	☆
P11.06	Integration time Til	$0.01s \sim 10.00s$	2.00s	☆
P11.07	Derivative time Td1	$0.000s \sim 10.000s$	0.000s	☆
P11.08	PID reversal cutoff freq	0.00 ~ Maximum frequency	2.00Hz	☆
P11.09	The limit of PID deviation	$0.07 \sim 100.07$	1.0%	☆
P11.10	Differential limiter of PID	$0.00\% \sim 100.00\%$	0.10%	☆
P11.11	PID Input signal change time	$0.00 \sim 650.00s$	0.00s	☆
P11.12	PID feedback filtering time	$0.00 \sim 60.00$ s	0.00s	☆
P11.13	The PID output filtering time	$0.00 \sim 60.00$ s	0.00s	☆
P11.15	Proportional gain KP03	$0.0 \sim 100.0$	20.0	☆
P11.16	Integration time Ti2	$0.01s \sim 10.00s$	2.00s	☆
P11.17	Derivative time Td2	$0.000s \sim 10.000s$	0.000s	☆
P11.18	The PID parameter switching conditions	No switch Switch via the DI terminal Automatic switch according to the deviation	0	☆
P11.19	The PID parameter switching Deviation 1	0.0% ~ P11.20	20.0%	☆
P11.20	The PID parameter switching Deviation 2	P11.19 ~ 100.0%	80.0%	☆
P11.21	Initial value of PID	$0.07 \sim 100.07$	0.0%	☆
P11.22	Holding time of PID Initial	$0.00 \sim 650.00s$	0.00s	☆
P11.23	Max positive deviation of Two output	$0.00\% \sim 100.00\%$	1.00%	☆

P11.24	Max deviation deviation of Two output	$0.00\% \sim 100.00\%$	1.00%	☆
P11.25	The PID integral property	Single Bit: Integral separation 0: Invalid, 1: valid Ten Bit: when the frequency reaches the limits 0: Continue integral regulation, 1: Stop integral regulation	00	☆
P11.26	PID feedback loss detection values	0.1% ~ 100.0% (0.0%: Not detection)	0.0%	☆
P11.27	PID feedback loss detection time	$0.0s \sim 20.0s$	0.0s	☆
P11.28	The PID shutdown operation	0: Stop without PID operation, 1: Stop with PID operation	0	☆
	P12 group -Swi	ing frequency, Fixed length and Counting		
P12.00	Mode of Swing freq setting	0: Relative to the Central frequency 【P01.07】 1: Relative to the Max freq 【P01.10】	0	☆
P12.01	Range of Swing frequency	$0.0\% \sim 100.0\%$	0.0%	☆
P12.02	The Range of the jump freq	$0.0\% \sim 50.0\%$	0.0%	☆
P12.03	Cycle of Swing frequency	$0.1s \sim 3000.0s$	10.0s	☆
P12.04	Rise time of swing freq 's triangular wave	$0.17 \sim 100.07$	50.0%	☆
P12.05	Setting length	$0\mathrm{m}\sim65535\mathrm{m}$	1000m	☆
P12.06	Actual length	$0 \text{m} \sim 65535 \text{m}$	0m	☆
P12.07	Number of pulses per Meter	$0.1 \sim 6553.5$	100.0	☆
P12.08	Setting Count value	$1 \sim 65535$	1000	☆
P12.09	Specifies Count value	$1 \sim 65535$	1000	$\stackrel{\wedge}{\simeq}$
	P13 gro	up Multistage speed, simple PLC		
P13.00	Multistage speed 0 (MS0)		0.0%	☆
P13.01	Multistage speed 1 (MS1)		0.0%	☆
P13.02	Multistage speed 2 (MS2)		0.0%	☆
P13.03	Multistage speed 3 (MS3)		0.0%	☆
P13.04	Multistage speed 4 (MS4)		0.0%	☆
P13.05	Multistage speed 5 (MS5)		0.0%	☆
P13.06	Multistage speed 6 (MS6)		0.0%	☆
P13.07	Multistage speed 7 (MS7)	-100.0% ~ 100.0% (Max freq 【P01.10】)	0.0%	☆
P13.08	Multistage speed 8 (MS8)		0.0%	☆
P13.09	Multistage speed 9 (MS9)		0.0%	☆
P13.10	Multistage speed 10 (MS10)		0.0%	☆
P13.11	Multistage speed 11 (MS11)		0.0%	☆ .
P13.12	Multistage speed 12 (MS12)		0.0%	☆
P13.13	Multistage speed 13 (MS13)		0.0%	☆
P13.14	Multistage speed 14 (MS14)		0.0%	☆
P13.15	Multistage speed 15 (MS15)		0.0%	☆

		0: End of single operation		
P13.16	Simple PLC operation mode	1: Final value at end of single operation	0	☆
		2: Always cycle		
		Single Bit: when Power drop		
P13.17	PLC running state saving after	Ten Bit: when Stop	00	☆
	power off	0: Not save 1: Saving.		
P13.18	Multistage speed 0 runtime	0.0s (h) ~6553.5s (h)	0.0s (h)	☆
P13.19	Acc/Dec time of MS 0	0~3	0	☆
P13.20	Multistage speed 1 runtime	$0.0s (h) \sim 6553.5s (h)$	0.0s (h)	☆
P13.21	Acc/Dec time of MS 1	$0 \sim 3$	0	☆
P13.22	Multistage speed 2 runtime	$0.0s (h) \sim 6553.5s (h)$	0.0s (h)	☆
P13.23	Acc/Dec time of MS 2	$0 \sim 3$	0	☆
P13.24	Multistage speed 3 runtime	$0.0s (h) \sim 6553.5s (h)$	0.0s (h)	☆
P13.25	Acc/Dec time of MS 3	$0 \sim 3$	0	☆
P13.26	Multistage speed 4 runtime	$0.0s$ (h) $\sim 6553.5s$ (h)	0.0s (h)	☆
P13.27	Acc/Dec time of MS 4	$0 \sim 3$	0	☆
P13.28	Multistage speed 5 runtime	$0.0s$ (h) $\sim 6553.5s$ (h)	0.0s (h)	☆
P13.29	Acc/Dec time of MS 5	$0 \sim 3$	0	☆
P13.30	Multistage speed 6 runtime	0.0s (h) \sim 6553.5s (h)	0.0s (h)	☆
P13.31	Acc/Dec time of MS 6	$0 \sim 3$	0	☆
P13.32	Multistage speed 7 runtime	0.0s (h) \sim 6553.5s (h)	0.0s (h)	☆
P13.33	Acc/Dec time of MS 7	$0\sim3$	0	☆
P13.34	Multistage speed 8 runtime	0.0s (h) \sim 6553.5s (h)	0.0s (h)	☆
P13.35	Acc/Dec time of MS 8	$0 \sim 3$	0	☆
P13.36	Multistage speed 9 runtime	0.0s (h) ~6553.5s (h)	0.0s (h)	☆
P13.37	Acc/Dec time of MS 9	$0 \sim 3$	0	☆
P13.38	Multistage speed 10 runtime	0.0s (h) \sim 6553.5s (h)	0.0s (h)	☆
P13.39	Acc/Dec time of MS 10	$0 \sim 3$	0	☆
P13.40	Multistage speed 11 runtime	0.0s (h) ~6553.5s (h)	0.0s (h)	☆
P13.41	Acc/Dec time of MS 11	$0 \sim 3$	0	☆
P13.42	Multistage speed 12 runtime	0.0s (h) \sim 6553.5s (h)	0.0s (h)	☆
P13.43	Acc/Dec time of MS 12	$0 \sim 3$	0	☆
P13.44	Multistage speed 3 runtime	$0.0s (h) \sim 6553.5s (h)$	0.0s (h)	☆
P13.45	Acc/Dec time of MS 3	$0 \sim 3$	0	☆
P13.46	Multistage speed 14 runtime	$0.0s (h) \sim 6553.5s (h)$	0.0s (h)	☆
P13.47	Acc/Dec time of MS 14	$0 \sim 3$	0	☆
P13.48	Multistage speed 15 runtime	0.0s (h) \sim 6553.5s (h)	0.0s (h)	☆
P13.49	Acc/Dec time of MS 15	$0 \sim 3$	0	☆
P13.50	Unit of Multistage speed's	0: s (seconds)	0	☆
1 10.00	Acc/Dec time	1: h (hours)		

P13.51	Signal source of Multistage speed 0 (MS0)	0: Parameter 【P13.00】 1: AI1	0	☆
	P14 group	RS485 Communication parameters		
P14.00	Baud rate setting for RS485	Single Bit: MODBUS 0: 300BPS	5	☆
P14.01	MODBUS Data format	0: No check (8.N-2)	0	☆
P14.02	Local address	0: broadcast address 1~247: (MODBUS)	1	☆
P14.03	MODBUS Response delay	$0\sim 20\mathrm{ms}$	2	☆
P14.04	Timeout time of RS485	0.0: Invalid 0.1 ~ 60.0s	0.0	☆
P14.05	MODBUS Protocol selection	0: Non-standard MODBUS protocol 1: Standard MODBUS protocol	1	☆
P14.06	Current Resolution of 485 read	0: 0.01A 1: 0.1A	0	☆
	P15 group Special p	erameters for constant pressure water supply	•	
P15.00	Simple macro debugging function	0: No function 1: One drive two pumps 2: Water supply in the building community 3: Hotel water supply 4: Fire water supply 5: Booster pump 6: Deep water pump	0	☆
P15.01	Wake up pressure	0~ Sleep pressure 【P15.04】KG(1KG=0.1Mpa)	2.50KG	☆
P15.02	Delay time of Wake up	0.0s~6500.0s	0s	☆
P15.03	Sleep pressure	Wake up pres [P15.01] ~ Pressure Gauge Range(0.1Mpa)	3.50KG	☆
P15.04	Sleep delay time	0.0s~6500.0s	60.0s	☆
P15.05	Pressure proportional linkage	0: Disable; 1: Enable	1	☆
P15.06	Wake-up pressure difference	0~100.0Bar(Kg,0.1Mpa)	0.50KG	☆
P15.07	Sleep pressure difference	0~100.0Bar(Kg)	0.50KG	☆
P15.08	Over-pressure alarm value	0.00°Pressure Gauge Range KG(1KG=0.1Mpa=1Bar)	9.00KG	☆
P15.09	Delay Time of Over-pressure	0-6553.5S	0.0S	☆
	alarm			_
P15.10	Low-pressure alarm value	0.00~Pressure Gauge Range KG(1KG=0.1Mpa=1Bar) The parameter opens the low pressure reach alarm.	0.0KG	☆

P15.12	water Intake start-up pressure	0~Pressure Gauge Range KG Open the water Intake start-stop control via P01.02=3 The water inlet must use the current sensor of the AI2 For the voltage sensor, change the AI2 jumper		☆
P15.13	Inlet shutdown pressure	0°Pressure Gauge Range KG (Bar)		☆
P15.14	Number of auxiliary pumps	0~3	0	☆
P15.15	waiting time of Auxiliary pump turns on	0~1000.0S	60.0S	☆
P15.16	Waiting time for the auxiliary pump switch	0~1000.0S	5.0S	☆
P15.17	RO1 Relay ON frequency setting	0~50HZ When reaches the value, the Relay will ON	50.00	☆
P15.18	RO1 Relay OFF frequency setting	0~50HZ When reaches the value, the Relay will OFF	30.00	☆
P15.19	Signal source of Water level controller	0: Function is not valid 1: AI1	0	☆
P15.20	Sleeping Valve for the Water 1evel Controller	0.0~100.0% The signal is less than this parameter continue [P15.21] time, Sleep and full water warning(ErrH)	25.0%	☆
P15.21	Full water level delay	0~1000.0S 【P15.20】's delay time setting.	6.0S	☆
P15.22	Water empty delay for Water level controller	0~1000.0S In the full water warning(ErrH) state, when Water Isyal controller signal is greater than the P15.20,and continue 6 (P15.22) times, the full water warning is clear and restored to the normal state.		☆
P15.23	Judgment value for Hydraulic probe damage(Water level controller)	restored to the normal state. 0.0% : Invalid function. $0.1 \sim 100.0\%$: when Water Level controller signal is greater than the [P15.23] , show (E.tSF) fault and shut down		☆
P15.24	Water shortage protection function	0: Disable; 1: Enable, and judge by frequency and pressure	0	☆
P15.25	Water shortage fault check value	0.00 ~ Setting value KG (Bar/0.1Mpa) Valid when the P15.19=1, The water shortage is determined when the feedback value is less than this value		☆
P15.26	Water shortage protection detection frequency	value is less than this value $0\sim50.00$ HZ Valid when the P15.19=1 when the operation frequency is greater than or equal to this frequency, and the pressure is lower than or equal to P15.25,Judge water shortage.		☆

	1			
P15.27	Delay time of water shortage protection detection	$0{\sim}6553.5S$ Delay time for water shortage fault alarm Judgement.	10	☆
P15.28	Effective pressure of incoming water	0∼Pressure Gauge Range KG (Bar/0.1Mpa)	3.00	☆
P15.29	Incoming water detection time	0~9999S Time for incoming water detection	20.0S	☆
P15.30	Water leakage and restart deviation amount	0∼Pressure Gauge Range KG (Bar/0.1Mpa)	0	☆
P15.31	Water leakage and then start the return value	0∼Pressure Gauge Range KG (Bar/0.1Mpa)	0	☆
P15.32	Water leakage and then start the return value detection time	0: NO Function 0.1.10.0秒	2.0S	☆
P15.33	Sleep mode	0: Disable 1: Sleep when pressure is greater than sleep pressure; 2: Sleep when running frequency is less than sleep frequency (affected by P15.29) 3: Sleep when pressure is greater than sleep pressure and running frequency is less than sleep frequency.	0	☆
P15.34	Sleep output frequency	0~P01.12	20.0Hz	☆
	P17 gro	up Functional code management		
P17.00	User password	$0 \sim 65535$	0	☆
P17.01	Parameter initialization	0: No operation01: Restore factory parameters, excluding motor parameters02: clear record information	0	*
P17.04	The Function code modifies the properties	0: Modifiable 1: Not modifiable	0	☆
	P18 gro	oup Torque control parameters	•	
P18.00	Speed/Torque control mode	0: Speed control, l: Torque control	0	*
P18.01	Torque setting source selection under torque control mode	0: Digital Settings 1: (P18.03) 1: AI1 2: AI2 3: AI3 4: PLUSE Setting 5: Communication setting 6: MIN (AI1, AI2) 7: MAX (AI1, AI2)	0	*
P18.03	Digital Setting under the torque control mode	-200.0% ∼ 200.0% (P18.01=0)	150.0%	☆
P18.05	The Max forward freq for Torque controls	0.00Hz ∼ Max freq 【P01.10】	50.00Hz	☆
P18.06	The Max reverse freq for Torque controls	0.00Hz ∼ Max freq 【P01.10】	50.00Hz	☆
P18.07	Torque control 's Acc time	$0.00s \sim 65000s$	0.00s	☆
P18.08	Torque control 's Dec time	$0.00s \sim 65000s$	0.00s	☆

	P23 group	Control optimization parameters		
P23.00	Upper limit frequency for DPWM switch	5.00Hz ∼ Max freq 【P01.10】	8.00Hz	☆
P23.01	PWM modulation mode	0: Asynchronous modulation, 1: Synchronous modulation	0	☆
P23.03	Random PWM depth	0: Invalid Random PWM $1\sim 10$: Random depth of PWM carrier frequency	0	☆
P23.04	Fast flow limiting	0: Disable, 1: Enable	1	☆
P23.06	Under-voltage value Setting	$200.0V \sim 2200.0V$	350V	☆
P23.09	Over-pressure Value setting	$200.0V \sim 2200.0V$	270V	*
P23.10	Automatic carrier freq change at low frequency	0: Disable, 1: Enable	1	☆
P23.11	Zero-speed running output control	0: Disable, 1: Enable	1	☆
P23.12	Sensitivity of Power phase loss protection	0~30.0%	13.0%	☆
	P	24 group AI curve setting		
P24.00	Min input of the AI curve 4	-10.00V∼P24.02	0.00V	☆
P24.01	Corresponding ratio of P24.00	-100.0%~+100.0%	0.0%	☆
P24.02	Turning 1 of the AI curve 4	P24.00~P24.04	3.00V	☆
P24.03	Corresponding ratio of P24.02	-100.0%~+100.0%	30.0%	☆
P24.04	Turning 2 of the AI curve 4	P24.02~P24.06	6.00V	☆
P24.05	Corresponding ratio of P24.04	-100.0%~+100.0%	60.0%	☆
P24.06	Max input of the AI curve 4	P24.06~+10.00V	10.00V	☆
P24.07	Corresponding ratio of P24.06	-100.07~+100.07	100.0%	☆
P24.08	Min input of the AI curve 5	-10.00V∼P24.10	-10.00V	☆
P24.09	Corresponding ratio of P24.08	-100.07~+100.07	-100.0%	☆
P24.10	Turning 1 of the AI curve 5	P24.08~P24.12	-3.00V	☆
P24.11	Corresponding ratio of P24.10	-100.0%~100.0%	-30.0%	☆
P24.12	Turning 2 of the AI curve 5	P24.10~P24.14	3.00V	☆
P24.13	Corresponding ratio of P24.12	-100.0%~100.0%	30.0%	☆
P24.14	Max input of the AI curve 5	P24.12~+10.00V	10.00V	☆
P24.15	Corresponding ratio of P24.14	-100.0%~100.0%	100.0%	☆
P24.24	Jump point of the All	-100.0%~100.0%	0.0%	☆
P24.25	Jump range of the All	0.0%~100.0%	0.5%	☆
P24.26	Jump point of the Al2	-100.0%~100.0%	0.0%	☆
P24.27	Jump range of the Al2	0.07~100.07	0.5%	☆

P24.28	Jump point of the Al3	-100.0%~100.0%	0.0%	☆
P24.29	Jump range of the Al3	0.0%~100.0%	0.5%	☆
	P30 gro	up Correction for the AI and AO		
P30.00	All Measured voltage 1	0.500V~4.000V	Factory	☆
P30.01	AII display voltage 1	0.500V~4.000V	Factory	☆
P30.02	All measured voltage 2	6.000V~9.999V	Factory	☆
P30.03	All display voltage 2	6.000V~9.999V	Factory	☆
P30.04	Al2 Measured voltage 1	0.500V~4.000V	Factory	☆
P30.05	AI2 display voltage 1	0.500V~4.000V	Factory	☆
P30.06	AI2 measured voltage 2	6.000V~9.999V	Factory	☆
P30.07	AI2 display voltage 2	6.000V~9.999V	Factory	☆
P30.08	AI3 Measured voltage 1	-9.999V~10.000V	Factory	☆
P30.09	Al3 display voltage 1	-9.999V~10.000V	Factory	☆
P30.10	Al3 measured voltage 2	-9.999V~10.000V	Factory	☆
P30.11	Al3 display voltage 2	-9.999V~10.000V	Factory	☆
P30.12	AOl target voltage l	0.500V~4.000V	Factory	☆
P30.13	AO1 Measured voltage 1	0.500V~4.000V	Factory	☆
P30.14	AO1 target voltage 2	6.000V~9.999V	Factory	☆
P30.15	AO1 Measured voltage 2	6.000V~9.999V	Factory	☆
P30.16	AO2 target voltage 1	0.500V~4.000V	Factory	☆
P30.17	AO2 Measured voltage 1	0.500V~4.000V	Factory	☆
P30.18	AO2 target voltage 2	6.000V~9.999V	Factory	☆
P30.19	AO2 Measured voltage 2	6.000V~9.999V	Factory	☆

7. Fault alarm and Countermeasures

7. Fault alarm and Countermeasures				
Displays	Fault name	Possible cause of failure	Trouble shooting	
Err01	Power module protection	Motor power is too high or Wiring short circuit or Power module damaged	Remove the motor wire and start it again. If there is any problem, repair the Inverter	
Err02	Undervoltage fault	The input voltage is abnormal or the Power relay is not engaged or the voltage detection fault	Check the power supply voltage or seek service from the manufacturer	
Err31	Overvoltage during acceleration	The input voltage is abnormal Restart when the motor	Check the input power supply Set to start after DC	
Err32	Overvoltage during deceleration	rotates The deceleration time is too short The input voltage is abnormal	Extend the deceleration time Check the input power supply	
Err33	Overvoltage at constant speed	The input voltage is abnormal	Check the input power supply	
	·	Improper setting of V/F curve or torque.	Adjust the V / F curve and the torque boost amount	
Err60	Inverter overload	Low input voltage.	Check the power supply voltage	
Liioo		The acceleration time is too short	Extend the acceleration time	
		The motor load is too heavy	Select a more powerful Inverter	
	OverCurrent	The acceleration time is too short	Extend the acceleration time	
Err61	during acceleration	The Inverter power is too small	Select Inverter with high power level	
	doodiciation	Improper setting of V/F curve or torque.	Adjust the V / F curve or the torque boost amount	
Err62	OverCurrent during	The deceleration time is too short	Extend the deceleration time	
LIIOZ	deceleration	The Inverter power is too small	Select the Inverter with high power level	
	OverCurrent of	Low input voltage.	Check the power supply voltage	
Err63	OverCurrent at constant speed	motor stall or load mutation is too large	Check the load	
	эрсси	The Inverter power is too small	Select a more powerful Inverter	
		Improper setting of V/F curve or torque.	Adjust the V / F curve or the torque boost amount	
Err64	Motor overload	Low input voltage.	Check the power supply voltage	
		motor stall or load mutation	Check the load	

Displays	Fault name	Possible cause of failure	Trouble shooting
		is too large Motor overload protection coefficient is not set correctly	Set the motor overload protection coefficient correctly
Err65	Wave by wave current limiting fault	Same with motor Overload	Same with motor Overload
Err40	hardware malfunction	Water, insects, etc	restart can not resume back to the factory repair
Err41	EEPROM R/W failure	EEPROM hitch	Seek a service from the manufacturer
Err42	Control power failure	The input power supply is not in the specification range	Adjust the voltage to the specification requirements
Err46	Current detection	Current sampling circuit fault	Seek a service from the manufacturer
	failure	Drive circuit failure	Seek a service from the manufacturer
Err11	External equipment failure 1	External fault input terminal 1 is closed	Disconnect the External fault terminal and clear the fault (pay attention to check the cause)
Err12	Communicatio n failure	485 Communication failed	Check the 485 connection
Err13	Accumulated runtime arrives	The cumulative running time reaches the set value	Clear record by Parameter initialization function
Err15	External equipment failure 2	External fault input terminal 2 is closed	Disconnect the External fault terminal and clear the fault (pay attention to check the cause)
Err16	Power on time arrives	The cumulative power on time reaches the set value	Parameter initialization function clear records
Err17	Contact / relay failure	External equipment input terminal fault	Disconnect the External fault terminal and clear the fault (pay attention to check the cause)
Err08	Power module overheated	Bad cooling fan or overheated ambient temperature	Check the Fan or heat dissipation or wait for cool to try again
Err90	Switching motor fault at runtime	Poor contact of motor line or switch between motor and Inverter	The Inverter must be directly connected to the motor to check that the motor line is loose
Err91	Ground short circuit fault	Short to earth fault	Disconnect ground line (pay attention to check the cause)
Err92	Input phase loss	Check input power line	Seek a service from the manufacturer

Displays	Fault name	Possible cause of failure	Trouble shooting
Err93	Output phase loss	output power line loss or a phase circuit for detecting current is abnormal	Check the output voltage and Check output power line
Err94	Motor overspeed failure	Motor speed exceeds the normal speed	Check whether the load has other power
Err95	Speed deviation failure	The speed gap is too large than the normal speed	Check the motor load
Err96	PID feedback loss at runtime	Poor contact with the PID sensor signal	Check the sensor signal
Err97	Load drop fault	Motor line is disconnected	Check the motor line
Err98	Motor over temperature	The motor overheat	Check motor temperature
Err99	Motor tuning fault	The motor parameters are not set according to the nameplate or the motor line is in poor contact	Set the motor parameters according to the nameplate and check the lead from the Inverter to the motor
ErrH1	Water shortage	Water shortage failure	Check for lack of water
ErrH2	Full water early warning	The water is full	Restore normal water pressure
ErrH3	High water pressure failure	Force shutdown failure	Too high water pressure, check the water pressure

5. Setup Description

When the P17.00 is set to non-0 value, the parameter protection password is set. You must enter the password before modifying the parameters. Cancel the password, and the P17.00 needs to be set to 0.

The parameter menu in user custom parameter mode is not password protected.

P01~P23 group is basic function parameter,

P00 group is monitoring function parameter.

The symbols in the function table are described as follows:

"☆": The set value of this parameter can be changed when the Inverter is Stop and Running state;

" \bigstar ": The set value of this parameter cannot be changed when the Inverter is in the running state;

"●": The value of the parameter is the actual detected record value and cannot be changed;

"*": It means that the parameter is the "Manufacturer Parameter" and is limited to the manufacturer setting to prohibit the user from operating.