

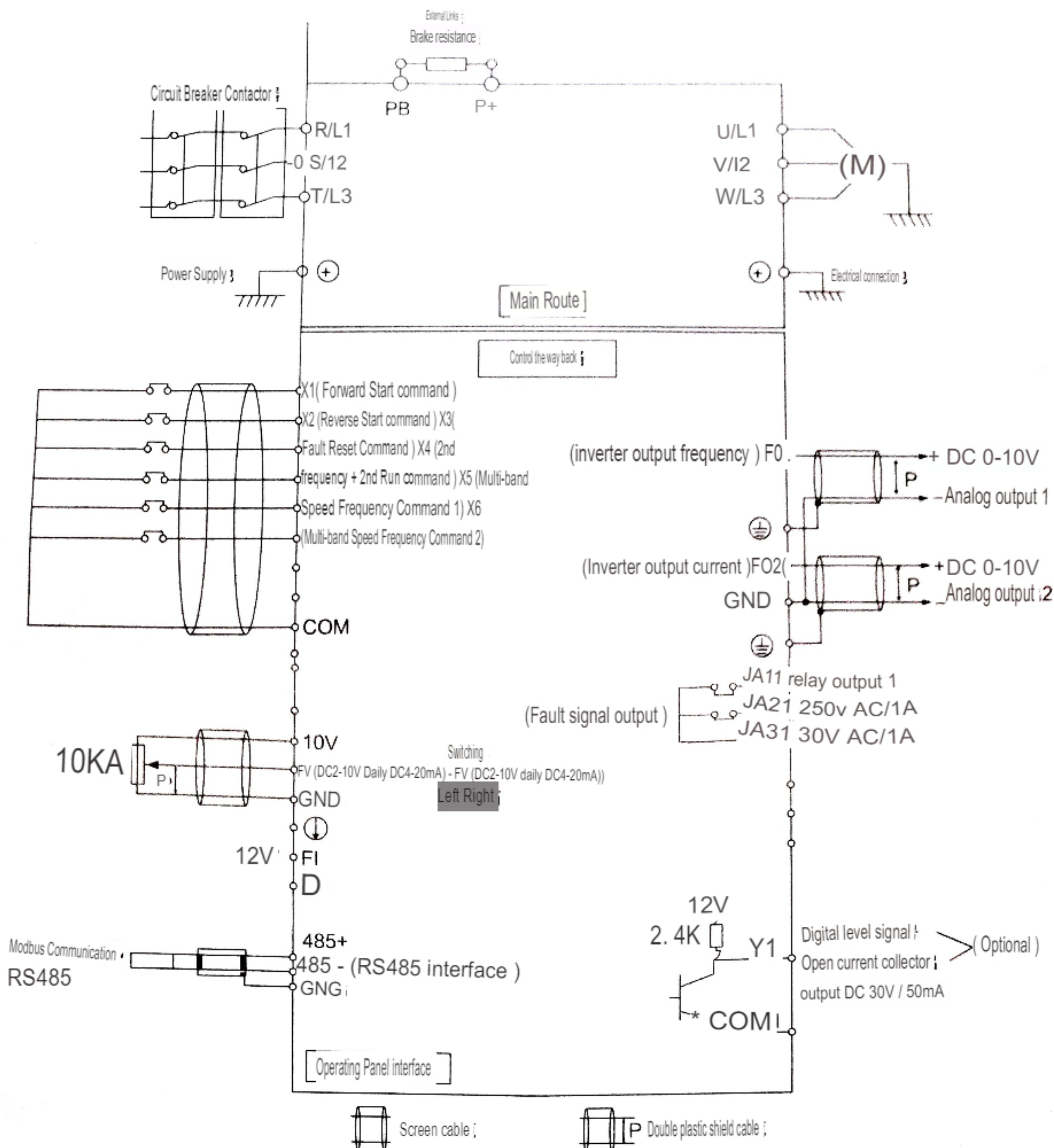
Thank you for choosing the Nitro DB620 series inverter. This manual includes operating instructions and notes for the use of the inverter. Incorrect use may occur without thinking about it.

Therefore, before using the frequency converter, please read this manual carefully, use the frequency converter correctly and submit this manual to the final use.

Do not install, operate, maintain or check the frequency converter until you read this manual and ancillary data carefully and can use it correctly.

1. Wiring instructions

1.1 Standard connection diagram |



1.2 inverter main loop terminal sub-arrangement |

⏏	R	S	T	P	B	U	V	W
⏏		L	N	P	B	U	V	W

1.3 Main loop end description |

End - of-life Numbers	Name of the end child	Description
L, N single phase	AC Power Input	Connect power frequency power supply Single phase AC220V 50-60HZ Three-phase AC230V or 380V 50-60HZ
R,S, T.		
U, V, W, W, W, W, W ✓	Frequency converter output	Three-phase squirrel cage electric machine
P,B.	Connecting brake resistance	Connect the brake resistor between P and B
⏏	Pick the ground	The frequency converter is connected to the ground, must be connected to the ground

1.4 Inverter control loop terminal sub-arrangement |

JA1	JA2	JA3	COM	X1	X2	X3	X4	X5	X6	F0	GND	+10V	FV	12V	485+	485-
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1.5 Control loop terminal instructions |

End - of-life Numbers	Name of the end child	Description
JA1,JA2,JA3	Relay JA contact output	JA3 public, JA1 normally open, JA2 normally closed, JA out of the factory The value is the fault signal output.
485+, 485-	Serial communication terminal	An end for serial communication with an external
+10V	Power supply for frequency setting	To the external potentiometer (4.7K-10K) Power supply
FV,GND	Analog signal input terminal	Connect the potentiometer or 0-10V signal as a frequency setting, PID feedback or PID feedback
12V,GND	12V power supply terminal	DC 24V power output (<50mA)
FO,GND	Analog signal output terminal	Output 0-10V signal, can be connected to DC10V voltage Table, can be used to indicate the operating frequency, output voltage, output current, etc., can be switched on and off, output 0-20mA electricity Stream signal
X1	Multi-function input terminal	Out of the factory set to forward operation

End - of-life Numbers	Name of the end child	Description
X2	Multi-function input terminal 2	Out-of-factory setup for reverse transfer operation
X3	Multi-function input terminal 3	Out of the factory is set to fail reset
X4	Multi-function input terminal 4	Factory set to 2nd Frequency Command + 2nd Run Command
X5	Multi-function input terminal 5	Out-of-factory setting for multi-band Speed Frequency Instruction 1
X6	Multi-function input terminal six	Out-of-factory setting for multi-band Speed Frequency Instruction 2
COM	Multi-function input terminal (common terminal) ;	Public land of X1-X6

Note :

1) The terminal COM is the public common end of the X1-X6 digital control signal (multi-function input terminal), the public common end of the terminal GND FV, FI, FO terminal , please do not send the terminal COM to the public common end of the X1-X6 digital control signal (multi-function input terminal).

They are connected to the ground.

- 2) The connection line of the control loop end should use a shield or double line , and must be separated from the main loop , strong power loop.
- 3) The control loop is recommended to connect with a 0.75 square millimeter cable.
- 4) The control loop can not input strong power, otherwise it will damage the inverter .

2. Running Operations

This chapter provides the basic "Run Operation" instructions for the product. Please read the contents of this chapter carefully before using the device.

2.1 Key-press function Description

Symbols	Press the key name	Function description
	Shift keys / Jog keys !	When programming and modifying the frequency , this key is used as a shift, in normal time In the machine state , press this key to jog the inverter function.
RUN	Run the command key !	Press this key to start the inverter running. When programming
	Additional Reading (UP)	and modifying the frequency , press this key to increase the number of values. When
	减少键 (DOWN key))	programming and modifying the frequency , press this key to reduce the number of values.
STOP RES	Stop command key / Fault reset key	In the normal operation state , press this key to stop running the inverter, in In Fault protection mode, press this key to reset the frequency converter
ENT F/R	Confirm key / Forward and reverse switch key ;	Press this key to read the data while programming , press this key to protect the data after modifying the data Store data . In the running state , this key can be used as a positive and negative switching function .
PRG	Programming key / Monitor switch key !	Under normal operating conditions , press this key to switch frequency , current , and electricity When you need to program , press and hold this key for 3 seconds to enter or Exit the parameter area .

2.2 Instructions for indicator lights

LED	Indicator name	Indicator light instructions
REF	External frequency signal Indicator light	When the frequency signal comes from the panel, this is not bright , the frequency signal comes from ！ This light is on when the part is on .
485	485 Communication Indicator	When the 485 communication function is selected , this light is on , otherwise it is not
PID	Light PID control indicator	on. When the PID function is selected , this light is on , otherwise it is not on.
SEQ	External operation signal Indicator light	When the inverter runs the signal from the panel, this light does not light, and the operation signal comes This light is on from the outside. This
F/R	Forward turn indicator light	light is on when the run is running (F/R and F / R when the forward-to-reverse conversion ！ is running). The STOP indicator blinks at the same time, when switching from reverse to forward F / R and STOP lights flash at the same time).
RUN	Running Indicator light	The RUN light is on in normal operation, and the frequency signal is 0. RUN The light flashes , and the STOP light is also on at this time. The STOP
STOP	Stop indicator light	light is on when the machine is normally stopped (the frequency has not decreased when the machine is slowed down The STOP light flashes when it arrives, and the RUN light is on at this time).

2.3 Description of the display contents of the digital tube |

Code Number	Physical House	Code Number	Physical quantity
F	Set frequency Operation frequency ;	M	Multi - stage speed Current - stage speed
A	Output current	I	PID feedback value
V	Output voltage ;	L	PLC operation status
U	DC bus voltage ;	C	External count value ;
P	Output power .	H	External Timepiece Time
n	Motor speed	i	Input terminal status ;
T	Output torque	o	Output terminal status
C.	Heat dissipation aluminum temperature		

!Note: The letters displayed by the display are long on in the standby state (RUN light is not on), and in the running state (RUN light is on) the letters do not stop flashing. Digital tube display

Please refer to the attached digital tube display character comparison table.

2.4 Parameter modification method

If you need to modify the parameters, first enter the function code that needs to be modified , and then reset the parameters, as follows :

Order	Operation	Description
1	Press and hold the PRG button for 3 seconds	Display P-000, enter parameter setting status
2	Press the key .	Adjust to the function code that needs to be modified
3	Press ENT 键 F/R	Display XXXXX, input parameter modification status
4	Press the key.	Re-set the parameter value as needed
5	按 ENT 键 F/R	Store the data , and then display the function code, the function code automatically jumps To the next function code , if you do not want to store data, press the PRG key directly Return to the current function code
6	Press the PRG button for 3 seconds	Press and hold this key for 3 seconds to exit the setting state , return to the standby or running state ;

注:

3. A list of function parameters :

3.1 Basic parameter groups (PO group parameters)

Code	Name	Description	Out of the factory Setting Up :	Minimum changes Units	Restrictions	Communication Address
P-000	Capacity function parameters	0-65535. When the P-800 is set to be active , this The parameter must be set to the same value as it before it can be modified Other parameters Note: The PID is given in the fixed pass (P-702 = 0) selection When set for the [P-000] teaching word , this parameter is used as Set the number of PID to the given source , can be used through the keyboard Directly adjust the PID value (note: [P-801=9], [P-802=767])	0	1	✓	000H
P-001	Parameter operation mode	01110: Restore function parameters to factory value 02220: Restore motor parameters to factory value 03330: Restore fault record to factory value 11111: Restore all parameters to factory value 22222: Restore all parameters to a specific value	0	1	✓	001H
P-002	Section 1: How to run the Instruction	0: The keyboard is running . 1: Terminal operation . 2: Multi-speed operation . Note: Multi-speed command control 3: Retention 4: RS485 operation . Note: 485 function must be turned on ;	0	1	✓	002H
P-003	1st Frequency Instruction Method	0: Keyboard frequency ; 1: Keyboard potentiometer frequency 2: FV terminal sub-frequency, note: 0~10V input 3: F / terminal sub-frequency, note: 20mA / 10V optional 4: RS485 frequency Note: 485 must be turned on.(Group P6) 5: PLC frequency . Note: PLC must be turned on. (PB group) 6: PID frequency . Note: PID must be turned on. (Group P7) 7: Pulse given frequency Note : P-A00-P-A09 Related 8-10: Retention 11: Main operation frequency, Note: Please refer to the P9 function group Note: Dial the P1 switch next to the signal terminal to the V-terminal. Ai2 Input for 0~10V . 0~20mA when dialed to the end Input . When 4~20mA input is required . Must be set The P - 209 is 128.0%. The P - 210 is 79.0.% ,	1	1	✓	003H
P-004	Class 1 Device control method	0. Standard VF control . 1: Torque compensation VF control 2: No PG vector control Note: When 1 or 2, the motor parameters must be set correctly (group P4)	0	1	✓	004H
P-005	Output upper limit rate ;	(P-006) 650. 0HHZ, note: Any over The frequency value of this parameter is limited to 50.00 0.01 Hz Run r .			✓	005H
P-006	Lower output lock rate	0.00~(P-005). Note: Anything less than this parameter The t insertion rate value, will be limited to the frequency of operation .	0.00	0.01Hz	✓	006H
P-007	1st Acceleration Time	0.1-6000.0 seconds Note: from acceleration to motor , The time required to set the frequency.	*	0.1S	✓	007H
P-008	1st Deceleration Time	0.1-6000.0 seconds Note: The speed is reduced by the motor's fixed frequency To the required time .	*	0.1S	✓	008H
P-009	Preset keyboard frequency	0.0 Hz ~ 650.0Hz. Note: When the frequency command is set to keyboard frequency, it is valid . When this parameter is used to set the default on power-up , Frequency value	25.00	0.01	✓	009H
P-010	Power-up default operation direction	0: Default positive direction . 1: Default anti-direction	0	1	✓	00AH
P-011	Carrier frequency setting	1.200~15.000KHz. Note: Upper limit and machine Type Related	*	0.001	✓	00BH
P-012	2. How to run the Instruction .	The function setting is the same as P-002 . Note: The value of 32 is set via the Xn digital input terminal Switch between the 1st and 2nd run instructions	1	1	✓	00CH
P-013	2nd Frequency Instruction Method .	The function setting is the same as P-003 . Note: The value is set via the Xn digital input terminal 31 : The 1st and 2nd frequency instructions can be performed Switch .	2	1	✓	00DH
P-014	Second frequency converter control method	The function setting is the same as P-004 . Note: The value of 30 is set via the Xn digital input terminal 1st and 2nd frequency converter control mode can be performed Switching	0	1	✓	00EH
P-015	Action mode selection at startup :	0: The smallest dam in the field after the suspension. 1: Start the search from the upper frequency limit . Note: The search start must be properly set to P -- 5.26 and P-527	0	1	✓	00FH
P-016	Torque compensation voltage at start-up	0.1-50.0V. Note: Setting too large can cause overcurrent	8.0	0.1V	✓	010H
P-017	Start time Torque compensation time	0.0-10.0 seconds Note: There is no starting torque compensation .	0.0	0.1S	✓	011H
P-018	DC braking voltage at start-up	0.1V~100.0V. Note: Brake current up to 90% inverter rating Current ,	8.0	0.1V	✓	012H
P-019	Direct current braking time at start-up	0.0-65.0 seconds Note: No direct current braking is started when it is 0	0.0	0.1S	✓	013H
P-020	Stop mode selection	0: Slow down and stop . 1: Free stop	0	1	✓	014H
P-021	Stop Frequency (DC brake start frequency) At this	0.10~10.00Hz. Note: When the machine is stopped, the frequency Descent : frequency, the output is stopped or the DC current is started Braking .	1.00	0.01	●	015H
P-022	Stop-at-stop direct flow system End-of-action mode ;	0: STOP the stop button when the DC brake is stopped It didn't work. 1: The braking time does not reach P-024, STOP The stop key is pressed to terminate the DC brake / Output .	1	1	V	016H
P-023	Dc brake voltage when stopped .	0.1V~100.0V. Note: *Maximum 90% inverter rating of brake current ; Current	8.0	0.1V	V	017H
P-024	Dc braking time at stop	0.0 ~ 65 seconds . Note: No stop DC current when it is 0 ; Braking	0.1S	0.1S	✓	018H
P-025	Forward and reverse switching dead zone time	0.01 seconds ~2.00 seconds ; Positive and reverse turn switching . Crossing at zero frequency ; Time:	0.06	0.01	✓	019H
P-026	Reverse operation is prohibited	0: Allow reverse operation . 1: Reverse operation is prohibited	0	1	●	01AH
P-027	Zero frequency operation Output time	0.0 S: Zero frequency when the inverter stops the output . 0.1 ~ 65.0 S: Zero frequency inverter output The output is stopped after the time set by this parameter. 65.1 S: At zero frequency, the inverter will output straight Direct current (0Hz) braking voltage set by P-018 .	0.1S	0.1	●	01BH
P-036	Flexible carrier modulation system	0~100.0% Note: When set to 0, it is turned off	50	0.1%	✓	024H

3.2 Auxiliary parameter group (P1 parameter group)

Code	Name :	Description	Out of the factory Setting Up :	Minimum Units	Changes : Restrictions	Communication Address
P-101	Multi-band speed frequency 1	0.0 Hz ~ 650. 0Hz. Note: Enter the digital signal into the terminal (P3 group) The value is set to 11.12.13.14< Multi-band speed 14.00 Rate instruction n>, can be used by the combination of Xn terminals To select the desired multi-segment speed frequency, group The combination method is as follows : Setting 11: Multi-band Speed frequency command 1. The value is 1 Setting 12: Multi-band Speed frequency command 2. The value is 2 Setting 13: Multi-band Speed Frequency command 3. The value is 4 Setting 14: Multi-band Speed Frequency command 4. The value is 8 Example: Need to use multi-band speed frequency 1 0 (P-110). Then make the multi-segment speed frequency instruction 2 and Multi-band Speed Frequency Command 4 is valid at the same time (2+8=10) that is . Related parameters : P-300.P-301.P-302.P-303. P - 3 0 4 . - 3 0 5 . - 3 0 6 . P-307.P-308.P-316.	5.00	0.01	✓	041H
P-102	Multi-band speed frequency 2		50.00	0.01	✓	042H
P-103	Multi-band speed frequency 3		) 30.00	0.01	✓	043H
P-104	Multi-band speed frequency 4		frequency	0.01	✓	044H
P-105	Multi-band speed frequency 5		15.00	0.01	✓	045H
p-106	Multi-band speed frequency 6		16.00	0.01	✓	046H
P-107	Multi-band speed freq7		17.00	0.01	✓	047H
p.-108	Multi-stage speed rate8		18.00	0.01	✓	048H
P-109	Multi-band speed frequency 9		19.00	0.01	✓	049H
P-110	Multi-band speed frequency 10		20.00	0.01	✓	04AH
P-111	Multi-band speed frequency 11		21.00	0.01	✓	04BH
P-112	Multi-band speed frequency 12		22.00	0.01	✓	04CH
P-113	Multi-band speed frequency 13		23.00	0.01	✓	04DH
P-114	Multi-band speed frequency 14		24.00	0.01	✓	04EH
P-115	Multi-band speed frequency 15		25.00	0.01	✓	04FH
P-116	Jog frequency setting :	0.0 Hz 650. 0Hz.	6.00	0.01	✓	050H
P-117	Jog stop mode :	0: Slow down and stop 1: Free stop Note: When the Jog run command is valid , it is used to ! set Ways to stop . Note: The jog frequency command is not valid	1	0	V	051H
P-118	Jog Speed up time	0.1 seconds -6000 seconds . Speed up time refers to the speed up to the motor rated frequency Rate of time required Deceleration .	20.0	0.1S	✓	052H
P-119	Jog Speed Reduction time	time refers to the deceleration from the motor rated frequency to 0Hz The time required	20.0	0.1S	✓	053H
P-120	2nd Acceleration Time	. Note: Use jog plus speed reduction time when jog. It's urgent. When the stop order is valid, press P-126 to stop the flight. Note: The following functions can be used in section 2. Article 3. 4th ED., Deceleration Time : 1: Digital input terminals (P3 group) are set to 15 and 16 2: Program Run (PC group). 3: (P-919.P-920.P-921) as set by Automatic Speed <Plus / Minus switching > Function Note: When the emergency stop command is valid, it will be automatically switched To the P-126 set time to slow down and stop the aircraft . Priority . The highest level .	20.0	0.1S	✓	054H
P-121	Second Deceleration time		20.0	0.1S	✓	055H
P-122	3rd Acceleration Time		30.0	0.1S	✓	056H
P-123	3rd Deceleration Time		30.0	0.1	✓	057H
P-124	4th Acceleration Time		40.0	0.1S	✓	058H
P-125	Step 4: Deceleration Time		40.0	0.1S	✓	059H
P-126	Emergency Stop speed reduction time		10.0	0.1S	✓	05AH
P-128	S-type acceleration curve time	0.00 seconds ~10.00 seconds Note : According to the S-curve to increase and decrease the speed of operation, can be 0.00 0.01 Reduce the impact of machinery at start and stop. Note: When this parameter is set ,the S-curve is not Effect, that is , with a straight line plus and minus speed . Note: When setting the S-curve is effective , the actual speed is added and subtracted Time will be extended .			✓	05CH
P - 129	S-type deceleration curve time		0.00	0.01	✓	05DH
P-131	Pause time during start-up	0.00 seconds -65.00 seconds Note: This parameter is related to P-133.P-134 mating makes 0.00 It can be completed to maintain operation at a set frequency The function of a fixed time . For heavier loads in Use this function when starting and stopping to prevent hair It is found in the Democratic Republic of the Congo . Note: When this parameter is set to 0 , the pause function does not work :		0.01	✓	05FH
P-132	Stop Time Stop time		0.00	0.01	✓	060H
P-133	Pause frequency when starting	0.0 Hz ~ 650.0Hz Note: If P-131 sets a valid value . At the speed of transport ; When the line reaches the frequency value set by P-133 , Will maintain the time set by P-131 to continue : Speed up operation .	2.00	0.01	●	061H
P-134	Pause frequency when stopped	Note: If P-132 sets a valid value . At the speed of the slow movement When the line reaches the frequency value set by P-134 , Will continue after the time set by P-132 Slow : down operation .	2.00	0.01	●	062H
P-135	The 1st lower end of the avoidance frequency	0.0-Upper frequency limit Note: When the mechanical device occurs resonance, for the total Vibration rate point, set this parameter can effectively prevent a total The vibration phenomenon occurs . Note: The avoidance frequency is not valid when this parameter is set .	0.00	0.01	✓	063H
P-136	1st Stage 1 Vuella a España. El Salvador (1st stage) ;	Multiple avoidance point settings are subject to the following conditions : P-135~P-136 • sP-137 P-138 ≤ P-139~P-140	0.00	0.01	✓	064H
P-137	The 2nd lower end of the avoidance frequency ;		0.00	0.01	✓	065H
P-138	The 2nd Evasive upper end :		0.00	0.01	✓	066H
P-139	The 3rd lower end of the avoidance frequency ;		0.00	0.01	✓	067H
P-140	The 3rd Evasive upper end :		0.00	0.01	✓	068H

3.3 Analog signal terminal Subgroups (P2 group parameters)

Code	Name	Description	Out of the factory Setting up units	Minimum changes units	Changes : Restrictions	Communication Address
P-200	Analog input interference filter amplitude	0.0%~5.0% Analog input disturbances smaller than this parameter are ignored Slightly to filter out the input interference signal . Note: The maximum range of the analog input corresponds to 100%.	2.0	0.1%	✓	080H
P-202	FV Analog input maximum frequency reference 0.1 Ha~650.0		50.00	0.01	✓	082H
Hz P-203	FV Analog input terminal gain 0.1%~200.0%		100.0	0.1%	✓	083H
P-204	FV Analog input terminal bias 0.1%-200.0% -205		100.0	0.1%	✓	084H
FV Analog input terminal upper limit 0.19~200.0%			100.0	0.1%	✓	085H
P-206	FV Analog input terminal lower limit 0.0%-100.0%		0.5	0.1%	✓	086H
P-207	are below . FV analog input pole and the lower limit.	0: Clear zero when the positive pole and lower limit 1: Keep the positive pole and lower limit . 2: Clear zero when the inversion and lower limit are below . 3: Anti-polar and lower limit when maintained .	0	1	V	087H
P - 208	FI analog input maximum frequency reference 0.1 -650.0 Hz		50.00	0.01	✓	088H
P - 209	F1 Analog input terminal gain 0.1%-200.0% P .		128.0	0.1%	✓	089H
- 210	FI Analog input terminal bias 0.1%~200.0% P -		79.0	0.1%	✓	08AH
211	FI analog input terminal upper limit 0.1%~200.0%		100.0	0.1%	✓	08BH
P - 212	F1 Analog input terminal lower limit 0.0%-100.0%		0.5	0.1%	✓	08CH
P-213	Fare below . Analog input pole and the lower limit.	0: Clear zero when the positive pole and lower limit 1: Keep the positive pole and lower limit . 2: Zero when the inversion and lower limit are below . 3: Anti-polar and lower limit when maintained .	0	1	✓	08DH

Code	Name	Description	Unit Setting	Minimum changes Units	Restrictions	Communicator Address
P - 234	FO Analog output terminal function	0: Reactive function 1: Frequency converter set frequency 2: Inverter output insertion rate 3: The output current of the converter 4: Frequency converter output voltage 5: DC bus voltage 6: Motor output power 7: Motor speed 8: Output torque 9: Heat disperser temperature 10: Reservation 11: FV input terminal simulation 12: FI input terminal simulation 13: PID given value 14: PID feedback value 15: Reservation	2	1	✓	0A2H
P - 235	FO analog output terminal gain	0.1%~200.0%	100.0	0.1%	✓	030H
P-236	FO analog output terminal bias	0.1%~200.0%	100.0	0.1%	✓	0A4H
P-237	FO Analog output terminal upper limit	0.0%~100.0%	100.0	0.1%	✓	0A5H
P-238	FO analog output terminal lower limit	0.00~100.0%	0.0	0.1%	✓	0A6H
P-239	FO analog output pole and the lower limit	0: Clear zero when the positive pole and lower limit are below 1: Keep the positive pole and lower limit 2: Clear zero when the inversion and lower limit are below 3: Anti-polar and lower limit when maintained	0	1	✓	0A7H
P-240	FO2 analog output Terminal function	0: Reactive function 1: Frequency converter set frequency 2: Frequency converter output frequency 3: Inverter output current 4: Inverter output voltage 5: DC bus voltage 6: Motor output power 7: Motor running speed 8: Motor electromagnetism torque 9: Heat disperser temperature 10: Reservation 11: FV input terminal sub-analog value 12: FI input terminal sub-analog value 13: PID given value 14: PID feedback value 15: Reservation	3	1	✓	0A8H
P - 241	FO2 Analog output terminal gain	0.1%~200.0%	100.0	0.1%	✓	0A9H
P - 242	FO2 Analog output terminal bias	0.1%~200.0%	100.0	0.1%	✓	0AAH
P-243	FO2 analog output terminal upper limit	0.0%~100.0%	100.0	0.1%	✓	0ABH
P - 244	FO2 Analog output terminal lower limit	0.0%~100.0%	0.0	0.1%	✓	0ACH
P-245	FO2 analog output pole and the lower limit	0: Zero is cleared when the positive pole and the lower limit are below 1: Keep the positive pole and lower limit 2: Clear zero when the inversion and lower limit are below 3: Anti-polar and lower limit when maintained	0	1	✓	0ADH

3.4 Digital signal terminal Subgroups (P3 group parameters)

Code	Name	Description	Out of the Set unit Limits	Factory Minus	Changes	Communicator Address
P-301	X1 input terminal function	0: Reactive function 1: Forward start command 2: Reverse Boot Command 3: Set Stop Order 4: Immediate Stop Order	1	1	✓	0C1H
P-302	X2 input terminal function	5: Emergency Stop Order 6: Set the jog run command 7: Forward Jog operation command 8: Reverse Jog operation command 9: Reservation	2	1	✓	0C2H
P-303	X3 input terminal function	10: Jog Frequency Command 11: Multi-band Speed Frequency Command 1 12: Multi-band Speed Frequency Command 2 13: Multi-band Speed Frequency Command 3 14: Multi-band Speed Frequency Command 4 15: Speed Reduction Time Switching Instruction 1	25	1	✓	0C3H
P-304	x4 input terminal sub - function	16: Speed and Deceleration Time Switching Instruction 17: No Acceleration and Deceleration Order (Stay suspended) 18: Frequency Increment Command (UP) 19: Frequency Reduction Command (Down) 20: UP/Down Frequency Clearing Command 21: External Anomaly Instruction 1 (EF1) 22: External Anomaly Instruction 2 (EF2) 23: External Anomaly Instruction 3 (EF3) 24: External Anomaly Instruction 4 (EF4) 25: Fault Reset Command	33	1	✓	0C4H
P-305	X5 input terminal function	26: Reservation 27: Reservation 28: Reservation	11	1	✓	0C5H
P-306	X6 input terminal function	29: Auxiliary frequency operation function is disabled 30: Second converter control mode switching 31: Second frequency command mode switching 32: Operation 2 Command Universal Switching 33: 2nd Frequency Command + 2nd Run Command 34: PLC internal timer starts 35: PLC internal timer reset 36: PLC pulse meter input 37: PLC pulse meter number reset 38: PLC Full reset command	12	1	✓	0C6H
P-307	X7 input terminal function	39: Auxiliary frequency operation function is disabled 40: Second converter control mode switching 41: Second frequency command mode switching 42: Operation 2 Command Universal Switching 43: 2nd Frequency Command + 2nd Run Command 44: PLC internal timer starts 45: PLC internal timer reset 46: PLC pulse meter input 47: PLC pulse meter number reset 48: PLC Full reset command	17	1	✓	0C7H
P-308	X8 input terminal function	49: Auxiliary frequency operation function is disabled 50: Second converter control mode switching 51: Second frequency command mode switching 52: Operation 2 Command Universal Switching 53: 2nd Frequency Command + 2nd Run Command 54: PLC internal timer starts 55: PLC internal timer reset 56: PLC pulse meter input 57: PLC pulse meter number reset 58: PLC Full reset command	0	1	✓	20C8H
P-316	Digital input terminal sub-pole	0-65535. When the corresponding bit is set to 0, it is Normally open type (not reverse). The corresponding bit setting is When valid, normally closed (reverse) terminal sub-pole: The several corresponding settings are as follows: X0=1. X1=2. X2=4. X3=8. X4=16. X5=32. X6=64. X7=128. X8=256. X9=512. X10=1024. X11=2048. X12=4096. X13=8192. X14=16384. X15=32768. Example: Make X2 and X4 reverse then calculate: 4+16=20 Sets the value of this parameter to 20. I. e. 1. Allows the X2 and X4 signal input levels to be < Reverse To input >	0	1	✓	0D0H

Code	Name :	Description	Out of the changes Setting up	Minimum Units	Changes Restrictions	Communication Address
P-317	Terminal operation control mode	10: Two-wire level machine type 1.(Level active type / 正反转指令) When it does not work, the logic stops when <Positive pass. Instructions > And < Reverse Direction Command > When it is valid at the same time 变频器 EFr> Call the police	0	1	√	0D1H
		1: Two-wire level mode 2.(Level valid type letter No.) Note :< Forward Command > is the run signal .< Reverse Go to Command > for directional signal . Example: When it is valid at the same time Run in reverse direction .				
		2 Three-wire trigger mode 1. (Trigger-holding type Note :< Forward command > Run for forward .< Reverse rotation Command > Runs in reverse direction . < Stop Order > Yes Stop Signal				
		3: Three-wire trigger mode 2. (Trigger-holding type It is found in the United States. Note :< Forward Command > is the run signal .< Reverse finger The order is a directional signal . < Stop Order > For Stop Signal				
P-318	Power-up terminal operation protection	0: Allow the terminal to run when connected to the power supply . 1: Disable terminal operation (protection) when connected to power supply	1	1	√	0D2H
P-332	Fixed frequency up to the baseline	0.0 Hz 650.0Hz Note: Set a value of 11 on the digital output terminal< Fixed This parameter is valid when the frequency reaches check - out>. Related Parameters : P-340. P-341. P-342. P-343. (Set 11).	25.00	0.01	√	0E0H
P-333	Fixed rate consistent	0.0 - 650.0Hz Note: Set a value of 12 on the digital output terminal< Fixed This parameter is valid when the frequency is consistent>. Related Parameters P-340. P-341. P-342. P-343. (Set 12).	25.00	0.01	√	0E1H
P-334	Consistent detection width	0.0 Hz - 650.0Hz Note: Set a value of 12 or a value of 13 on the digital output terminal When this parameter is used to set the frequency range . / Related parameters: P-340. P-341. P-342. P-343.	2.00	0.01	√	0E2H
P-340	Y0 output terminal JA1. JA2.JA3 Function	0: Reactive function 1: The machine is in operation (operation with frequency of 0) 2: Speed up operation 3: Constant frequency operation	14	1	√	0E8H
P-341	Y1 output terminal (Open-drain output) function	4: Slow down in operation 5: Slow down in the car 6: Direct current braking 7: In - flight Mode 1(excluding in-flight) 8: In - run mode 2(including in-flight)	11	1	√	0E9H
P-342	Y2 output terminal JB1. JB2. JB3 Function	9: Jog Running 10: Reverse direction detection 11: Fixed frequency to check out 12: Fixed frequency consistent detection 13. Give a fixed frequency consistent ;	10	1	√	0EAH
P-343	Y3 output terminal (Open-drain output) function	detection 14: Fault signal output 15: Fault automatic retry 16: Timepiece Arrival 17: Count to reach	7	1	√	0EBH
P-356	Digital output terminal sub-pole	0-65535. When the corresponding bit is set to 0, it is normal Open type (not reverse). The corresponding bit is set to valid The value is normally closed (reverse). Terminal polar response The settings are as follows : Y0=1. Y1=2. Y2=4. Y3=8. Y4=16. Y5=32. Y6=64. Y7=128. Y8=256. Y9=512. Y10=1024. Y11=2048. Y12=4096. Y13=8192. Y14=16384. Y15=32768. Example: Make Y1 and Y2 reverse then calculate: 2+4=6 Set Set the value ; of this parameter to 6. That is, you can make Y1 and Y2 letters The output of the number is < Reverse output >	0	1	√	0F8H
P-357	Y0 Open delay time	10 millimeter-second ~65000 millimeter-second .	0	1mS	√	0F9H
P-358	YCShutdown Delay time	The on-off delay time refers to: in the off state there is Opening conditions, need to pass through this delay time to be true Positive output on level . Shutdown delay time refers to: in the open state there is Shutdown conditions, need to pass through this delay time to be true Positive output shutdown level. Note: The delay time has the function of filter, in the delay time The pulse signal over time will be ignored .	0	1mS	√	0FAH
P-359	Y1 Opening delay time		0	1mS	√	0FBH
P-360	Y1 Shutdown delay time		0	1mS	√	0FCH
P-361	Y2 Open delay time		0	1mS	√	0FDH
P-362	Y2 Shutdown delay time		0	1mS	√	0FEH

3.5 Motor parameters set (P4 parameters)

Code	Name :	Description	Out of the changes Setting up units	factory Minimum 限制	Communication Address	
P-402	Motor rated frequency	(P415)-650.0Hz. According to the name of the machine, Card input	50.00	0.01	√	102H
P-403	Motor rated voltage :	(P-416)~460.0V. Enter according to the name of the machine (P-416)-265.0V. Enter according to the name of the machine	380.0 220.0	0. 1V	√	103H
P-404	Motor rated current ;	0.5A-999.9A. According to the machine nameplate input The 注: 电 relevant protection of the machine is based on this value .	*	0. 1A	●	104H
P-405	Motor rated speed	85%~100.0%. According to the name of the motor ! Input Note: (Motor name plate speed / motor synchronous speed)	*	0.1%	√	105H
P-406	Motor no-load current :	10%-90.0%. Can be learned by rotating self-learning Get it. Note: (Motor no-load current / motor rated current)	*	0.1%	√	106H
P-407	Motor inter-line resistance	0.030~65.0N. Can be obtained by static self - learning !	*	0.001	√	107H
P-408	Motor stator leakage voltage drop	0.1~70.0% can be obtained by static self-learning	15.0	0.1%	√	108H
P-409	Motor core loss coefficient ;	0.1~10.0% Can be obtained through dynamic self - learning !	2.0	0.1%	√	109H

Code	Name	Description	Out of the Setting up units	Minimum	Changes Restrictions	Communication Address
P-410	Motor core and series	30.0-150% can be obtained through dynamic self-learning	80.0	0.1%	✓	10AH
P-411	Motor attached loss	0.1-10.0% can be obtained through dynamic self-learning	2.0	0.1%	✓	10BH
P-412	Torque ratio	0.5-50.0% can be obtained through dynamic self-learning	5.0	0.1%	✓	10CH
P-414	V/F curve selection	0: Fan pump 1.8 second screen fixed VF curve 1: Fan pump 1.6 times fixed VF curve 2: Fan pump 1.4 times fixed VF curve 3: Fan pump 1.2 second screen fixed VF curve 4: Constant torque 1 fixed VF curve 5: Constant torque 2 fixed VF curve 6: Constant torque 3 fixed VF curve 7: High torque 1 fixed VF curve 8: High torque 2 fixed VF curve 9: High torque 3 fixed VF curve 10: Custom VF curves .P-415~P-420 Setting Up Note: Due to the complexity of the situation , it is recommended to use Custom VF curves are free to set . Additional vectors When controlling . Fixing the VF curve is not effective . Internal automation Switch to any VF curve as vector control REFERENCESBIBLIOGRAPHYEXTERNAL Links	10	1	●	10EH
P-415	Intermediate frequency 1	(P-417)-(P-402)	5.00	0.01	✓	10FH
P-416	Intermediate frequency 1 output	voltage (P-418)-(P-403)	42.0* 23.0*	0.1V	✓	110H
P-417	Intermediate frequency 2	(P-419)-(P-415)	3.00	0.01	✓	111H
P-418	Intermediate frequency 2 output voltage	(P-420)-(P-416)	25.0* 14.0*	0.1V	✓	112H
P-419	Minimum frequency	0.10Hz-(P-417)	1.00	0.01	●	113H
P-420	Minimum frequency output voltage	0.1V-(P-418)	15.0* 9.0*	0.1V	✓	114H
P-421	Self-learning method of motor parameters	0: Aim to learn None 1: Quiet self-learning 2: Spin self-learning 3: Spin self-learning and automatically set the VF curve . Note: To ensure the correct implementation of the motor parameters line , before implementing the parameter self-word , P-402.P-403P-404.P-405. Should Enter the name card parameters of the motor correctly . Recommended Setting 2 or 3 pairs of motors to implement rotation self-learning, and So that the motor is off negative, so that the off can be detected All motor parameters required for quantitative control (If electric) When the machine is unable to disengage from the load, it can be set to 1 pair of electricity Machine implementation of static stop self-learning (P-406 requires manual is found in the United States	0	1	●	115H
P-422	Increase in excitation adjustment	1.0%-300.0% Note: Standard VF control (P-004.P-014=0) When this parameter is invalid , the setting value is too large to cause power Machine shaking	60.0	0.1%	✓	116H
P-423	Excitation adjustment rate	1.0%~500.0% Note: Standard VF Control (P-004.P-014=0) This parameter is invalid . The greater the set value, the greater the excitation noise. The faster the speed should be set, the higher the value of the setting can cause power. Machine shaking	80.0	0.1%	✓	117H
P-424	Speed adjustment gain	1.0%~150.0% Note: Vector control only (P-004.P-014=2) When the parameter is valid . Set too large to start the motor Tremors .	70.0	0.1%	✓	118H
P-425	Speed adjustment speed rate	1.0%~400.0% Note: This value is set according to the load characteristics . As of 2010. When the inertia is large, reducing this value requires a high response Increase this value at speed . When the response speed is too fast, The speed of rotation may appear unstable (vibration phenomenon). Please reduce the setting value . 注 Note: Only in vector control (P-004.P-014=2) when , This parameter is valid .	*	0.1%	✓	119H
P-426	Adaptive Control Gains	1.0%~100.0% Note: This parameter is only valid for synchronous machine control . Setting Up The value is too small . Narrowing of control range , no-load current bias The great efficiency drops . When set too large , the load state When the state will cause the control overshoot , the harmonic wave increases . Electric motor The tremor increased . It is recommended that the setting value is not too large.	30.0	0.1%	✓	11AH
P-427	Motor vibration suppression gain	1.0%~100.0% Note: Low-frequency current vibration occurs when the motor is no-load When swaying, increase the value . Setting a value too large can cause At high-speed load conditions, the motor appears to vibrate. The stream is growing . Recommendations in case of no-load vibration The set value is incrementally increased from small to large . According to the tune The actual situation after the whole . And then decide on the increase or decrease.	20.0	0.1%	✓	11BH

3.6-Protection function group (P5 group parameters)

Code	Name	Description	Out of the factory Setting Up :	Minimum changes Units	Restrictions	Communication Address
P-500	Input phase missing detection criteria	5.0%-100.0%. Note: In the rated load state , the three-phase input power When the voltage-to-voltage deviation is greater than this setting, the input is out of phase . The smaller the setting value, the more sensitive the action . When a value of 100.0 is set, the input phase is not detected.	25.0	0.1%	✓	140H
P-501	Input phase loss detection time	0.600 seconds ~10.000 seconds Note: When the three-phase input voltage deviation is greater than The value of P-500, and set by this parameter After the time, the motor is free to stop and report Fault code .	2.800	0.001	✓	141H
P-502	Output phase missing detection criteria	15.0%~100.0% Note: In the rated load state , the three-phase output power The flow-to-flow deviation is greater than this setting, and the output is out of phase. It is found in the United States . The smaller the setting value, the more sensitive the action . When a value of 100.0 is set, the output phase is not detected.	65.0	0.1%	✓	142H
P-503	Output phase loss detection time	0.600 seconds -10.000 seconds . Note: When the three-phase output current deviation is greater than The value of -502, and set by this parameter After hours , The motor is free to stop and report Fault code .	2.500	0.001	✓	143H

Code	Name	Description	Default Value Setting Up	Minimum Units	Changes Restrictions	Communication Address
P-504	Motor over load protection	0: Turn off the motor over load protection function . 1: Standard motor free stop . 2: Standard motor . Press P-020 to set the mode to stop. 3: The variable frequency motor is free to stop . 4: Variable frequency motor . Press P-020 to set the way to stop .	1	1	✓	144H
P-505	Motor over load protection standards	20.0%-200.0% Note: ;100% corresponding (P-404) motor rated current . When set 100%, corresponding to 150%, 1 minute resistance Set . the appropriate value according to the actual resistance of the motor .	110.0	0.1%	✓	145H
P-506	Motor over-load protection time	6.0 seconds -600.0 seconds . Note: This parameter is used in conjunction with (P-505). Yes, electricity. The machine implements electronic thermal protection function , with an anti-time Characteristics : Motor over load protection when detected , motor freedom Stop and report	limit 60.0	0.1S	✓	146H
P-508	Over - current stall protection standard	20.0%~200.0% Note: 100% of the corresponding inverter rated current . Note: When P-507 is set to be active and the output current exceeds Stop accelerating when setting the value of this parameter, until output When the current reverses , it continues to accelerate . Under the factory value When there is still stall , reduce the setting value .	160.0	0.1%	✓	148H
P-509	Overcurrent stall frequency drop rate	1.0%~300. 0% 注 When continuous detection of overcurrent stall value exceeds : 100mS. If the current still does not respond , it will be based on the present The speed . at which the parameter is set is used as a reference to slow down the operation .	30.0	0.1%	✓	149H
P-512	Overvoltage stall protection standard	(P-514)~150.0% . Note: 380V class 100% corresponds to 537V (DC). (P-514)-145.0% Note: 220V class 100% corresponds to 311V (DC).	138.0 130.0	0.1%	✓	14CH
P-513	Mode of action of the brake unit	0: Close the brake unit . 1: Effective only when slowing down operation . 2: Effective in slow down operation and constant frequency operation . 3: Always effective	2	1	✓	14DH
P-514	Brake unit on voltage Basic criteria	(P-515)- (P-512) Note: 380V class 100% corresponds to 537V (DC). Note: 220V class 100% corresponds to 311V (DC).	133.0 120.0	0.1%	✓	14EH
P-515	Braking unit shutdown voltage ; Basic criteria	112.0%~ (P-514) Note: 380V class 100% corresponds to 537V (DC). 105.0%~ (P-514) Note: 220V class 100% corresponds to 311V (DC).	127.0 115.0	0.1%	✓	14FH
P-516	Magnetic flux brake open voltage Basic criteria	125.0%~ 150.0% Note: 380V class 100% corresponds to 537V (DC). 115.0%~145.0% Note: 220V class 100% corresponds to 311V (DC).	138.0 125.0	0.1%	✓	150H
P-518	Electric torque limit basis	5.0%~500.0% When , [P-942] is set to . This parameter is used for Set the baseline value of the torque limit when the electric state is set	500.0	0.1%	✓	152H
P-519	Regenerative torque limit standard	5.0%~500.0% When [P-943] is set to . This parameter is used for Set the baseline value of the torque limit in the regenerative state	500.0	0.1%	✓	153H
P-520	Torque limit adjustment rate	1.0%~300.0% When the actual output torque of the motor is greater than the set value The frequency converter automatically controls the speed . This parameter Used to adjust the frequency when setting the torque control The larger the fast and slow parameter setting, the faster the frequency adjustment .	30.0	0.1%	✓	154H
P-521	Low voltage protection standard	0.0%~30.0% By reducing the operating frequency before low voltage detection So that the motor is in the power generation state, so that the feedback of electricity Can maintain the voltage of the mother line. Note: The larger the value of this parameter is set . Down-frequency actuating value The higher the value of the voltage . The stronger the protection ability .	8.0 5.0	0.1%	✓	155H
P-522	Low voltage check-out criteria ;	50.0%~90.0% Note: 380V class 100% corresponds to 537V (DC). Note: 220V class 100% corresponds to 311V (DC). Note: When the machine is stopped, the low voltage is detected only UV1 alarm . When running, low voltage detection is reported as a UV1 fault . And free to stop the plane .	60.0 56.0	0.1%	✓	156H
P-523	Instant power-off mode ;	0: Not valid . (UV1 is detected when the power is stopped instantly). 1: The time limit is valid (power in the time of P-525 Source Recovery , Then the speed search method starts ; again , Ultra UV1 is detected by the time set by P-525). 2: It has been effective . (Only the CPU control board is available If the power is not interrupted, wait until the power supply is restored . Electricity) After the source is restored, the speed search mode is started again . UV1 detection is not performed in this way). Note: Set the relevant parameters when they are valid : P-525. P-526. P-527. P-528.	0	1	✓	157H
P-524	Instant shutdown frequency drop rate	0.0%~500.0% This parameter will be followed during instant power-down protection operation The set speed rate reduces the operating frequency . Appropriate Fitting [P-521] adjustment . Can be achieved very well Electric grid without impact switching . Protection against variable frequency The production shutdown caused by the protection of the machine .	30.0	0.1%	✓	158H
P-525	Instant power-off compensation time	0.1 seconds ~4.000 seconds . Note: When P - 523 is set to 1, this parameter is used To set the time limit to allow power down .	1.000	0.001	✓	159H

Code	Name	Description	Out of the factory Setting Up	Minimum Units	Changes Restrictions	Communication Address
P-526	Speed search voltage series	10.0%~50.0%. 注: 100% corresponding to P-403 motor rating. Note: The voltage output of the speed search frequency converter. If an OC (overcurrent) condition occurs during the search, please reduce the setting value.	25.0	0.1%	✓	15AH
P-527	Speed Search Speed reduction time	0.1 seconds ~20.0 seconds Note: The search time from the upper frequency limit. This value should be set appropriately according to load inertia. Habit. Sexual small hours. This setting should generally be reduced.	1.0	0.1S	V	15BH
P-528	[Minimum BB (base lock) sets the Time:]	0.01 seconds -8.000 seconds Occurs at the beginning of speed search and DC braking OC< ; When overcurrent > conditions, increase the setting value	0.15*	0.001	✓	15CH
P-529	Maximum voltage adjustment coefficient	90.0%~128.0% Suitable for low grid voltage. By raising the female cable, ; Voltage utilization rate to increase the output voltage. Setting values The larger the lift, the more, but the vibration of the motor will become larger.	100.0	0.1%	✓	15DH
P-531	External Anomalies (EF1) Mode of action	0: Deceleration stops and reports a fault. 1: Free to stop and report a fault. 2: Just call the police. Do not stop (continue to run). Note: Set by the digital input terminal to 21.22.23.24 Enable this feature. Related parameters : P-301. P-302. P-303. P-304. P-305. P-306. P-307. P-308.	1	1	✓	15FH
P-532	External Anomalies (EF2) Mode of action		1	1	V	160H
P-533	External Anomalies (EF3) Mode of action		1	1	✓	161H
P-534	External Anomalies (EF4) Mode of action		1	1	✓	162H
P-536	Fault automatic retry number of times	0-3 times. Note: Used to set fault auto reset and start The number of retry times still occurs when the set value is reached Failure, can not work normally, do not try again. Note: When set to 0, the failure retry function is disabled.	0	1	✓	164H
P-537	Fault automatic reset Time: Interval I	0.5 Seconds -600.0 seconds Note: This parameter is used to set the fault detection time to the fault The delay interval between the automatic recovery of the barrier.	2.0	0.1S	✓	165H
P-538	Failure during automatic reset Junction selection	0: The fault junction does not work. 1: Fault junction action output.	0	1	✓	166H
P-540	Heat dissipator is too hot Pre-warning mode	0: Turn off the over-heat pre-alarm function. 1: Alarm (OH1) and continue to run. 2: Call the police (OH1) and slow down to stop. 3: Call the police (OH1) and stop freely.	1	1	✓	168H
P-541	Cooling fan action selection	0: The fan is always closed. 1: Open the heat disperser when the temperature reaches P-542. 2: Turn on when the inverter is running. 3: Heat disperser temperature up to P-542 or variable frequency When both conditions are met, open the device. 4: The fan is open straight away.	3	1	✓	169H
P-542	Cooling fan operating temperature	45.0-80.0°C. Note: When P - 541 is set to 1 or 3, this parameter uses 60.0 0.1°C To set the temperature reference value of the dissipative heat fan.			✓	16AH
P-543	Fan shutdown delay time	0.1 seconds ~100.0 seconds When the fan is running on, turn off the condition : The delay time that is met and set by this parameter After that, the fan is closed	5.0	0.1	✓	16BH

3.7 Communication Control Group (P6 group parameters)

Code	Name	Description	Out of the factory Setting Up	Minimum Units	Changes Restrictions	Communication Address
P - 600	RS485 Communication function permissions	0: Turn off the communication function. 1: Read only mode. Writing instructions does not work. 2: Read and write mode 1. Writing to function parameters is not effective. 3: Read and write mode 2. Read instructions Write instructions are valid.	0	1	○	180H
P-601	RS485 communication local address 1~247	Note: The address number when used as a slave	1	1	○	181H
P-602	RS485 communication BOT rate	0: 1200 bps 1:2400 bps 2:4800 bps 3: 9600 bps 4:19200 bps 5: 34800 bps	3	1	○	182H
P-603	RS485 communication data format 2: 801	0: 8N1 (8-bit data, 1st place stop. There is no school inspection). 1: 8E1 (8-bit data, 1st place stop. It is found in Ecuador. 2: 8N2 (8-bit data, 1st place stop. It is found in the United States. 3: 8N2 (8-bit data, 2-bit stop. There is no school inspection). 4: 8E2 (8-bit data, 2-bit stop. It is found in Ecuador. 5: 8O2 (8-bit data, 2-bit stop. It is found in the United States.	0	1	○	183H
P-604	RS485 flight check code position	0: Check code low in front. 1: Check code high in front.	0	1	○	184H

Code	Name :	Description :	Out of the Factory Setting Up	Minimum Unit Limit	Changes Set unit Limits	Communication Address
P-605	RS485 Communication response mode	0: No response to the write command sent by the previous machine 1: Respond to the write command sent by the previous machine Note: There is no effect on the upper machine read command, there is a response Set this parameter to 0 to improve communication efficiency.	1	1	0	185H
		5 ~ 100 milli seconds Note: After receiving the data from the slave, the interval parameter is set P-606 RS485 communication response delay time, and then reply to the host response data. Example: When the processing speed of the on-site machine is not sufficient, the communication loss is caused in case of failure, you can increase the value of the setting to meet the compatibility.	16	1mS	0	186H
P-607	RS485 communication over-time Failure time	0.0 seconds ~999.9 seconds Note: When [P-600] is set to active, the slave is in this The correct frame was not received during the time when the parameter was set When the data is stored, the machine is free to stop. Report "CE" failure. Ben. When the parameter is set to 0.0 S, the over-time detection function is turned off.	0	1mS	0	186H
P-610	Preset RS485 frequency	0.00 ~650.0Hz Note: Before the RS485 communication has been established at power-up, Pre-set RS485 frequency value	0.00	0.01	✓	18AH

3.8 Process Control Group (P7 group parameters)

Code	Name	Description	Out of the Factory Changes	Set unit	Minimum Limits	Communication Address
P-700	PID function mode selection :	0: Turn off the PID function 1: Turn on the PID function 2-4: Reservation	0	1	✓	1C0H
P-702	PID given channel selection	0: Set by the [P-000] number (keyboard can be set). 1: Surface panel potentiometer 2: FV end . (Adjusted by P-203-P-207). 3: FI end . (Adjusted by P-209-P-213). 4: RS485. Note: 485 must be opened. (Group P6) 5: PLC. Note: PLC must be turned on. (PB group) 6~10: Reserved .	0	1	✓	1C2H
P-703	PID feedback channel selection	1: Panel level device . 2: FV end . (Adjusted by P-203-P-207). 3: FI end . (Adjusted by P-209-P-213). 4: RS485. Note: 485 must be opened. (Group P6) 5: PLC. Note: PLC must be turned on. (PB group) 6~10: Reserved .	3	1	✓	1C3H
P-704	PID feedback sensor measuring range	1.00 bar ~655.00bar. Note: The actual physical quantity corresponding to the full range is set . Example: Using a 4~20mA output type with a range of When the pressure sensor of 1.6 MPa is used as an input, because The full range of FI is 20mA, (because 1.6 MPa=16.00 male It is found in the United States. If you want to use MPa as a unit, enter <1.60>, if you want to use kg as a unit, enter <16.00> That is available .	10.00	0.01	✓	1C4H
P-705	PID output feature selection	0: The frequency increases when positive control target value > feedback value 1: The frequency drops when negative control target value > feedback value .	0	1	✓	1C5H
P-706	PID control ratio Gain (P)	0.01% ~2500.0% Note: When the contrast and the given deviation are found , the output and the deviation Proportional amount of adjustment, if the deviation is constant, then adjust The amount of regular adjustment can respond quickly to feedback But it can't be done to no by proportional adjustment alone. The greater the increase in the proportion of good control, the speed of adjustment of the system The faster , but if too large will appear to vibrate . Adjustment method For: First set the integral time and differential time to zero, only Use proportional adjustments to make the system run , change the given The size of the Luo, observe the feedback signal and give a fixed amount of stability Fixed deviation (static difference), if the static difference is given in a given amount The direction of change (For example, adding a given amount , the system After the stability of the feedback amount is always less than the given amount), then continue Continue to increase the proportion of gain , on the contrary, reduce the proportion of gain , Repeat the above process until the static difference ratio is small (very It's hard to do it without a static difference) can be.	500.0	0.1%	✓	1C6H
P-707	PID control points time (I)	0.00 seconds ~650.00 seconds Note: When the feedback and the given deviation occurs , the output is adjusted If the deviation persists, then adjust The amount of savings continued to increase until there was no deviation . Total Points The regulator can effectively eliminate the static difference , the integration of the regulator Too strong will promote reverse overshoot, so that the system has been unstable Until the vibration is generated, the vibration is caused by the accumulation of too strong points The swing feature is that the feedback signal is swung up and down to a given amount The swing increases step by step until it vibrates . Points Time The adjustment is generally adjusted step by step from large to small , and observe The effect of system adjustment, until system stability and adjustment The speed of the speed is achieved .	10.00	0.01S	✓	1C7H
P-708	PID preset integral amount	0.0%-100.0% In the state of shutdown sleep , PID stops adjusting the output Out . This parameter is used to set when exiting the sleep state PID starts to adjust the starting integral amount at output . Set 30.0 0.1% When 0.0, the integral value of maintaining PID before sleep is set to A fixed score value is used at 0.1-100%. Note: 100% corresponds to the maximum PID integral .			✓	1C8H
P-709	PID control micro-minute time (D)	0.00 seconds -10.00 seconds Note: When the amount of deviation changes , the output and deviation change in proportion to the amount of adjustment, the amount of adjustment is only the difference with the bias The direction of change is related to the size and size , and the deviation itself is irrelevant . The role of micro-tuning is to change the feedback signal to 0.00 0.01 S When the change is measured , it is adjusted according to the change trend , so that Suppress changes in feedback signals . Micro-regulator, please Use with caution , as the micro-regulator is easy to amplify the system Interference, especially interference with higher frequency of change .			✓	1C9H
P-710	PID deviation limit	0.0~20.0% Note: 100% of the corresponding PID is given Value . When the amount of deviation is less than the set value (deviation limit Inside) , The PID regulator stops the adjustment and keeps the output unchanged .	2.0	0.1%	✓	1CAH

Code	Name	Description	Out of the factory Setting up units	Minimum changes	Restrictions	Communication Address
P-711		20.0~100.0% Note: 100% corresponding PID is given When the value PID enters the sleep state, when the feedback amount is less than the Set the value, the PID regulator will be awakened again.	95.0	0.1%	✓	1CBH
P-712	PID output lower limit frequency	0.00 Hz ~650.0Hz Note: The minimum frequency allowed by the PID regulator . Note: The priority of P-006 is greater than the lower PID frequency.	25.00	0.01	✓	1CCH
P-714	Lower PID holding time	0.0 seconds ~6500.0 seconds When the PID regulator outputs the lower frequency time is large With this set value , the zero frequency operation state is entered .	0.5	0.1S	✓	1CEH
P-715	PID sleep detection time	0.0 seconds ~6500.0 seconds After the pressure is reached , after this time, the sleep bar will be detected If the item is satisfied, the output will stop after it is satisfied , and the input will be entered Sleep status . When the feedback value is less than P-711 is Wake up .	3.0	0.1S	✓	1CFH
P-716	PID line break detection standard	0.0-90.0% . Note: 100% corresponds to the [P-704] setting value . When the feedback value is detected less than this value, it is detected as a break line	0.0	0.1%	✓	1D0H
P-717	PID line break detection time I	1.0 ~ 6500.0 seconds . When < Wire break detection > Over-time Report after that time	30.0	0.1S	✓	1D1H

3.9 Man-machine interface group (P8 group parameters)

Code	Name	Description	Out of the factory Setting Up	Minimum changes	Unit Limit	Communication Address
P-815	Warning Message Screen Select 256: " d-C " DC brake prompt	0~65535 1: System Retention 2: "Uv1" (low voltage pre-alarm) 4: "Uv2" contactor pre-alarm 8: System Retention 16: "oH1" Over - heat warning 32: " PoC " Overcurrent warning 64: " Pov " Overvoltage pre-alarm 128: "PoT" over-torque pre-alarm 512: " 485 " read 485 pre-alarm 1024: " UrG " Emergency parking 2048: System Retention 4096: System Reservation 8192: System Reservation 16384: " EFr " run instruction error 32768: "PL" PLC reset prompt When the current parameter value is subtracted from the corresponding value, the phase can be masked Should be alerted to the warning . Note: Masking is not recommended .	65535	1	✓	20FH
P-817	Run frequency display mode	0: Display operating frequency (excluding transfer compensation frequency) ; 1: Display operating frequency including rotation compensation frequency .	0	1	✓	211H
P-818	Run Speed display mode	0: Display synchronous speed . 1: Display estimated speed . 2: Pre-reservation 3: Reservation	0	1	✓	212H
P-819	Run speed display base	10 rpm ~65530 rpm / min Note: Synchronization is generally set to the rated frequency of the motor Speed value , e.g. level 2 motor, motor rated frequency 50HZ, then enter <50HZ * 60S / 1 pole pairs 1500 >Equal to 3000 revolutions per minute . Note: This parameter does not affect the control of the motor, only for the display The value of the display is valid .		1	✓	213H
P-820	power] Output power display mode	0: The power display value is [electromagnetic 1: The power display value is [Active power] 2: The power display value is [excitation power]	0	1	✓	214H
P-833	Panel STOP key : Function selection	0: The panel is only run when the run command is run for the keyboard ; The STOP key is valid . 1: Regardless of how the command is set , the panel STOP The key has always been effective . Related parameters: P-002. P-012.	1	1	✓	221H
P-834	panel F / R key function selection	0: Panel F / R key < Positive and reverse > No effect 1: Panel F / R key < Positive and reverse rotation > effective .	0	1	✓	222H
P-835	panel JOG key function selection	0: Face panel JOG key not valid ; 1: The panel is only run when the run command is run for the keyboard The JOG key has a JOG frequency function . 2: The panel is only run when the run command is run for the keyboard The JOG key has a jog function . 3: No matter how the command is set , the panel JOG The key has always had a jog frequency function . 4: Regardless of how the command is set , the panel JOG The key has always been a jog operation function Related parameters: P-116. P-119.	0	1	✓	223H
P-837	UP/DOWN Frequency automatic bit	0 does not reset, 1 stops reset.	0	1	✓	225H
P-838	UP/DOWN Frequency increase and decrease	0.01 Hz ~650.0Hz Note: When P-840 is set , this parameter is set Each UP/DOWN command increases the setting frequency Or subtraction of the frequency value .	0.10	0.01	✓	226H
P-839	UP / DOWN frequency bias	0.00 Hz ~650.00Hz Note: The set UP / DOWN frequency subtracts this parameter After the offset frequency is set, as the actual output UP / DOWN Frequency .	0.00	0.01	✓	227H

Code	Name	Description	Default Setting Up	Minimum	Changes	Communication Start to set
P-840	UP / DOWN Frequency increase and decrease	0: Single increase or decrease is set by [P-838]. 1: Single increase or decrease is set by the panel potentiometer. 2: A single increase or decrease is set by the FV terminal. 3: Single increase or decrease is set by F (terminal Note). The UP / DOWN instruction period is 100mS. Example: Set 18 inches FV input 10V, each increase or decrease It was described by Stephan von Breuning in 1948. Input 5V0. 64Hz.	0	1	✓	228H
p-841	Operation Memory Option 1	0: Keyboard operation direction power down does not remember, 1: Keyboard operation direction power-down memory,	0	1	✓	229H
P-842	掉电记忆选择2	1: Digital keyboard frequency memory. 2: R485 communication frequency memory. 4: Multi-function parameter memory (note: PID keyboard There is a power-down memory function when setting the pressure). For example: Keyboard frequency and R485 communication frequency power down When the memory function is set to 1+2+3, it can be set to 1 + 2 + 3.	4	1	✓	22AH

3.10 Enhanced Function Group 1 (P9 group parameters)

Code	Name	Description	Default Setting Up	Minimum	Changes	Communication Address
P-900	Modbus-frequency setting Minimum response frequency	0.00 Hz ~5.00Hz Note: When the analog frequency change is less than this value, the change The ink will be ignored. Keep it the same.	0.10	0.01	✓	240H
P-901	Analog Operations Frequency base selection	0:5.12Hz. 1: 10.24 Hz. 2:20.48Hz.3: 40.96Hz. 4:81.92Hz.5:163.84 Hz. 16:327.68 Hz. 7: 655. 36 Hz Note: In < Analog quantity multiplication > And < Analog division > When running, this value is used as the frequency value and the analog magnitude of the value Between the conversion criteria. When the actual operation frequency exceeds the When setting the value, the calculation result may overflow the frequency Too large a value will reduce the accuracy of the operation.	4	1	✓	241H
P-902	Frequency calculation Number of operations 1 Select	0: Keyboard frequency setting. 1: Surface panel potentiometer. 2: FV end . (Adjusted by P-203-P-207). 3: The end of the sub . (Adjusted by P-209-P-213). 4: RS485. Note: 485 must be opened. (Group P6). 5: PLC. Note: PLC must be turned on. (PB group). 6: PID. Note: PID must be turned on. (Group P7). 7: Pulse setting note: Must be opened (PA group). 8~10: Retention.	0	1	✓	242H
P-903	Frequency calculation Number of operations 1: Series	1.0%~200.0% This parameter sets the P-902< Frequency operation 10.0 0.1% Number 1> The ratio system of enlargement / reduction.			✓	243H
P-904	Frequency operator selection	0: (P-902 select * P-903 coefficient) as Results; 1: + (frequency plus method). 2: - (frequency reduction method). 3: * (Analog quantity multiplication). 4: / (analog quantity division). 5: MAX (frequency takes a large value). 6: MIN (FREQUENCY takes a small value). Note: Addition and subtraction operations are frequency-level operations. This P-202 and P-208 participate in the operation.	1	1	✓	244H
P-905	Main sequence calculation Number of actions 2 Select	0: Keyboard frequency setting. 1: (Panel level device). 2: FV terminal P-203-P-207 adjustment). 3. (Police P-209 -- p-213/ week). 4: RS485. Note: Wine open 485. (Group P6). 15: PLC. Note: PLC must be turned on. (PB group). 6: PID. Note: PID must be turned on. (Group P7). 7: Pulse setting note: Must be opened (PA group). 8-10: Retention.	1	1	✓	245H
P-906	Main sequence calculation Number of operations 2 series	1.0%~200.0% This parameter is set to P-905< Frequency operation 100.0 0.1% Number 2> The ratio system of enlargement / reduction.			✓	246H
P-907	Supplementary frequency calculation Function selection	0: Operation between primary and secondary frequencies is closed . 1: Clocked frequency + auxiliary frequency. 2: Clocking frequency - auxiliary frequency 3: Auxiliary frequency - Clocked frequency . 4: Pre-reservation . 5: MAX (main and auxiliary frequency take a large value). 6: MIN (primary and secondary frequency take a small value).	0	1	✓	247H
P-908	Frequency calculation Number of operations 1 series	0~10. Refer to P-902 settings.	2	1	✓	248H
P-909	Auxiliary pass rate calculation Number of operations 1 series	1.0%~200.0%. Refer to P-903 Settings.	100.0	0.1%	✓	249H
P-910	Supplementary trouble rate operator selection	0~6. Refer to P-904 settings.	1	1	✓	24AH
P-911	Auxiliary frequency calculation Number of actions 2 Select	0~10. Refer to P-905 Settings	3	1	✓	24BH
P-912	Supplementary frequency calculation Number of operations 2 series	1.0%~200.0 % Refer to P-906 settings.	100.0	0.1%	✓	24CH
P-914	Swing frequency amplitude	0.0%~100.0% Note: When this parameter is set to 0, the swing frequency function is not effective.	0.0	0.1%	✓	24EH
P-915	Burst frequency amplitude	0.0%~50.0%	5.0	0.1%	✓	24FH
P-916	Swing frequency rise time	0.1 seconds ~6500.0 seconds	5.0	0.1S	✓	250H
P-917	Swing frequency drop time	0.1 seconds ~6500.0 seconds	5.0	0.1S	✓	251H
P-919	2nd Speed Plus / Minus Time Switching frequency	0.00 Hz ~650.0Hz Note: This value is valid if it is greater than the start frequency. When running When the frequency is greater than the parameter value, the addition and subtraction time is self - Moving switch. If any other than the 1st plus or minus speed. This function is not effective when the command or swing frequency is running.	0.00	0.01	✓	253H
P-920	3rd Speed Plus / Minus Time Switching frequency		0.00	0.01	✓	254H
P-921	4th Acceleration and Deceleration Time Switching frequency	Multiple switches The following conditions must be followed at frequency points: - P-919	0.00	0.01	✓	255H

Code	Name	Description	Default Setting Up	Minimum	Changes	Communication Address
Set unit Limits						
P-936	Vertical control frequency Drop rate	0.00 ~20.00Hz The corresponding down-regulation frequency of the motor when the torque is rated , When set to, the next reset function is turned off .	0.00	0.01	✓	264H
P-937	Lower interest control start annoyance rate	0.50 -200.00Hz When the actual operating frequency is less than this parameter, set the frequency 5.00 0.01 The sagging function does not work ,			✓	265H
P-938	Vertical controlled torque threshold	0.0%~100.0% This parameter is 100% corresponding to the rated torque of the motor When the actual output torque is less than this parameter, set the action At the threshold , the vertical function does not operate .	20.0	0.1%	✓	266H
P-941	Analog quantity setting torque benchmark	10.0%~1000.0% When using the analog amount as the torque setting source , this parameter When the number is used to set the maximum analog input, the corresponding Torque setting value (100% rated torque).	200.0	0.1%	✓	269H
P-942	Electro torque command source	0: [P-518] value as torque command 1: Panel level setting 2: FV terminal setting 3: FI terminal setting 4: RS485 communication settings (reserved)	0	1	✓	26AH
P-943	Regenerative torque Command Source	0: [P-519] value as torque command 1: Panel level setting 2: FV terminal setting 3: FI terminal setting 4: RS485 communication settings (reserved)	0	1	✓	26BH

3.11 Enhanced Function Group 2 (PA group parameters)

Code	Name	Description	Default Setting Up	Minimum changes Unit Limit		Communication Address
P-A01	Pulse input control mode	0: Turn off the pulse function 1: Turn on pulse frequency function 2: Retention 3: Retention 4: Retention	0	1	✓	281H
P-A02	Pulse-given frequency standard	1.0-6000.0 times When the pulse is turned on to give a fixed frequency function , this parameter is set The frequency of the input of the pulse terminal and the set frequency The ratio of the relationship between. For example: Set this parameter value to 100.0 times, when the terminal When the input pulse is 6000Hz, the pulse is set The frequency of 6000/100: 0 = 60.00 Hz	100.0	1	✓	282H

3.12: The program runs the basic group (PB group parameters)

Code	Name	Description	Default Setting Up	Minimum changes Set unit Limits		Communication Address
P-B00	PLC control mode selection	0: No PLC function (PLC is disabled) 1: Internal timer mode of PLC system . 2: PLC terminal control timer mode , 3: PLC terminal sub-pulse meter number mode .	0	1	✓	2C0H
P-B01	PLC operating range setting example: set to 6, then the 6th stage of operation is completed, until Return to phase 1 to continue operation	1~16	16	1	✓	2C1H
P-B02	PLC cycle times Set 1~59999: Cycle N: Stop after pass . 60000: A straight loop .	10: Not cyclical After one run, the aircraft was stopped .	60000	1	✓	2C2H
P-B03	PLC start stage setting example: If you need to start running from paragraph 3, then Set this parameter value to 3 .	1~16	1	1	✓	2C3H
P-B04	The PLC end remains set to 0: Stop after the number of cycles is reached . 1~16: Keep the paragraph after the number of cycles is reached	0~16	0	1	✓	2C4H
P-B06	PLC timing unit selection	10: In seconds the clock > for units . 1: To < Minutes > for units .	0	1	✓	2C6H
P-B07	PLC counting Frequency multipliers	1~65535	1	1	✓	2C7H
P-B08	PLC monitoring project selection	0: Monitor PLC operation phase . 1: Monitor the number of times the PLC has been cycled . 2: Monitor the operation time of the PLC in this stage . 3: Monitor PLC this stage has stopped time .	0	1	✓	2C8H
P-B16	program run time 1. Operating frequency	0.00 Hz ~650.0Hz	5.00	0.01	✓	2D0H
P-B17	program run time 2. Operating frequency		5.00	0.01	✓	2D1H
P-B18	program run time 3. Operating frequency		5.00	0.01	✓	2D2H
P-B19	program run time 4. Operating frequency		5.00	0.01	✓	2D3H
P-B20	program run time 5. Operating frequency		5.00	0.01	✓	2D4H
P-B21	program run time 6. Operating frequency		5.00	0.01	✓	2D5H
P-B22	program run time 7. Operating frequency		5.00	0.01	✓	2D6H
P-B23	program run time 8. Operating frequency		5.00	0.01	✓	2D7H
P-B24	program run time 9. Operating frequency		5.00	0.01	✓	2D8H
P-B25	program run time 10. Operating frequency		5.00	0.01	✓	2D9H

Code	Name	Description	Default Setting Up	Minimum Change	Unit Limit	Communication Address
P-B26	program run time 11. Operating frequency		5.00	0.01	✓	2DAH
P-B27	program run time 12. Operating frequency		5.00	0.01	✓	2DBH
P-B28	program run time 13. Operating frequency		5.00	0.01	✓	2DCH
P-B29	program run time 14. Operating frequency		5.00	0.01	✓	2DDH
P-B30	program run time 15. Operating frequency		5.00	0.01	✓	2DEH
P-B31	program run time 16. Operating frequency		5.00	0.00	✓	2DFH
P-B32	program run time 1. Running Time	0.0 seconds ~6000.0 seconds	5.0	0.1S	✓	2E0H
P-B33	program run time 2. Running Time		5.0	0.1S	✓	2E1H
P-B34	program run time 3. Running Time		5.0	0.1S	✓	2E2H
P-B35	program run time 4. Running Time		5.0	0.1S	✓	2E3H
P-B36	program run time 5. Running Time		5.0	0.1S	✓	2E4H
P-B37	program run time 6. Running Time		5.0	0.1S	✓	2E5H
P-B38	Program run time 7. Running Time		5.0	0.1S	✓	2E6H
P-B39	program run time 8. Running Time		5.0	0.1S	✓	2E7H
P-B40	program run time 9. Running Time		5.0	0.1S	✓	2E8H
P-B41	program running time 10. Running Time		5.0	0.1S	✓	2E9H
P-B42	program run time 11. Running Time		5.0	0.1S	✓	2EAH
P-B43	program run time 12. Running Time		5.0	0.1S	✓	2EBH
P-B44	program run time 13. Running Time		5.0	0.1S	✓	2ECH
P-B45	program run time 14. Running Time		5.0	0.1S	✓	KEDH
P-B46	program run time 15. Running Time		5.0	0.1S	✓	2EEH
P-B47	program run time 16. Running Time		5.0	0.1S	✓	2EFH
P-B48	program run time 1. Stop Time	0.0 seconds ~6000.0 seconds	5.0	0.1S	✓	2F0H
P-B49	program run time 2. Stop Time		5.0	0.1S	✓	2F1H
P-B50	program run time 3. Stop Time		5.0	0.1S	✓	2F2H
P-B51	program run time 4. Stop Time		5.0	0.1S	✓	2F3H
P-B52	program run time 5. Stop Time		5.0	0.1S	✓	2F4H
P-B53	program run time 6. Stop Time		5.0	0.1S	✓	2F5H
P-B54	program run time 7. Stop Time		5.0	0.1S	✓	2F6H
P-B55	program run time 8. Stop Time		5.0	0.1S	✓	2F7H
P-B56	program run time 9. Stop Time		5.0	0.1S	✓	2F8H
P-B57	program run time 10. stop time		5.0	0.1S	✓	2F9H
P-B58	Program run time 11, stop time		5.0	0.1S	✓	2FAH
P-B59	Program run time 12, stop time		5.0	0.1S	✓	2FBH
P-B60	program run time 13. Stop Time		5.0	0.1S	✓	2FCH
P-B61	program run time 14. Stop Time		5.0	0.1S	✓	KFDH
P-B62	program run time 15. Stop Time		5.0	0.1S	✓	2FEH
P-B63	program run time 16. Stop Time		5.0	0.1S	✓	2FFH

3.13 Program Operation Support Group (PC group parameters)

Code	Name	Description	Default Setting Up	Minimum Units	Changes Restrictions	Communication Address
P-C00	time period 1. Acceleration and deceleration time selection and direction	10~40 Note: Ten-bit and one-bit control respectively . 10-bit: Speed plus / minus time selection 1x: Use the 1st addition and deceleration time 2x: Use the 2nd plus and minus time . 3x: Use the 3rd plus and minus speed time . 4x: Use the 4th plus and minus time . A bit: The direction of operation of the motor . Even number : for forward operation Odd number: Run for reverse x0.x2.x4.x6.x8: Forward x1.x3.x5.x7.x9: Reverse direction . Example: Need to use the 2nd speed plus and minus time And run in the reverse direction, you can set a value of 21 that is Available in addition 21=23=25=27=29 The effect is the same .	10	1	✓	300H
P-C01	Time period 2. Acceleration and deceleration time selection and direction		10	1	✓	301H
P-C02	Timeslot 3. Acceleration and deceleration time selection and direction		10	1	✓	302H
P-C03	Timeslot 4. Acceleration and deceleration time selection and direction		10	1	✓	303H
P-C04	Timeslot 5. Acceleration and deceleration time selection and direction		10	1	✓	304H
P-C05	Time period 6. Acceleration and deceleration time selection and direction		10	1	✓	305H
P-C06	Timeslot 7. Acceleration and deceleration time selection and direction		10	1	✓	306H
P-C07	Timeslot 8. Acceleration and deceleration time selection and direction		10	1	✓	307H

Code	Name	Description	Minimum Setting Up	Minimum Units	Changes Residuals	Communication Address
P-C08 Timeslot 9. Acceleration and deceleration time selection and direction			10	1	✓	308H
P-C09 time period 10. Acceleration and deceleration time selection and direction			10	1	✓	309H
P-C10 time period 11. Acceleration and deceleration time selection and direction			10	1	✓	30AH
P-C11 time period 12. Acceleration and deceleration time selection and direction			10	1	✓	30BH
P-C12 time period 13. Acceleration and deceleration time selection and direction			10	1	✓	30CH
P-C13 time period 14. Acceleration and deceleration time selection and direction			10	1	✓	30DH
P-C14 time period 15. Speed up and down time选择和方向			10	1	✓	30EH
P-C15 time period 16. Acceleration and deceleration time selection and direction			10	1	✓	30FH
P-C16 program run time 1. Counting Objectives :		0-65000	500	1	✓	310H
P-C17 Program run time 2. Counting Objectives			500	1	✓	311H
P-C18 Program run time 3. Counting Objectives			500	1	✓	312H
P-C19 Program run time 4. Counting Objectives ;			500	1	✓	313H
P-C20 Program run time 5. Counting Objectives ;			500	1	✓	314H
P-C21 Program run time 6. Counting Objectives ;			500	1	✓	315H
P-C22 program run time 7. Counting Objectives			500	1	✓	316H
P-C23 program run time 8. Counting Objectives ;			500	1	✓	317H
P-C24 program run time 9. Counting Objectives :			500	1	✓	318H
P-C25 Program run time 10. Counting Objectives ;			500	1	✓	319H
P-C26 Program run time 11. Counting Objectives			500	1	✓	31AH
P-C27 Program run time 12. Counting Objectives			500	1	✓	31BH
P-C28 Program Run Time 1.3. Counting Objectives			500	1	✓	31CH
P-C29 Program run time 14. Counting Objectives ;			500	1	✓	31DH
P-C30 program run time 15. Counting Objectives ;			500	1	✓	31EH
P-C31 program run time 16. Counting Objectives :			500	1	✓	31FH

4. Fault Information and Exclusion Methods :

Fault Code	Fault Type	Possible causes of failure		Policy
UV1	DC bus line low voltage	Low power grid voltage		Check the grid input power supply
		Internal fault of the frequency converter		Search for Services
UV2	Contact suction failure	Contactor failure :		Please change the contact
OV	DC bus line over voltage	High power grid voltage		Check the grid input power supply
		Internal fault of the frequency converter		Search for Services
EOV	Overvoltage protection circuit abnormalities	Overvoltage protection circuit abnormalities		Please check the overvoltage protection circuit
				Search for Services
OC	Output overcurrent :	Speed up.	- It's too fast.	Increase acceleration time
			Low power grid voltage	Check the input power supply
		Slow down.	Frequency converter power is small	Choose a converter with a large power level
			Slow down too fast.	Increase speed reduction time
			Large load inertia torque	Add the appropriate energy brake components
		Constant speed	Frequency converter power is small	Choose a converter with a large power level
			Load mutations or anomalies	Detect load or reduce load mutations
			Low power grid voltage	Check the input power supply
			Frequency converter power is small	Choose a converter with a large power level
			Output short circuit	Check whether the motor and cable are green and good
OCV	Over current at the same time over voltage	Cause of OC failure		OC Fault policy
		Speed up.	Input voltage abnormalities	Check the input power supply
			After the power is stopped instantly, the rotation is in Motor implementation and re-start	Avoid stopping and start again
		Slow down.	Slow down too fast.	Reduce speed reduction time
			Large load inertia	Drive components for increased energy consumption
			Input voltage abnormalities	Check the input power supply
		Constant speed	Abnormal changes in the input voltage	Installation of an input reactor
			High load inertia	外加Suitable energy-efficient braking components
GF	Output ground failure	Connection error		Yes, according to the manual instructions, more positive connection error
		Motor abnormalities		To replace the motor, you need to test the ground insulation first
		Inversion module anomalies		Search for Services
		The output side of the converter is too large to ground leakage current		Search for Services
		Power grid fluctuation or instant shutdown		Check the power supply of the local electricity network

Fault Code	Fault Type	Possible causes of failure	Policy
Err	Hardware Protection ; Circuit abnormalities	Hardware protection module abnormalities ;	Search for Services
OL1	Motor overload	Grid voltage is too low	Check the voltage of the electric grid ;
		Motor rated current setting is not correct ;	Reset the motor rating current
		Motor stall or load mutation is too large ;	Check the load , adjust the torque lift
		Motor power does not match ;	Select the right motor
OL2	Input phase missing ;	Its accelerating too fast ;	Increase acceleration time
		Re - start the motor in rotation	Super stop-free and start again
		Grid voltage is too low ;	Check the voltage of the electric grid ;
		Load is too large	Select a higher power converter
SPi	Frequency converter overload	Inverter power termination line abnormalities , Missed or broken wire ;	Check the power connection condition in accordance with operating rules (exclusion) Leakage, disconnection
		Three-phase input power supply is severely unbalanced	Check the three-phase imbalance of the input power supply Yes No Meet the requirements
		Inverter capacitor aging	Search for Services
		Inverter power-on buffer circuit abnormalities ;	Search for Services
Spa	Output phase missing	The output of the three-phase is severely unbalanced	Check whether the motor is complete , power off check Converter output side and DC side terminal Sex is not the same
		Inverter output side connection abnormalities , Missed or broken wire	Check the output side connection condition according to the operating rules , Eliminate leakage and breakage ;
PUF	Fast road failure	Fast grid open circuit circuit abnormalities	Search for Services
LH1	Heat spreader low temperature ;	Heat disperser module abnormalities	Search for Services
CT1	U-phase zero current bias	Three-phase imbalance	Check the output side connection ;
		Current detection circuit damage	Search for Services
CT2	V-phase zero current bias	Three-phase imbalance	Check the output side connection ;
		Current detection circuit damage	Search for Services
CT3	W phase zero current deviation	Three-phase imbalance ;	Check the output side connection ;
		Current detection circuit damage	Search for Services
EF1	External Input Fault 1	External fault input terminal action	检查外部设备输入
EF2	External Input Fault 2	External fault input terminal action	Check external device inputs
EF3	External Input Fault 3	External fault input terminal action	Check external device inputs
EF4	External Input Fault 4	External fault input terminal action	Check external device inputs
PID	PID wire break fault	PID feedback line break	Check the PID feedback signal line
		PID feedback source loss	Check the PID feedback source ;
CE	Communication over-time fault	Bot rate is not set properly	Set the appropriate baud rate
		Communication errors using serial communication	Press the STOP key to reset the position, seeking service
		Long time interruption of communication ;	Check the communication interface wiring
brr	Brake unit failure ;	Braking unit power is too small	Increase the power of the braking unit
		The load exceeds the brake bearing capacity ;	Increase brake bearing load capacity ;
		Brake due to dust and other reasons, but not good excessive heat damage ;	Exclusion of external interference factors ;
		Internal short circuit damage due to conductive dust	Search for Services
SC	Output short circuit failure	Connection error	Yes, according to the manual instructions, more positive connection error
		Motor abnormalities	To replace the motor , you need to test the ground insulation first
		Inversion module anomalies	Search for Services
		The output side of the converter is too large to ground leakage current	Search for Services
		Power grid fluctuation or instant shutdown ;	- Check the power supply of the local electricity network
OH2	Heat dissipator is too hot ;	Ambient temperature is too high	Reduce ambient temperature , strengthen ventilation , dissipate heat
		Wind resistance plug ;	Clean air duct dust , cotton and other miscellaneous objects
		Fan anomalies	Check whether the fan power cable is connected
			Change the same type of fan
		Inversion module anomalies	Search for Services
		Temperature detection circuit failure	Search for Services
TF1	Self-learning Defeats 1< Phase Anomaly >	Electrical wiring abnormalities	Check the motor connection, parameter settings
TF2	Self-learning Defeats 2< Parameter overflow > The deviation from the standard parameter from the self-learned parameter is too large		Make the motor no-load , re-identify
TF3	Self-learning Defeats 3< Parameter instability >	Motor rated parameters are not set properly	Set the parameters according to the name of the machine