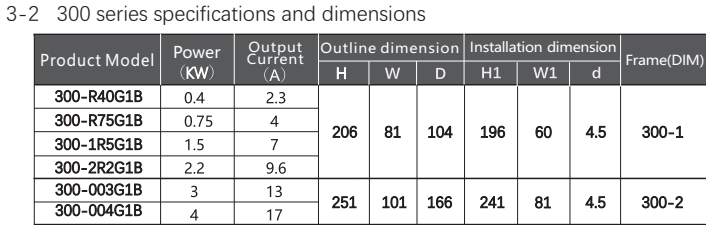


. Basic Information

[illegible]

3-1 300 series Shape



4. VFD control loop connection

4-1 Schematic diagram of the main circuit terminal of the 300 series



Terminal Name	Specification	Function Description
X1~X6	Digital Input	1.Digital: >DC19V ,the terminal function select the PNP. <DC14V ,the terminal function select the PNP. 2.Input Voltage range: 0~30V 3.Input Impedance: 3.6KΩ 4.X3 set input pulse range:0~100KHz

5-1 Keyboard tray shape and dimensions

5-2 operation panne



5-4 Start and Stop by button on pane

1. Press the RUN button to start and FOR / REV indicator lighting;
2. Adjust output power by rotate shift key;
3. Press stop button to stop converter;
4. If need to REV,set the program P00-17 as REV operation valid;

5-5 Start and stop by input digit

Action Process:



Warning	Error Code	Error name	Solution
-	E.01	Output short circuit	Check motor connection \motor wire and motor insulation situation
A.02	E.02	Accelerated over current	1.Increase the acceleration time 2.Improve torque by hand 3.Exclude outside faults 4.Exclude outside faults 5.Choose speed tracking start or stop and start 6.Cancel exploding load Choose a bigger power frequency converter
A.03	E.03	Decelerated over current	1.Exclude outside faults 2.Make motor parameter learn self 3.Add speed cut time 4.Cancel exploding load or add braking unit and resistor 5.Add braking unit and resistor
A.04	E.04	Constant over current	1.Exclude outside faults 2.Make motor parameter learn self 3.Cancel exploding load 4.Choose a bigger power frequency converter
A.05	E.05	Accelerated over voltage	1.Check power adjust voltage to normal range 2.Increase the acceleration time. 3.Cancel exploding load 4.Choose a bigger power frequency converter
A.06	E.06	Decelerated over voltage	1.Adjust voltage to normal range 2.Cancel exploding load or add braking unit and resistor 3.Add speed cut time 4.Stop free
A.07	E.07	Constant over voltage	1.Adjust voltage to normal range 2.Cancel exploding load or add braking unit and resistor 3.Choose a bigger power frequency converter
A.09	E.09	Under-voltage	Ensure the normal power grid voltage
A.10	E.10	Converter overload	1.Choose bigger power product 2.set up correctly according to motor nameplate
A.12	E.12	Input lock of PH	Check connection of input power wire
-	E.13	Motor lock of PH	1.check motor connector 2.check motor
A.14	E.14	IGBT excess temperature	1.clean air duct 2.change fan
-	E.16	Internal Warning	Return to factory maintenance
-	E.19	Motor parameter self learning failure	Set up motor nameplate parameter correctly
-	E.23	Grounded warning	1.motor for short circuit 2.change motor wire or change motor
A.24	E.24	Torque limitation	Set up motor digital correctly or adjust P09.04 digital
A.25	E.25	Current limitation	Set up motor digital correctly or adjust P09.05 digital
A.27	E.27	Eternal warning	Set up terminal digital correctly
A.31	E.31	Feedback warning	Check feedback wire or feedback source
A.45	E.45	Motor Overload	1.Choose bigger power product 2.set up correctly according to motor nameplate
A.46	E.46	High-voltage warning	Check hydraulic pressure or pressure gauge
A.47	E.47	Low-voltage warning	Check whether leak water or air leak
-	E.48	Total work time to failure	Reset parameter to clean recorded information
-	E.88	Control board and drive board communication abnormal	Return to factory maintenance
-	E.89	Button using forbidden	Set P10.01/P10.02/P10.04 digital according to current situation
	E.91	Parameter error	Not according to stipulations set parameters correctly
	E.92	Parameter ultralimit	Not according to stipulations set parameters correctly
A.95	E.95	Power warning	Check network voltage
A.96	E.96	Wire break warning	Check terminals whether analog connection wire and signal normal
A.97	E.97	Communication control overtime	1.Check master computer program 2.Check communication wire connection 3.Correctly set communication parameter 4.Using shielding line
-	E.98	Reset factory setting	Press STOP button to reset
-	E.99	Open braking resistor to brake	Set P00.72 digital according to current situation
-	E.100	Drive voltage warning	Reserved
-	E.101	Rotor locked	Synchronous motor stalling
The above action not solve warning please ask for technical support			

P00-P11 Function Parameter

P00 Function Parameter	
P00.01 Control model	
0: VF control	
* 1: Vector control	
P00.02 Option of order source	
* 0: Order channel of panel	
1: Order channel of terminal	
2: Order channel of communication	
3: Order channel of communication or terminal	
P00.03 Main frequency source X option	
0: Digital set	
2: VI	
3: AI (reserved)	
* 4: Panel coder	
5: Input pulse	
6: Order of multi-speed	
7: Simple PLC	
8: PID	
9: Communication given	
P00.04 Assistant frequency source Y option	
* 0: Digital set	
2: VI	
3: AI (reserved)	
4: Panel coder	
5: Input pulse	
6: Order of multi-speed	
7: Simple PLC	
8: PID	
9: Communication given	
P00.05 Option range of assistant frequency source Y	
* 0: Relative maximum frequency	
1: Relative main frequency source X	
P00.06 Range of assistant frequency source	
0~200%	* 100
P00.07 Biased frequency of assistant frequency source Y	
0~P0.10	* 0
P00.08 Option of main frequency operation	
Decade:relation of main and assistant source operation	
* 0: Main+assistance	
1: Main -assistance	
2: Maximum	
3: Minimum	
Unit:Option of main frequency operation	
* 0: Main frequency source X	
1: Result of main and assistant frequency operation (relations determined by decade)	
2: Main frequency source X switch with assistant frequency Y	
3: Main frequency source X switch with result of main and assistant frequency operation	
4: Assistance frequency Y switch with result of main and assistant frequency operation	
P00.09 Preset reference	
-100%~100%	* 0
P00.10 Maximum frequency	
0~655.35Hz	* 50
P00.12 Limited frequency	
0~P00.10	* 50
P00.14 Floor frequency	
0~P00.10	* 0
P00.15 Below floor frequency operation model	
* 0: Floor frequency operation	
1: Motor stop	
2: No speed operation	
P00.16 Rotation Direction Selection	
* 0: default direction	
1: opposite default direction	
P00.17 Forbid REV	
0: Invalid	
* 1: Valid	

P00.20 Time accuracy 0: 1s * 1: 0.1s 2: 0.01s P00.22 Speed up time 1 0-65535s * 10 P00.23 Speed cut time 1 0-65535s * 10 P00.25 Speed up time 2 0-65535s * 10 P00.26 Speed cut time 2 0-65535s * 10 P00.28 Speed up time 3 0-65535s * 10 P00.29 Speed cut time 3 0-65535s * 10 P00.31 Speed up time 4 0-65535s * 10 P00.32 Speed cut time 4 0-65535s * 10 P00.33 Speed up time 1and2 switch frequency 0-650.00Hz * 0 P00.34 Speed cut time 1and2 switch frequency 0-650.00Hz * 0 P00.40 UP/DOWN memory option of power down * 0: No 1: Yes P00.41 Whether UP/DOWN have memory * 0: No 1: Yes P00.42 Running frequency UP/DOWN basic * 0: Operation frequency 1: Setting frequency P00.43 UP/DOWN Value 0.01-100.00Hz * 0.1 P00.44 Hopping frequency 0-P00.10 * 0 P00.45 Hopping frequency 2 0-P00.10 * 0 P00.46 Fabric width of Hopping frequency 0-P00.10 * 0 P00.47 Inching frequency 0-P00.12 * 5 P00.48 Acceleration time of inching 0-65535s (connect with P00.20) * 10 P00.49 Inching speed cut time 0-65535s (connect with P00.20) * 10 P00.50 Emergency stop speed cut time 0-65535s (connect with P00.20) * 10 P00.60 Delayed start time 0-100s * 0 P00.61 Delayed start function 0: DC clamping * 2: Free revolve P00.62 Frequency tracking start * 0: Invalid 1: Valid P00.63 Minimum start frequency setting value 0-50Hz * 0 P00.64 Minimum operation frequency 0-20Hz * 0 P00.65 PM Start Mode 0: Initial position detection of start * 1: Start with magnet P00.66 Power down start delayed 0-3600S * 0 P00.70 DC clamping current 0-150% * 50 P00.71 Shutdown braking current 0-150% * 50	P00.72 Shutdown braking time 0-60s * 0 P00.73 Cut-over frequency run out brake 0-500Hz * 0 P00.74 Current synchronous motor start to magnet 0-150% * 80 P00.75 Time synchronous motor start to magnet 0.1-60s * 3 P00.80 Motor sop function * 0: Free to stop motor 1: DC clamping P00.81 Mininum stop frequency 0-400Hz * 0 P01 Motor Parameter P01.00 Motor type * 0: Asynchronous Motor 1: SMT Asynchronous Motor 2: Unsaturated internal synchronous motor 3: Saturated internal synchronous motor P01.01Motor Power Depend on motor digital P01.02Motor Voltage Depend on motor digital P01.03Motor Frequency Depend on motor digital P01.04Motor Current Depend on motor digital P01.05 Motor Speed Depend on motor digital P01.06 Rated Motor Torque Depend on motor digital P01.07 Stator Resistance (Rs) Depend on motor digital P01.08 Rotor Resistance(Rr) Depend on motor digital P01.09 Stator Leakage Reactance Depend on motor digital P01.10 Main Reactance (Xh) Depend on motor digital P01.11 D-axis Inductance Depend on motor digital P01.12 Q-axis Inductance Depend on motor digital P01.13 Motor Poles 2-100 * 4 P01.14 Counter electromagnetic force 5-9000 *Depend on motor digital P01.15 D-axis Inductance Sat 0-655.36 *Depend on motor digital P01.16 Q-axis Inductance Sat 0-655.36 *Depend on motor digital P01.17 D-axis Inductance Sat switchover 0-655.36 *100 P01.18 Q-axis Inductance Sat switchover 0-655.36 *100 P01.20 System Inertia 0-65.535 *Depend on motor digital	P01.37 Automatic Motor Adaption * 0: Invalid 1: All parameter learn self 2: Stator resistance learn self P02 Method of control P02.00 V/F Characteristic setting * 0: Straight line V/F 1: Reserved 2: Reserved 3: Reserved 4: Reserved 5: Reserved 6: Reserved 9: Reserved P02.01 V/F torsional moment promotion 0-30% * 0 P02.02 V/F torsional moment promotion stop frequency 0-655.35Hz * 50 P02.03 Frequency point of multi-V/F 1 0.00Hz-P02-05 * 0 P02.04 Voltage point of multi-V/F 1 0.0%-100.0% * 0 P02.05 Frequency point of multi-V/F 2 0.00Hz-P02-07 * 0 P02.06 Voltage point of multi-V/F 2 0.0%-100.0% * 0 P02.07 Frequency point of multi-V/F 3 0.00Hz-P02-09 * 0 P02.08 Voltage point of multi-V/F 3 0.0%-100.0% * 0 P02.09 Frequency point of multi-V/F 4 0.00Hz-P02-12 * 0 P02.10 Voltage point of multi-V/F 4 0.0%-100.0% * 0 P02.11 Frequency point of multi-V/F 5 0.00Hz-P01.03 * 0 P02.12 Voltage point of multi-V/F 5 0.0%-100.0% * 0 P02.15 V/F separate voltage source * 0: Number setting (P02-16) 1: V1 2: AI 4: Input pulse 5: Multi-speed 6: Simple PLC 7: PID,closed loop process 8: Communication P02.16 V/F separate voltage setting 0V-motor specific voltage * 0 P02.17 V/F separate time of voltage rising 0-1000s * 0 P02.18 V/F separate time of voltage decline 0-1000s * 0 P02.19 V/F separate option of stop motor * 0: Frequency voltage reduced to 0 independently 1: Frequency reduce after voltage reduced to 0 P02.20 Automatic voltage regulation function 0: off * 1: on P02.30 Low frequency compensation torques 0-199% * 100
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P02.31 High frequency compensation torques 0-199%*100 P02.32 Slip Compensation -400~399%*80 P02.33 Slip Compensation Time Constant -400~399%*0.1 P02.34 Resonance Dampening 0-3000%*50 P02.35 Resonance Dampening Ttime Constant 0.001-0.05s*0.005 P02.36 Open Magnetisation 0-300%*100 P02.37 Normal Magnetisation Switch point 0-10*1 P02.38 Open Torque compensation 0-25%*0 P02.40 Synchronous motor low speed compensation 0-120%*80 P02.41 Synchronous motor load compensation 0-500%*120 P02.42 Low speed synchronous motor compensation filtering time 0.01-20s*0.8 P02.43 High speed synchronous motor compensation filtering time 0.01-20s*0.8 P02.44 Synchronous motor current filtering time 0.001-1s*0.5 P02.45 Synchronous motor high-speed compensation -400~400%*10 P02.50 Torque type *0: Constant torque 1: Djustable torque 3: Optimize torque P02.51 Adjust adjustable torque 40-90%*90 P02.52 Automatic optimum energy consumption minimum flux 40-75%*66	20: Open pulse 21: Pulse REV 22: Start counterclockwise only 23: Frequency source switch 24: Frequency source switch 32: Order source switch1 33: Order source switch2 34: Outside failure 35: Counter A (plus) 37: Counter A reset 38: Counter B (plus) 40: Counter B reset 41: PID pause 42: PID opposite direction 43: PID Integral to suspend 44: PID parameter switch 45: PLC reset condition 46: Input high-speed pulse(DI3) P03.05 Terminal DI 2 Input Parameter as P03.04 *2 P03.06 Terminal DI3 Input Parameter as P03.04 *14 P03.07 Terminal DI4 Input Parameter as P03.04 *15 P03.08 Terminal DI 5 Input Reserve P03.09 Terminal DI 6 Input Reserve P03.10 Terminal DI 3 Input min frequency 0-99.99kHz*0.02 P03.11 Terminal DI Input max frequency 0.01-100kHz*50 P03.12 Terminal DI 3 Input min corresponding reference/feedback value -200~-+200%*0 P03.13 Terminal DI 3 Input max corresponding reference/feedback value -200~-+200%*100 P03.14 Terminal DI 3 Filtering time 1-1000ms*100 P03.20 Interrupt signal detection time 1-99s*10 P03.21 Interrupt signal action *0: Invalid 1: Current 2: Stop 3: Inching running 4: Running with MAX frequency 5: Stop then warning P03.30 Terminal VI Model *0: Voltage 1: Current P03.31 Terminal VI Min current 0-9.99V*0.07 P03.32 Terminal VI Max current 0.01-10V*10 P03.33 Terminal AI Minimum 0-19.99mA*0.14 P03.34 Terminal AI Maximum 0.01-20mA*20 P03.35 Terminal VI Min reference/feedback value -200~200%*0 P03.36 Terminal VI Max reference/feedback value -200~200%*100 P03.37 Terminal VI Filtering time 0.001-10s*0.01 P03.38 Terminal VI Zero Dead Band 0-20V/mA*0 P03.40 Terminal AI Model(Reserved) 0: Voltage *1: Current P03.41 Terminal AI Min voltage 0-9.99V (Reserved) P03.42 Terminal AI Max voltage 0.01-10V (Reserved) P03.43 Terminal AI Minimum 0-19.99mA (Reserved) P03.44 Terminal AI Maximum 0.01-20mA (Reserved)	P03.45 Terminal AI Min reference/feedback value -200~200% (Reserved) P03.46 Terminal AI Max reference/feedback value -200~200% (Reserved) P03.47 Terminal AI Filtering time 0.001-10s (Reserved) P03.48 Terminal AI Zero Dead Band 0-20V/mA (Reserved) P04 Output Terminals P04.00 Relay 1 Function 0: Invalid 1: Running *2: Fault output 3: Frequency horizontal detect FDT1 output 4: Frequency arrived 5: 0speed running 6: Motor overload protection 7: Converter overload protection 8: Counter A arrived 9: Counter B arrived 10: Length arrived 11: PLC circulation 12: Total power on time arrived 13: Frequency limiting 14: Torque limiting 15: Converter ready 16: All bigger than AI2 17: Limited frequency arrived 18: Floor frequency arrived 19: Under-voltage condition output 20: Communication set 21: Position approaching 22: Completed to Locate 23: 0 Speed Running 2 24: Total power on time arrived 25: Frequency Horizontal Detect FDT 2 Output 26: Frequency 1 Arrived 27: Frequency 2 Arrived 28: Current 1 Arrived 29: Current 2 Arrived 31: VI Output Over Limited 32: Drop Loading 33: REV Running 34: 0 Current 35: Module temperature arrived 36: Output current over limited 37: Still output even floor frequency arrived 38: Failure or warning 39: Over temperature warning 40: Running time arrived 41: Failure no under-voltage 42: High pressure 43: Low pressure 44: Pressure arrived P04.01 The 2 function of Relay (same as above) P04.02 Output function of DO1(Y1) (same as above) P04.03 Output Selection function of FM (same as above) P04.09 DO Logic 0-255, (Reserved) P04.10 Relay 1 On Delay Time 0-600s*0 P04.11 Relay 2 On Delay Time 0-600s, (Reserved) P04.20 Terminal VO Mode 0: 0-20mA(Reserved) 1: 4-20mA(Reserved) *3: 0-10V P04.21 Terminal VO Analog Output 0: None 10: Output frequency *11: Reference value 12: Feedback value 13: Motor current 16: Output power 17: Motor Rotational Speed 18: Voltage output 20: Communication control 21: Pulse input	22: Input VI 23: Input AI 26: Busbar voltage 30: Torsional moment output 80: Application control P04.22 Terminal VO Min output proportion 0-200%*0 P04.23 TerminalVO Max output proportion 0-200%*100 P04.24 Terminal VO Minimum output 0-20 (Reserved) P04.25 Terminal VO Maximum output 0.01-20 (Reserved) P04.30 Terminal AO output type 0: Invalid 1: Running P04.31 Terminal AO Output function option Same as P4-21 *10 P04.32 Terminal AO Min output proportion 0-200%*0 P04.33 Terminal AO Output proportion 0-201%*100 P04.34 Terminal AO Min output 0-20 (Reserved) P04.35 Terminal AO Max output 0.01-20 (Reserved) P04.60 The option of pulse output function The output function selection of AMO(Same as above) P04.61 Minimum output frequency of pulse output 0-99.99k*0 P04.62 Maximum output frequency of pulse output 0.01-100k*100k P04.63 Minimum output ratio of pulse 0-200%*0 P04.64 Maximum output ratio of pulse 0-200%*200% P05 PID parameter P05.00 PID setting source *0: Set P05.01 parameter 1: VI 2: AI 3: Panel Coder 4: Pulse Input 5: Communication given 6: Multistage speed 7: P05.01 add Up/Down P05.01 PID value given -3000~3000*3 P05.02 Feedback source of process control *0: VI 1: AI 2: Coder 3: VI-AI(Reserved) 4: Pulse input DI4 5: Communication given 6: VI+AI(Reserved) 7: VIAI Max(Reserved) 8: VIAI Min(Reserved) P05.03 Positive and negative logic of process PI *0: Forward 1: Reverse P05.04 PID Feedback basic value given 0.1-6553.5*10 P05.05 Process PI Proportional Gain 0-1000*20 P05.06 Process PI Integral Time 0.01-655.35s*2 P05.07 Process PI Differential Time 0-10.000s*0 P05.08 PID Reverse stop frequency 0-655.35Hz*0 P05.09 Deviation Limit 0-200%*0 P05.10 Process PID Differential limit 0.1-100*0.1 P05.11 PID Changing time given 0-650s*0.1 P05.12 PID time of filter feedback 0-60s*0	P05.13 PID time of filter output 0-60s*0 P05.15 Process PI proportion gain 0-10s (Reserved) P05.16 Process PI Integration time 0.1-655.35 (Reserved) P05.17 Process PI Calculus time 0-10 (Reserved) P05.18 PID parameter switchover condition 0: No switch (Reserved) 1: Switch by DI (Reserved) 2: Deviation switch (Reserved) 3: Frequency switch (Reserved) P05.19 Process PID Parameter Switchover Deviation 1 0-100%(Reserved) P05.20 Process PID Parameter Switchover Deviation 2 0-100%(Reserved) P05.21 PID Starting value 0-10.00*0 P05.22 PID Time of starting value keeping 0-650.00s*0 P05.23 Output FOR deviation MAX value 0-100%*1 P05.24 Output REV deviation MAX value 0-100%*1 P05.25 PID Integral attribute 00-11*0 P05.26 PID Detection value of feedback lost 0-100%*0 P05.27 PID Detection time of feedback lost 0-100%*0 P05.28 PID Run out and operation *0: Run out but no operation 1: Run out and operation P05.29 Wake up pressure 0-6500*2 P05.30 Wake up delayed time 0-6500s*0 P05.31 Dormant pressure 0-6500*4 P05.32 Dormant delayed time 0-6500s*60 P05.33 Dormant mode set 0: Forbid dormant *1: Pressure arrived 2: Frequency arrived 3: Pressure and frequency arrived at same time P05.34 Dormant frequency 0-655.35Hz*30 P05.35 Pressure proportion linkage 0: workable *1: forbid P05.36 Wake up pressure linkage setting value 0-6500*1 P05.37 Dormant pressure linkage setting value 0-6500*1 P05.38 High pressure alarm difference set 0-6500*0 P05.39 High pressure alarm delay time 0-6500s*0 P05.40 Low pressure alarm difference set 0-6500s*0 P05.41 Low pressure alarm delay time 0-6500s*0 P06 Multistage Command P06.00 Multistage speed commands 0 -100~100%*0	P06.01 Multistage speed commands1 -100~100%*0 P06.02 Multistage speed commands2 -100~100%*0 P06.03 Multistage speed commands3 -100~100%*0 P06.04 Multistage speed commands4 -100~100%*0 P06.05 Multistage speed commands5 -100~100%*0 P06.06 Multistage speed commands6 -100~100%*0 P06.07 Multistage speed commands7 -100~100%*0 P06.08 Multistage speed commands8 -100~100%*0 P06.09 Multistage speed commands9 -100~100%*0 P06.10 Multistage speed commands10 -100~100%*0 P06.11 Multistage speed commands11 -100~100%*0 P06.12 Multistage speed commands12 -100~100%*0 P06.13 Multistage speed commands13 -100~100%*0 P06.14 Multistage speed commands14 -100~100%*0 P06.15 Multistage speed commands15 -100~100%*0 P06.16 Simple PLC running way 0: Running single time then stop *1: Running single time then stop and keep final digital 2: Circulating all the time P06.17 Simple PLC option of drop power memory 0-11*0 P06.18 Simple PLC running time unit *0: s, Second 1: h, Hour P06.19 Simple PLCO running time 0-6500*0 P06.20 Simple PLCO variable speed time option 0-3*0 P06.21 Simple PLC1 running time 0-6500*0 P06.22 Simple PLC1 variable speed time option 0-3*0 P06.23 Simple PLC2 running time 0-6500*0 P06.24 Simple PLC2 variable speed time option 0-3*0 P06.25 Simple PLC3 running time 0-6500*0 P06.26 Simple PLC3 variable speed time option 0-3*0 P06.27 Simple PLC4 running time 0-6500*0 P06.28 Simple PLC4variable speed time option 0-3*0 P06.29 Simple PLC5 running time 0-6500*0 P06.30 Simple PLC5variable speed time option 0-3*0 P06.31 Simple PLC6 running tim 0-6500*0 P06.32 Simple PLC6variable speed time option 0-3*0 P06.33 Simple PLC7 running time 0-6500*0 P06.34 Simple PLC7variable speed time option 0-3*0 P06.35 Simple PLC8 running time 0-6500*0 P06.36 Simple PLC8variable speed time option 0-3*0	P06.37 Simple PLC9 running time 0-6500*0 P06.38 Simple PLC9variable speed time option 0-3*0 P06.39 Simple PLC10running time 0-6500*0 P06.40 Simple PLC10variable speed time option 0-3*0 P06.41 Simple PLC11 running time 0-6500*0 P06.42 Simple PLC11variable speed time option 0-3*0 P06.43 Simple PLC12 running time 0-6500*0 P06.44 Simple PLC12variable speed time option 0-3*0 P06.45 Simple PLC13 running time 0-6500*0 P06.46 Simple PLC13variable speed time option 0-3*0 P06.47 Simple PLC14 running time 0-6500*0 P06.48 Simple PLC14variable speed time option 0-3*0 P06.49 Simple PLC15 running time 0-6500*0 P06.50 Simple PLC15 variable speed time option 0-3*0 P06.51 Multistage speed 0 given way *0: P06.00 given 1: Analog AI1 2: Analog AI2(Reserved) 4: Input pulse 5: PID 6: Preset value P07 Communication Parameter P07.03 Communication Timeout Time 0.1-650.00s*1 P07.04 Communication Timeout Function *0: Invalid 2: Stop 3: Inching operation 4: Max operation frequency 5: Stop then warn 6: Warning P07.06 Reset Communication Timeout *0: Invalid 1: Reset communication cut P07.30 Protocol *0: MODBUS-RTU 2: Reserve P07.31 Address 1-247*1 P07.32 Baud Rate 0: 300b 1: 600b 2: 1200b 3: 2400b 4: 4800b *5: 9600b 6: 19200b 7: 38400b P07.33 Baud Rate *0: No parity (1Position Stop) 1: Even parity (1Position Stop) 2: Odd parity (1Position Stop) 3: No parity (2Position Stop) P07.35 Min. Response Delay 0-0.5s*0.002 P07.36 Max. Response Delay 0.1-10s*5	P07.38 Message Response *0: Every time 1: Only response abnormal message 2: No response P07.39 Programme control 0: Parameter do not save when power off *1: Parameter save when power off P08 Assistant Parameter P08.01 Over Modulation Function 90-105.5%*100 P08.02 Deadband Compensation 0-200*100 P08.07 Max Deadband Compensation 20-1000Hz*50 P08.10 DC Circuit Voltage Compensation *0: No compensation 1: Compensation1 2: Compensation2 P08.20 Switching Frequency 2-16kHz*5 P08.30 Operating mode *0: Normal operating 2: Reset P08.31 Set password/unlock password 0-65535(Reserved) P08.32 Confirm password 0-65535(Reserved) P08.35 Counter A reach to setting 0-65535*0 P08.36 Counter B reach to setting 0-65535*0 P08.37 Save Counter *0: No Save 1: Save Counter A 2: save Counter B 3: Save Counter A B P08.40 Frequency detected value 1 0-655.35Hz*50 P08.41 Frequency detected value 1 hysteresis of instrument 0-100%*5 P08.42 Frequency reach to detection width 0-100%*0 P08.43 Frequency detected value 2 0-655.35Hz*50 P08.44 Frequency detected value 2 hysteresis of instrument 0-100%*5 P08.45 Any reach frequency detected value 1 0-655.35Hz*50 P08.46 Any reach frequency detected width 1 0-100%*0 P08.47 Any reach frequency detected value 2 0-655.35Hz*50 P08.48 Any reach frequency detected width 2 0-100%*0 P08.49 0 current detection level 0-300%*5 P08.50 0 current detection delayed time 0-600s*0.1 P08.51 Output current over limited 0-300%*200 P08.52 Output current over limited detection delayed 0-600s*0	P08.53 Any arrived electron flow 1 0-300%*100 P08.54 Width of any arrived electron flow 1 0-300%*0 P08.55 Any arrived electron flow 2 0-300%*100 P08.56 Width of any arrived electron flow 2 0-300%*0 P08.57 Modular temperature display 0-200°C*75 P08.58 Running time from this start 0-6500min*0 P08.59 Accumulated running time 0-6500h*0 P09 Malfunction and Protect Parameter P09.00 Limited value prevent over current losing speed 0-300%*200 P09.01 Current controller 1 proportion 0-300%*100 P09.02 Current controller 1integral 0.005-2s*0.02 P09.04 Torque limited when motor on 0-1000%*150 P09.05 Torque limited when generate electricity 0-1000%*150 P09.08 Over current losing speed alarm delayed 0-60s*60 P09.09 Torque reached to limited alarm delayed 0-60s*60 P09.20 Braking function *0: Invalid 1: Rheostatic brake 2: Alternating braking P09.21 Resistance Brake threshold Depends on the voltage specification P09.24 Overpressure stall threshold Depends on the voltage specification P09.25 Over voltage control *0: Invalid 2: Model 1 3: Model 2 P09.26 Overvoltage control integral coefficient 0.01-0.1s*0.05 P09.27 Overvoltage control proportion coefficient 0-200%*100 P09.28 Alternating braking integral coefficient 1.0-2.0*1.4 P09.29 Maximum current of alternating braking 0-150%*100 P09.40 Motor phases detection 0: Off *1: On P09.41 Power imbalance option *0: Failure stop 1: Warning 2: Invalid 4: Warning mid-sensitivity 5: Failure stop mid-sensitivity 6: Failure stop high-sensitivity P09.42 Voltagenet drop function *0: Invalid 1: Speed cut 2: Speed cut failure 3: Free revolve stop motor 4: Instantaneous power lost non-stop 5: Instantaneous power lost non-stop failure 6: Failure P09.43 Judge voltage from power grid failure 100-800V (Reserve)	P09.44 Moment non-stop gain when power supply drop 0-500%*100 P09.45 Moment non-stop recovery threshold when power supply drop 0-65535*200 P09.46 Cocnverter action after voltage failure *0: Failure locked 1: Speed start P09.50 Motor overload protection option 0: Prohibition 1: Warning after motor overload *2: Alarm after motor overload P09.51 Motor Overload Protection Factor 0.2-60*1 P09.52 Motor Overheating Protection Warning Factor 50-100%*80 P09.58 Synchronous motor stalling protection *0: Off 1: On P09.59 Time of Synchronous motor stalling protection 0.05-1s*0.1 P09.60 Malfunction warning display 0: Blank 1: Normally display *2: Power on failure clearance P09.61 Malfunction locked *0: Unlocked 1: Locked P09.62 Actions when converter breakdown 0: Display fault and Stop motor *1: Sop motor after warning P09.70 Time of automatic reset *0: Manual reset 1: Automatic reset1 time 2: Automatic reset 2 times 3: Automatic reset 3 times 4: Automatic reset 4 times 5: Automatic reset 5 times 6: Automatic reset 6 times 7: Automatic reset 7 times 8: Automatic reset 8 times 9: Automatic reset 9 times 10: Automatic reset 10 times 11: Automatic reset 15 times 12: Automatic reset 20 times 13: Automatic reset unlimited times P09.71 automatic reset time 0-600s*10 P10 Failure Record P10.00 LCP menu options 1: Motor voltage 2: Motor rotational peed 4: DC voltage 8: Temperature 16: Process PID feedback digital 32: Counter A 64: Counter B 128: Input VI 256: Input AI 512: Input pulse 1024: Output pulse 2048: Custom physical quantities (reserved) 4096: Output power 8192: Process PID given digital	P10.01 RUN button 0: Invalid *1: Valid P10.02 STOP button 0: Invalid *1: Valid 2: Reset valid P10.04 Parameter locked *0: Invalid 1: Protect P10.05 Copy parameter 1: Sectional parameter up load 2: All parameter up load 3: Down load parameter (To be on again when the power is cut off the electricity) P10.10 Days of running 0-9999d P10.11 Hours of running 0-60000h P10.12 Total power 0-65535kwh P10.13 Time of electricity on 0-6553s P10.14 Number of overheating 0-65535 P10.15 Number of overvoltage 0-65535 P10.16 Number of reset power *0: No reset 1: Reset P10.17 Hours of reset running *0: No reset 1: Reset P10.20 Type of first failure Reference Fault Table P10.21 Type of second failure Reference Fault Table P10.22 Type of third failure Reference Fault Table P10.30 First failure frequency --- P10.31 First failure current --- P10.32 First failure voltage --- P10.33 First failure DI --- P10.34 First failure DO --- P10.35 Power on time of first failure --- P10.36 Running time of first failure --- P10.40 Second failure frequency --- P10.41 Second failure current --- P10.42 Second failure voltage --- P10.43 Second failure DI --- P10.44 Second failure DO --- P10.45 Power on time of second failure --- P10.46 Running time of second failure --- P10.50 Third failure frequency --- P10.51 Third failure current --- P10.52 Third failure voltage --- P10.53 Third failure DI --- P10.54 Third failure DO --- P10.55 Power on time of third failure --- P10.56 Running time of third failure --- P10.70 Software version --- P10.71 mainboard Software version ---	P11 Digital Monitoring P11.00 Frequency output P11.01 Set digital P11.02 DC voltage P11.03 Motor voltage P11.04 Motor current P11.05 Frequency output P11.06 Torsional moment output % P11.07 DI input condition P11.08 DO output condition P11.09 VI digital input P11.10 AI digital input P11.11 AI digital input 3 P11.12 Counter A P11.13 Counter B P11.14 Motor rotational speed P11.15 PID reference value P11.16 Feedback value P11.17 PLC stage P11.18 Pulse frequency input P11.19 Frequency feedback (Hz) P11.20 Rest of running time P11.21 VI voltage before emended P11.22 AI voltage before emended P11.23 AI voltage before emended 3 P11.25 Current time of power on P11.26 Total time of power on P11.27 Current running time P11.29 Set communication value P11.30 Coder feedback speed P11.31 display main frequency X P11.32 Display main frequency Y P11.34 Synchronous motor rotor Angle P11.35 converter temperature Attention: labeled"*"is tolerant parameter P010、P011 Parameter is subject to frequency converter actually display
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