

MEGMEET

MV820 Series High Performance Vector Control Variable Speed Drive

BOM Code: R330*****
Version: V00

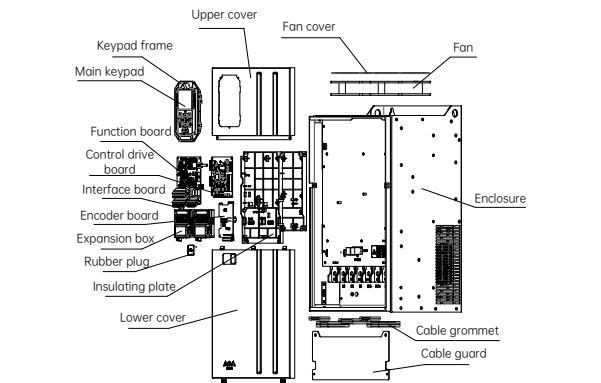
This manual briefly introduces the model, operation panel, terminal wiring, main circuit and control circuit terminals, fast operation, common functional parameters, common faults and countermeasures, etc. For more functions and detailed descriptions of MV820 series drives, please see the full electronic manual.

Product Model

MV820 G 1 - 4 T 90 B T S - (XXX)									
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
① Product series MV820: MV820 series	② Application G: General purpose S: Servo positioning T: Tension control F: Fly-cut	③ Product iteration Number: Customization	④ Input voltage class 2: 220 V 4: 380 V / 480 V	⑤ Input voltage phase S: Single-phase T: Three-phase	⑥ Rated capacity 0.4 kW to 220 KW	⑦ Braking unit B: Built-in braking unit	⑧ Reactor Null: Single-phase T: DC reactor	⑨ Safety function Null: No function S: STO	⑩ Non-standard xxx: Customer number

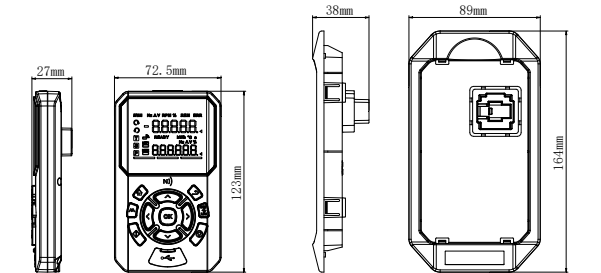
- ① For 22 kW or below, inductor is not included; for 30 kW to 110 kW, inductor is optional; for 132 kW or above, inductor is included as standard.
② For MV820 models of 110 kW or below, built-in braking unit is included as standard.

Product components



Make sure to properly install the dust-proof covers on both sides when used in high-pollution applications.

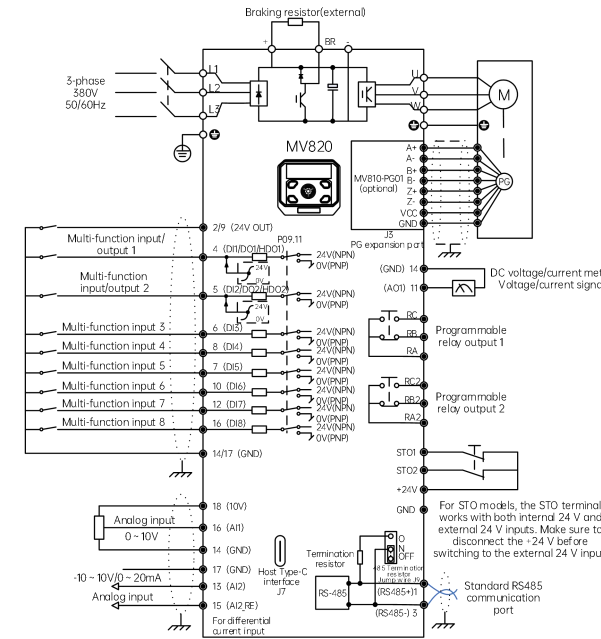
Operation Panel



Symbol	Name	Meaning
Unit LED	Hz	Flashing: The current parameter is the running frequency On: The current parameter is the frequency reference
	A	Current LED On: The current parameter is the current
	V	Voltage LED On: The current parameter is the voltage
	RPM	RPM LED On: The current parameter is the revolutions per minute
Status LED	%	Percent LED On: The current parameter is the percent
	Forward running LED	On: During stop, there is a forward running command for the drive During running, the drive is running forward Flashing: The drive is switching from FWD to REV
	Reverse running LED	On: During stop, there is a reverse running command for the drive During running, the drive is running reversely Flashing: The drive is switching from REV to FWD
	ERR	Alarm LED On: The drive enters the alarm status
	RUN	Running LED On: Running; Flashing: Stopping; Off: Stopped

REM	Operation command channel LED	Off: Local; Flashing: Communication On: Terminal
T	Torque control mode indicator	On: The drive is now in the torque control mode
S	Speed control mode indicator	On: The drive is now in the speed control mode
P	Position control mode indicator	On: The drive is now in the position control mode
	Wireless communication indicator	Flashing: Waiting for connection On: Connection is successful Off: Function is disabled
RED Y	Standby state indicator	On: In the standby state
----	Menu mode indicator	On: Current menu mode (quick menu, full menu and changed memory menu modes from left to right)
-	Negative sign indicator	On: The current data is negative; Off: The current data is positive
◀	Main and auxiliary display area indicator	On: Indicates the current display area (main/auxiliary) that is being operated
Ni)	NFC indicator	Flashing: Normal data communication Off: No data communication

Wiring for Basic Operation



The GND terminal of the converter needs to be connected to the 0V of an external equipment.

Control circuit terminals wiring

Type	Mark	Name	Function	Specification
Communic ation	1	RS485	485 differential signal positive (Reference ground:GND)	Standard RS485 communication interface Use twisted pair cables or shielded cables
	3		485 differential signal negative (reference ground: GND)	
Power supply	2/9	+24V power supply	+24 V reference power output	Permissible maximum output current 200 mA (the total current with all digital outputs included)
	18	+10 V power supply	+10 V reference power output	Permissible maximum output current 10 mA
	14/17	+24V, +10V power GND	Reference GND of +24 V and +10 V	Reference 0 V for digital input/output, analog input/output and communication signals
Analog input	16	Analog single-ended input AI1	Receives analog voltage or current single-ended input. You can choose voltage or current analog input through the function code P09.01 (reference ground: GND).	Input voltage: 0 V to 10 V (input impedance: 100 k Ω), resolution: 1/4000 Input current: 0 mA to 20 mA (input impedance: 165 Ω), resolution: 1/4000
	13	Analog single-ended input AI2 or analog current differential input AI2	Receives analog voltage or current single-ended input, or current differential input. You can choose voltage or current analog input through the function code P09.02 (reference ground: GND).	Input voltage: -10 V to 10 V (input impedance: 100 k Ω), resolution: 1/4000 Input current: 0 mA to 20 mA (input impedance: 10 Ω), resolution: 1/4000, supporting differential input
	15	Differential input current return	Used as the current return terminal during analog current	Input current: 0 mA to 20 mA (input impedance: 10 Ω), resolution: 1/4000,

Analog output		terminal AI2 RE	differential input. If the analog current input is single-ended, you need to connect this terminal to GND.	supporting differential input
	11	Analog output AO1	Provides analog voltage/current output, with 28 kinds available. You can choose voltage or current analog output through the function code P09.02 (reference ground: GND).	Output voltage: 0 to 10 V, $\pm 5\%$ Output current: 0 to 20 mA
	4	Multi-function DI1	You can set the multi-function DI, HDI and thermosensitive signal input through the function codes P09.00 and P09.01.	For multiple input circuit function selection, refer to the multi-function input/output terminal wiring below: Example: P09.00 Terminal 5 Terminal 4 0x00 DI2 DI1 0x21 HD02 DO1
	5	Multi-function DI2		
Multi-functional input terminal	6	Multi-function DI3		The terminals can only be used as digital inputs DI3 and DI4, and cannot be defined for other signal functions through function codes.
	8	Multi-function DI4		
	7	Multi-function DI5 or for thermal sensitivity	For more explanations, refer to 7.10 (terminal input parameters): P09.03-P09.10 for input functions and P09.14 for two/three-wire control functions (reference point: GND).	The terminal can be used as digital input DI5 through the function code P09.01, and be defined as the thermosensitive element input with PT1000 supported.
	10	Multi-function DI6 or HDI	The terminal can only be used as digital input DI6 or digital pulse HDI input through the function code P09.01 with pulse 0 to 50 kHz.	The terminal can be used as digital input DI6 or digital pulse HDI input through the function code P09.01 with pulse 0 to 50 kHz.
	12	Multi-function DI7	The terminal can only be used as digital input DI7, and cannot be defined for other signal functions through function codes.	The terminal can only be used as digital input DI7, and cannot be defined for other signal functions through function codes.
	16	Multi-function AI1	The terminal can be used as digital input DI8 or analog input AI1 through the function code P09.01.	The terminal can be used as digital input DI8 or analog input AI1 through the function code P09.01.
Multi-functional output terminal	4	Open-collect or output terminal Y1/DO1 output terminal/HDO1 pulse output terminal	In addition to being used as ordinary multi-function terminals (same as 4, 5, 6, 8, 7, 10, 12, 16), 4 and 5 can also be programmed as DO/HDO output terminals. Refer to P09.00-P09.02 of 7.10 (terminal input parameters) for specific terminal selection (reference point: GND).	For multiple output circuit function selection, refer to the multi-function input/output terminal wiring below: Example: P09.00 Terminal 5 Terminal 4 0x21 HD02 DO1 0x22 HD02 HD01
	5	Open-collect or output terminal Y2/DO2 output terminal/HDO2 pulse output terminal		Maximum operating voltage: 30 V Maximum output current: 50 mA
	11	AO1 output terminal	The terminal can be programmed as multi-function DO or AO. Refer to P09.02 of 7.10 (terminal input parameters) for specific terminal selection (reference point: GND).	The terminal can also be used as analog output AO1 through the function code P09.02. Refer to the AO1 description in the table.
Relay output terminal RO1	RA	Relay output	RA-RB: normally closed, RA-RC: normally open Contact capacity: 250 V AC / 2A (COS Φ =1) 250 V AC / 1A (COS Φ =0.4) 30 V DC / 1A Refer to P10 for usage instructions. The overvoltage level of the input voltage of the relay output terminal is overvoltage level II.	RA-RB: normally closed, RA-RC: normally open Contact capacity: 250 V AC / 2A (COS Φ =1) 250 V AC / 1A (COS Φ =0.4) 30 V DC / 1A Refer to P10 for usage instructions. The overvoltage level of the input voltage of the relay output terminal is overvoltage level II.
	RB			
	RC			
Relay output terminal RO2	RA	Relay output	RA-RB: normally closed, RA-RC: normally open Contact capacity: 250 V AC / 2A (COS Φ =1) 250 V AC / 1A (COS Φ =0.4) 30 V DC / 1A Refer to P10 for usage instructions. The overvoltage level of the input voltage of the relay output terminal is overvoltage level II.	RA-RB: normally closed, RA-RC: normally open Contact capacity: 250 V AC / 2A (COS Φ =1) 250 V AC / 1A (COS Φ =0.4) 30 V DC / 1A Refer to P10 for usage instructions. The overvoltage level of the input voltage of the relay output terminal is overvoltage level II.
	RB			
	RC			

- ① Most multi-function terminals can be multiplexed into a variety of IO functions through function code. Such as DI, DO, HDI, HDO, AI, AO and thermocouple input.
② The multi-function terminal DI/DO wiring diagram does not mark the internal circuit diagram of the drive, and is only represented by the symbol "▷".

PC Card Terminal

Type	Mark	Name	Function description	Specification
Encoder	A+,A-	Encoder phase A signal	Encoder signal and power signal input ends, supporting OC, push-pull and differential output-type PG. See 4.2.2.7 for wiring details.	Maximum input frequency \leq 250kHz
	B+,B-	Encoder phase B signal		
	Z+,Z-	Encoder phase Z signal		
	VCC,GND	Encoder power supply	Provides power supply for the external encoder (reference ground: GND) 5 V or 12 V selected by the function code P04.04	Output voltage: +5V/12V Maximum output current: 200mA/150mA

Main Circuit Terminals

Type 6: Enclosure H (Applicable models: 4T90/110)
Type 7: Enclosure I (Applicable models: 4T132/160)
Type 8: Enclosure J (Applicable models: 4T185/220)

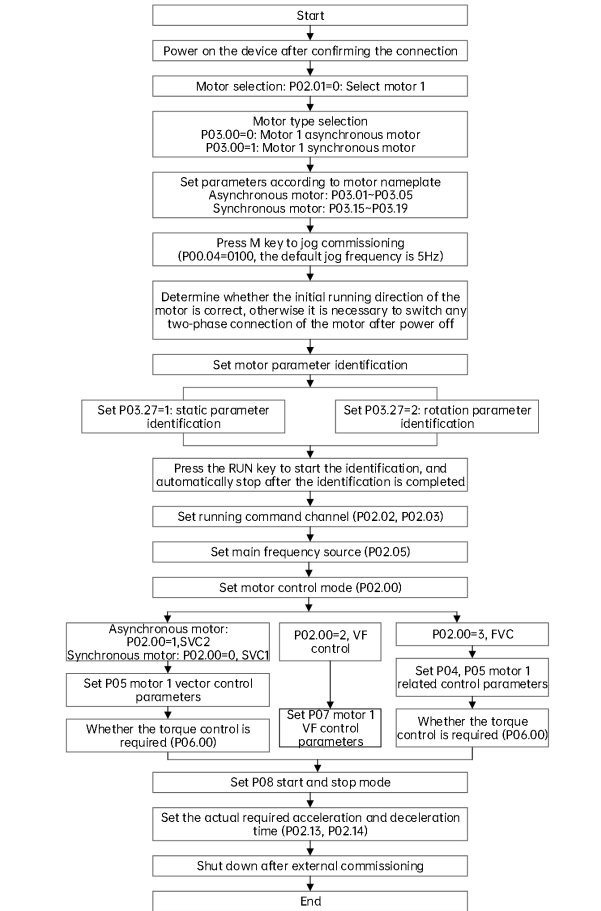
Terminal	Function
L1, L2, L3	Three-phase AC 380V or three-phase AC 220V input terminals
DC+,BR	Connect the external braking resistor terminals
DC+,DC-	DC bus terminals
U, V, W	Three-phase AC output terminals
⊕	PE connection terminal, wiring frame fixing screw

Quick Operation Instruction

Confirm that all terminals are properly fastened and connected, and whether the power of the motor and the drive match.

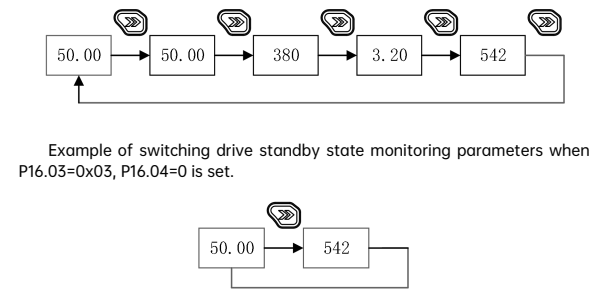
Check before power-on

After the wiring and power inspection are confirmed, close the air switch of the AC power supply on the input side of the drive and power the drive. "----" will be displayed on the drive operation panel at first, and the contactor will normally sucked . When the display character of the digital tube changes to the set frequency (such as 50.00), it indicates that the drive has been initialized.



Monitoring Mode

Through the function codes P16.00, P16.01 and P16.02, you can choose the drive parameters to be displayed on the operating panel during running, such as set frequency, output frequency, bus voltage DI, DO, AI and so on (for details, refer to Group P16). Then, you can view the chosen parameters through the "▷" key on the operating panel.Shows the parameter display switchover during running with P16.00=0xFF, P16.01=0xFF and P16.02=4.



Quick Operation Instruction

O: Can be changed during running;
x: Can be changed during stop;
*: Read only


Function code	Name	Description	Default value	Change
P00.00	Menu mode selection	0: Quick menu mode Only quick commissioning related parameters are displayed. 1: Full menu mode All function parameters are displayed. 2: Changed memory menu mode Only parameters that are different from factory settings are displayed.	1	○
P00.04	Selection of key functions	Ones place: Reserved Tens place: Function selection of the STOP key 0: The STOP key is valid only in the panel control channel. 1: The STOP key is valid in all control channels. Hundreds place: Function selection of multi-function M key 0: No function 1: FWD JOG 3: REV JOG 4: Command channel switchover (cyclic) Thousands place: Reserved	0	○
P00.05	Parameter initialization	0: Parameters rewritable 1: Clear fault records 2: Restore to factory settings 3: Restore some parameters to factory settings (motor parameters not restored)	0	×
P02.00	Control mode selection	0: SVC1 1: SVC2 (only for asynchronous motors) 2: V/F control (only for asynchronous motors) 3: FVC	2	×
P02.01	Motor selection	0: Motor 1 1: Motor 2	0	×
P02.02	Operation command channel selection	0: Keypad control 1: Terminal control 2: Communication control	0	×
P02.03	Communication command channel selection	0: Modbus channel / Modbus TCP channel 1 and 2: Reserved 3: EtherCAT / PROFINET / CANopen / EtherNet channel	0	×
P02.04	Running direction	0: Same direction 1: Opposite direction	0	○
P02.05	Main frequency source selection	0: Digital setting P02.09 1: AI1 2: AI2 3: High-speed pulse HDI reference 4: Simple PLC programming reference 5: Multi-speed running reference 6: PID control 7: Modbus / Modbus TCP 8: PROFINET / EtherCAT 9: EtherCAT / PROFINET / CANopen / EtherNet channel	0	×
P02.09	Frequency digital setting	0.00 Hz to P02.11	50.00 Hz	○
P02.10	Maximum output frequency	P02.11 to 599.00 Hz Note: The maximum frequency is at least 50.00 Hz	50.00 Hz	×
P02.11	Upper limit frequency	P02.12 to P02.10	50.00 Hz	×
P02.12	Lower limit frequency	0.00 Hz to P02.11	0.00 Hz	×
P02.13	Acceleration time 1	0.0 to 6000.0 s Note: after being restored to default values, the system will do auto matching based on the actual model (applicable for acceleration/deceleration time 1, 2, 3 and 4)	Model dependent	○

Function code	Name	Description	Default value	Change
		5.5 kW and below: 10 s 5.5 to 30 kW (included): 20 s Above 30 kW: 40 s		
P02.14	Deceleration time 1	0.0 to 6000.0 s	Model dependent	○
P02.16	Carrier frequency	2.0 to 12.0 kHz	Model dependent	○
P03.00	Motor type selection	0: Asynchronous motor 1: Synchronous motor	0	×
P03.01	Asynchronous motor rated power	0.1 to 3000.0 kW	Model dependent	×
P03.02	Asynchronous motor rated voltage	0 to 1200 V	Model dependent	×
P03.03	Asynchronous motor rated current	0.8 to 6000.0 A	Model dependent	×
P03.04	Asynchronous motor rated frequency	0.01 Hz to P02.10	50.00 Hz	×
P03.05	Asynchronous motor rated speed	1 to 36000 rpm	Model dependent	×
P03.15	Synchronous motor rated power	0.1 to 3000.0 kW	Model dependent	×
P03.16	Synchronous motor rated voltage	0 to 1200 V	Model dependent	×
P03.17	Synchronous motor rated current	0.8 to 6553.5 A	Model dependent	×
P03.18	Synchronous motor rated frequency	0.01 Hz to P02.10	Model dependent	×
P03.19	Number of synchronous motor pole pairs	1 to 128	2	×
P03.27	Motor auto-tuning	0: No operation 1: Part parameter auto-tuning in the static status 2: Full parameter auto-tuning in the rotating status 3: Full parameter auto-tuning in the static status	0	×
P04.00	Encoder PPR	1 to 65535	1024	×
P04.01	Encoder type	0: No encoder 1: ABZ encoder 2: Resolver 3: ABZ +STO 4: STO card 5: Resolver+STO	0	*
P04.02	A/B phase sequence of ABZ incremental encoder	0: Forward 1: Reverse Note: Rotation auto-tuning automatically detects the phase sequence	0	×
P04.03	Reserved			
P04.04	PG card voltage class selection	0: 5 V 1: 12 V	0	×
P05.00	Speed loop proportional gain 1	1 to 100	10	○
P05.01	Speed loop integral time 1	0.01 to 10.00 s	0.50 s	○
P05.03	Speed loop proportional gain 2	1 to 100	10	○
P05.04	Speed loop integral time 2	0.01 to 10.00 s	1.00 s	○
P06.00	Torque control enable	0: Disabled 1: Enabled	0	○
P07.00	V/F curve	0: Straight-line V/F 1: Multi-point V/F 2: Square V/F 3: Reserved 4: V/F complete separation 5: V/F half separation	0	×
P07.01	Torque boost	0.0 to 50.0	Model dependent	○
P07.02	Cut-off frequency of torque boost	0.00 Hz to P02.11	50.00 Hz	×
P07.09	Torque compensation coefficient	0 to 300	150	○
P07.10	V/F overexcitation gain	0 to 200	80	×
P07.11	Oscillation suppression gain	0 to 100	40	○
P07.12	Oscillation suppression gain mode	0 to 2	0	×
P08.00	Startup mode	0: Startup from the startup frequency 1: Startup after speed tracking 2: Startup after DC braking	0	×
P08.01	Startup delay time	0.0 to 600.0 s The device responds to the operation commands after the delay time. During the delay, the device is in standby.	0.0	×
P08.02	Startup frequency	0.00 to 50.00 Hz	0.00	×
P08.03	Startup frequency hold time	0.0 to 50.0 s	0.0	×

Function code	Name	Description	Default value	Change
P08.06	Stop mode	0: Decelerate to stop 1: Coast to stop 2: Emergency stop	0	○
P09.00	Function selection of terminals 4, 5, 6, 8	Ones: 0: Terminal 4 as DI1 1: Terminal 4 as DO1 2: Terminal 4 as HDO1 Tens: 0: Terminal 5 as DI2 1: Terminal 5 as DO2 2: Terminal 5 as HDO2 Hundreds: Reserved Thousands: Reserved Note: Terminal 6 can only be set as DI3. Terminal 8 can only be set as DI4.	0x10	○
P09.01	Function selection of terminals 7, 10, 12, 16	Ones: 0: Terminal 7 as DI5 1: Terminal 7 as thermosensitive signal input Tens: 0: Terminal 10 as DI6 1: Terminal 10 as HDI Hundreds: Reserved Thousands: 0: Terminal 16 as DI8 1: Terminal 16 as AI1 voltage input 2: Terminal 16 as AI1 current input Note: Terminal 12 can only be set as DI7	0x10	○
P09.02	Function selection of terminals 13, 11	Ones: 0: Terminal 13 as AI2 voltage input 1: Terminal 13 as AI2 current input Tens: 0: Terminal 11 as DO3 or RO2 1: Terminal 11 as AO1 voltage output 2: Terminal 11 as AO1 current output Hundreds: Reserved Thousands: Reserved	0x10	○
P09.03	DI1 function selection	0: No function 1: Forward RUN 2: Reverse RUN 3: Forward jog 4: Reverse jog 5: Three-wire control 6: Multi-reference terminal 1 7: Multi-reference terminal 2 8: Multi-reference terminal 3 9: Multi-reference terminal 4 10: Acceleration/Deceleration time terminal 1 11: Acceleration/Deceleration time terminal 2	1	○
P09.04	DI2 function selection		0	○
P09.05	DI3 function selection		22	○
P09.06	DI4 function selection		0	○
P09.07	DI5 function selection		0	○
P09.08	DI6 function selection		0	○
P09.09	DI7 function selection		0	○
P09.10	DI8 function selection	12: Frequency up/down setting clear (Terminal) 13: Frequency up/down setting clear (Terminal+Keypad) 14: Frequency increase command (UP) 15: Frequency decrease command (DN) 16: External fault NO input 17: External fault NC input 18 to 19: Reserved 20: Frequency reference source switchover from A to B 21: Frequency reference source switchover from combination to A 22: External reset (RESET) input 23: Coast to stop input (FRS) 24: Acceleration/Deceleration inhibition 25: DC braking input at stop 26: Simple PLC pause command 27: Frequency reference source switchover from combination to B 28: PLC stop memory clear 29: PID pause 30: PID clear 31: PID integral hold 32: Into the 0Hz operation 33: PID regulating feature switchover 34: Main reference frequency source selection 1 35: Main reference frequency source selection 2 36: Main reference frequency source selection 3 37: Main reference frequency source selection 4 38: Command channel switched to keypad 39: Command channel switched to terminal 40: Command channel switched to communication 41: Direct DC braking operation 42: REV inhibition 43: Reserved 44: External stop command (it is valid for all control modes, and the device will be stopped according to the current stop mode) 45: Auxiliary reference frequency clear 46: Pulse input clear 47: Speed control and torque	0	○

Function code	Name	Description	Default value	Change
		control switchover terminal 48: Torque direction switchover terminal in torque control 49: Position selection 1 50: Position selection 2 51: Position selection 3 52: Digital position cyclic positioning mode enable 53: Spindle homing 54: Speed/Position mode switchover 55: Motor 1 and 2 switchover terminal 56: Safety terminal input (reserved) 57: PG card meter cleaning 58 to 59: Reserved 60: Emergency stop 61: Wobble pause 62: Wobble reset 63: Counter reset 64: Counter trigger 65: Power consumption clear 66: Power consumption hold 67: Length counter input 68: Length reset 69: Switched to V/F control 70: Switched to FVC control 71: Reserved 72: Reserved		
P09.11	Terminal conduction mode selection	0: High conduction outside the terminal 1: Low conduction outside the terminal	1	×
P09.12	DI1 to DI4 active mode	Ones: 0: DI1 positive logic active 1: DI1 negative logic active Tens: 0: DI2 positive logic active 1: DI2 negative logic active Hundreds: 0: DI3 positive logic active 1: DI3 negative logic active Thousands: 0: DI4 positive logic active 1: DI4 negative logic active	0	○
P09.13	DI5 to DI8 active mode	Ones: 0: DI5 positive logic active 1: DI5 negative logic active Tens: 0: DI6 positive logic active 1: DI6 negative logic active Hundreds: 0: DI7 positive logic active 1: DI7 negative logic active Thousands: 0: DI8 positive logic active 1: DI8 negative logic active	0	○
P10.00	DO1 function selection	0: Disabled 1: AC drive in running	0	○
P10.01	DO2 function selection	2: Forward running 3: Reverse running	1	○
P10.02	DO3 function selection/ Relay RO2 output selection	4: Frequency reach signal (FAR) 5: Frequency-level detection signal (FDT1) 6: Frequency-level detection signal (FDT2)	0	○
P10.03	Relay RO1 output selection	7: Overload detection signal (OL) 8: Lockout for undervoltage (LU) 9: External fault stop (EXT) 10: Frequency upper limit (FHL) 11: Frequency lower limit (FLL) 12: Zero-speed running 13: Simple PLC stage completion 14: Simple PLC cycle completion 15: Current running duration reach 16: Accumulated running duration reach 17: AC drive ready to run (RDY) 18: AC drive fault 19: Host device on/ff signal 20: Motor overheat 21: Torque limited Valid when torque command is limited by the torque limit value 1 or 2. 22: Motor overload warning 23 to 25: Reserved 26: Reference count value reach 27: Designated count value reach 28: Length reach 29: Positioning completed 30: Zero positioning completed 31: Index positioning completed 32 to 37: Reserved 38: Motor 1 and 2 indication terminal 39: Bus card switch signal 40 to 45: Reserved 46: PID feedback loss 47: Reserved	18	○
P15.00	Communication format	Ones: 0: Modbus protocol 1: Profinet 转485协议 Tens: 0: 1-8-2-N format 1: 1-8-1-E format 2: 1-8-1-O format 3: 1-8-1-N format	0x30	○

Function code	Name	Description	Default value	Change
P15.01	Baud rate	0: 4800 BPS 1: 9600 BPS 2: 19200 BPS 3: 38400 BPS 4: 57600 BPS 5: 115200 BPS 6: 125000 BPS	1	○
P15.02	Local address	0 to 247, 0 is the broadcast address	1	○
P97.32	Current fault type		0	*
P97.33	Latest fault type	0: No fault	0	*
P97.34	Second latest fault type	1~64: Other faults	0	*



① The given channels of main frequency and auxiliary frequency are mutually exclusive.

② The settings for multi-function digital input terminals are mutually exclusive (except for function 0).

Troubleshooting

Fault code	Fault type	Possible fault cause	Solutions
OC1	1 Acceleration over-current	①The acceleration/ deceleration time is too short. ②The motor parameters are incorrect. ③When instantaneous stop happens, restart the rotating motor ④The drive power is too low. ⑤Sudden load change or abnormal load	①Lengthen the acceleration /deceleration time ②Perform the parameter auto-tuning of the motor ③Check the PG and its wiring ④Adopt the drive with high power class ⑤Check the load
OC2	2 Deceleration over-current		
OC3	3 Constant speed over-current		
OU1	4 Acceleration over-voltage	①Abnormal input voltage ②The deceleration time is too short	①Check the input power supply ②Lengthen the deceleration time
OU2	5 Deceleration over-voltage	③There is potential energy load or the load inertial torque is large	③Select appropriate dynamic braking components
OU3	6 Constant speed over-voltage		
Uv	7 Undervoltage fault	Drive bus voltage is too low	Check the input power supply voltage
SPI	8 Input side phase loss	There is phase loss in input R.S.T	Check the input voltage
SPO	9 Output side phase	There is phase loss in output U.V.W	Check the output wiring
drv	10 Power module protection	①There is interphase short circuit or grounding short circuit in output three phases ②The wirings or the plug-in units of the control board loosens. ③Abnormal current waveform caused by output phase loss and so on ④Hardware failure	①Rewiring and check if the motor insulation is good. ②Check the wiring and rewiring ③Seek for service support
OH1/OH2	11/12 Inverter module/rectifier heatsink over-temperature	①The ambient temperature is too high ②The duct is blocked or the The fan is damaged ③The inverter module is abnormal	①Lower the ambient temperature ②Clean the duct or Replace the fan ③Seek for service support
OL1	13 Drive overload	①The motor parameters or V/F curve is improper ②The load is too large ③When instantaneous stop happens, restart the rotating motor ④The acceleration time is too short or The grid voltage is too low	①Perform the parameter auto-tuning of the motor ②Adopt the drive with higher power ③Set the start mode P08.00 as the speed tracking restart function ④Lengthen the acceleration time ⑤Check the grid voltage
OL2	14 Motor overload	①The motor overload protection factor setting is incorrect ②V/F curve is improper ③The motor is blocked or the sudden change of load is too large ④The grid voltage is too low	①Set the overload protection factor of motor correctly ②Set V/F curve and torque increase correctly ③Check the load and grid voltage
EF	15 Emergency stop or external device fault	①Stop suddenly by pressing the "STOP" key ②External fault emergency-stop terminal is enabled	①See the function definition of the "STOP" key in P00.14 ②After the external fault is revoked, release the external fault terminal
EOP	16 EEPROM read/write fault	The read/write error of the control parameters occurs	Reset by pressing the "STOP/RESET" key, seek for service support

Fault code	Fault type	Possible fault cause	Solutions
CE	17 Abnormal remote serial port communication	①The baud rate is set improperly ②Serial port communication error	①Set the baud rate properly ②Reset by pressing the "STOP/RESET" key, seek for service support ③Modify the P15.03 settings
ItE	19 Current detection circuit abnormal	①The wirings or the plug-in units of the control board loosens. ②Hardware failure	①Check them and rewiring ②seek for service support
bCE	46 Board-level communication fault	Board inspection signal connection problem	Seek for service support

Note: For more fault type and solutions, please see the full electronic manual.

Warranty and Service

(1) Warranty period
The product is warranted for 18 months from the date of purchase, however, the warranty date shall not exceed 24 months after the manufacture date recorded in the nameplate.

(2) Warranty scope
During the warranty period, any product abnormalities incurred due to our company can be freely repaired or replaced by our company. In case of any following situations, a certain maintenance fees for the product will also be charged even if it is in the warranty period.

① The damages are caused by fire, flood, strong lightning strike, etc.
② The artificial damages are caused by unauthorized modifications.
③ The product is damaged due to fall or in transit after purchasing.
④ The damages are caused by using beyond the standard specification requirements.

⑤ The damages are caused by operation and use failing to follow the instruction manual.

(3) After-sales service
① If there are specific requirements for drive installation and commissioning , or the working status of the drive is unsatisfactory (such as unsatisfactory performance and function), please contact your product agent or Shenzhen Megmeet Electric Co., Ltd..

② In case of any abnormality, please timely contact your product provider or Shenzhen Megmeet Electric Co., Ltd. for help.

③ During the warranty period, our company will repair any product abnormality incurred due to product manufacturing or design free of charge.

④ If the product is out of the warranty period, our company will make paid repair according to user's requirement.

⑤ The service charge is calculated by actual costs. If there is an agreement, the agreement shall prevail.

If you want to know any information about the product, please contact us. Please provide the product model and the product serial number of the required information when consulting. You can access information and services in the following ways:

① Call our national unified service hotline: +86-400-666-2163
② Website: www.megmeet.com
③ Scanning the two-dimensional code of inverter body data can be directly linked to the corresponding product data; You can also scan the Megmeet program QR code, enter the mini program, click "Data" at the bottom, select relevant business segments, select corresponding products, and obtain more information.



Electronic manual



Applet



Official Website



Official WeChat

MEGMEET

Drive Warranty Bill

Customer company:	
Detailed address:	
Contact:	Tel:
Machine model:	
Machine No:	Purchase date:
Service unit:	
Contact:	Tel:
Maintenance date:	

Certificate of conformity	Inspector: _____ Production Date: _____
	This product has been inspected by our quality department, its performance parameters meet the design standards, and it is allowed to leave the factory.