HD07-S/HD09/HD09-S/HD20/ HD30/HD3N/HD50 Series

Simple Manual

This manual is only for simple description.

For more detailed information, please refer to the user manual of each product.

Please visit **www.hpmont.com** to download.

V1.2 2021.10

Safety Information

Danger

A Danger Information which is Critical for Avoiding Safety Hazard

- Electrical installation must be performed by a qualified electrical engineer and maintained by a professionally trained and authorized professional.
- The inverter should be installed on a flame-retardant object such as metal, away from flammable and explosive objects.
- After the inverter is powered off for 10 minutes, confirm that the internal charge indicator is off and the voltage between the power terminals (+) and (-) is lower than 36V, only then can operate.
- After the external power emergency stop terminal is turned on, be sure to confirm that its action is effective and reliable.
- The inverter has a leakage current greater than 3mA to the ground. The specific value is determined by the use conditions. The inverter and the motor must use two independent grounding wires to ensure safety. It is also recommended that users install Type B leakage protection devices (ELCB/RCD).
- Before starting the motor and mechanical equipment, please make sure that the motor and mechanical equipment are working within the allowable range.
- Please note that do not touch the inverter terminals when the inverter is powered. Do not connect the power terminals of the inverter to the product housing, and do not short-circuit the power terminals.
- When the operating environment exceeds 40℃ , the inverter needs to be derated. For every 1℃ increase, it needs to be derated by 2%. The Max. working environment temperature is 50℃ .
- When the altitude exceeds 1000 meters, derating is required.

Warning

A Warning Information which is Critical for Avoiding Damage to the Product and other Device

- Do not drop wires, screws, or drilling residue into the inverter during installation work.
- The inverter has passed the withstand voltage test before leaving the factory, so it can not be tested again.
- For products stored for more than 2 years, the power supply shall be boosted slowly through the voltage regulator when power on.
- Please tighten the terminal reliably.
- Do not connect the input power line to the output U/V/W terminal.
- Do not connect the phase shift capacitor to the output loop.
- Switch the motor or perform variable frequency/power frequency switching when the inverter stops outputting.
- Do not short-circuit the inverter DC bus terminals.

Product Model

Product model can be confirmed on the product packaging and on the product nameplate.

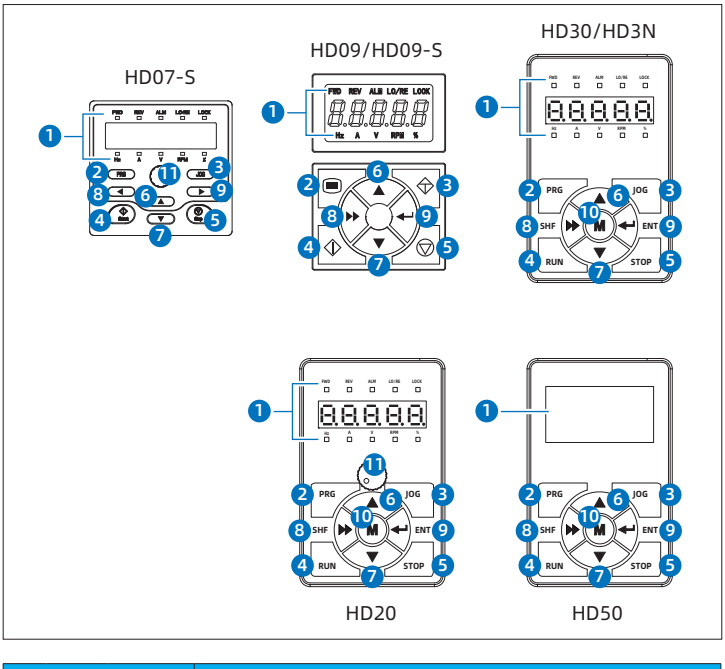
HDXX-4T5P5G-X

- **Product Series**
- **Power Supply Voltage**
  - 2 = 200 - 240VAC
  - 4 = 380 - 460VAC
  - 6 = 500 - 690VAC
- **Input Phase**
  - S = Single phase input
  - D = Single/three phase input
  - T = Three phase input
- **Motor Power**
  - 0P2 = 0.25kW
  - 0P4 = 0.4kW
  - ⋮ ⋮
  - 630 = 630kW
- **Product Type**
  - G = General type
  - P = Special type for fan blower/water pump
- **Special Function Configuration**

Keypad

Description

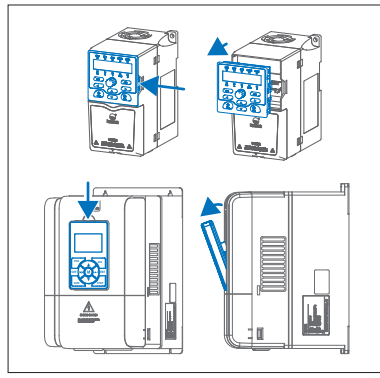
The layout and description of the keypad are shown below.



Key		Description
1	Display	LCD/LED display
2	PRG	Programming/exit key: • Enter or exit key
3	JOG	Jog key: • Jog start the inverter when keypad controls
4	RUN	Run key: • Start the inverter when keypad controls
5	STOP	Stop/reset key: • Stop the inverter when keypad controls • Reset fault when a fault is detected
6	▲	Increase/decrease key: • The parameter value • The setting value of the parameter
7	▼	
8	▶▶	Shift key: • When selecting a parameter or setting value, cycle to the right to select a 1-digit value
9	↵	Enter/confirm key: • Go to the sub menu • Save the set value
10	- M	Multi-function key: • Set specific functions by F00.12
11	Potentiometer	The same as AI terminal function • Set specific functions by F16.00

Keypad

Remove the Keypad



HD09/HD09-S

Non-removable.

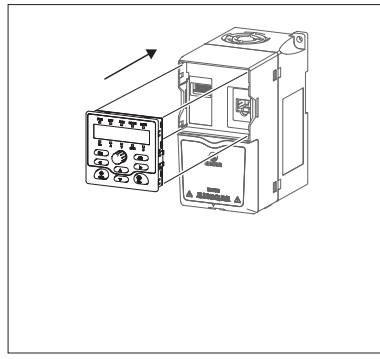
HD07-S

Press the buckles of the keypad at both ends at the same time, and pull out to remove the keypad.

HD20/HD30/HD3N/HD50

Press down on the buckle above the keypad, press the buckle, and pull out to remove the keypad.

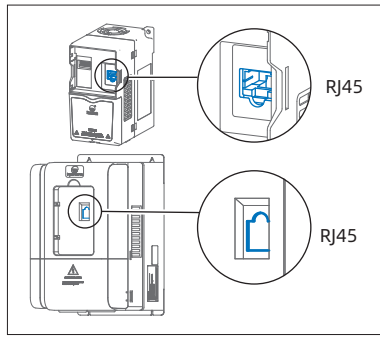
Installation



The keypad is parallel to the inverter. Press down in the vertical direction of the keypad until hear a "click".

Note: Do not install the keypad from other direction, otherwise it will cause poor contact of the keypad.

External the Keypad



External Connection by Removing the Keypad

Note: *HD09/HD09-S cannot be connected externally.*

1. Remove the terminal head of the keypad and RJ45 port.
2. Connect one end of the cable to the removed keypad, and the other end to the RJ45 port.

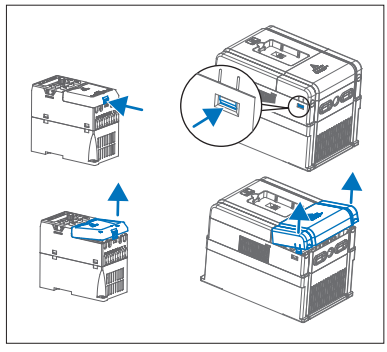
External Connection by Control Board

Note: *HD07-S cannot be connected externally.*

Connect externally through the RJ45 port on the control board.

Electrical Installation

Remove the Cover



Note: *HD09/HD09-S wiring directly.*

Sheet Metal Structure

Loosen the cover screw counterclockwise and remove the cover.

Plastic Structure

Press the hook in the direction of the arrow in the right figure and remove the lower cover upward.

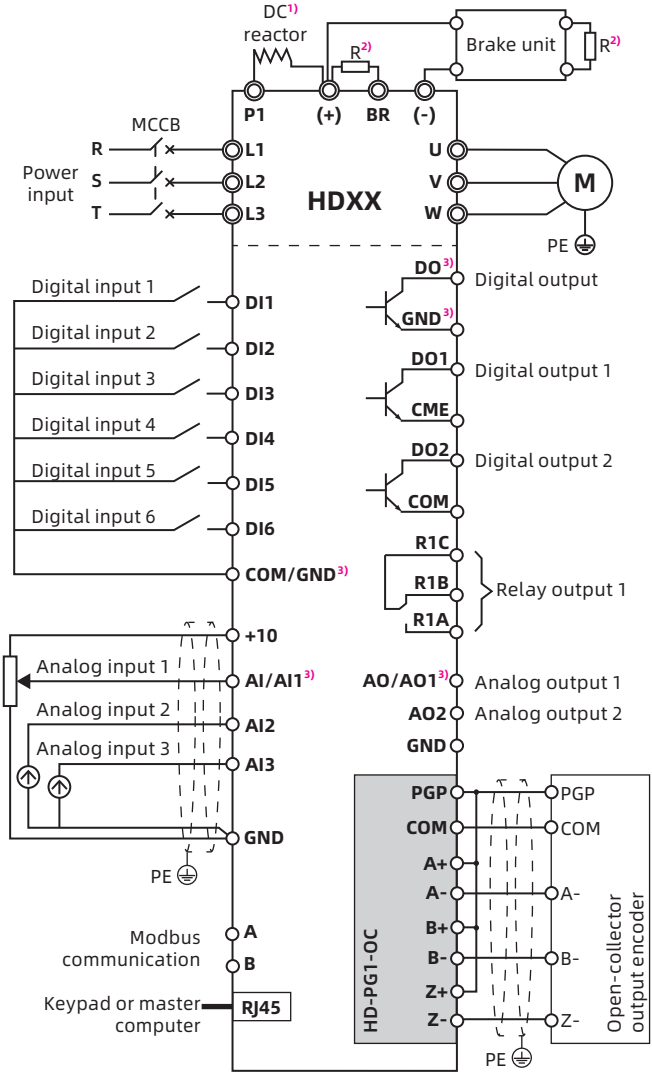
Electrical Installation

Terminal Wiring Diagram

The wiring is shown in the figure below, and the terminals of each product are described later.

Note:

1) *Remove the shorting piece of terminals P1 and (+) when connecting a DC reactor.*
2) *R is the braking resistor.*
3) *When wiring for HD09/HD09-S, the teminal is GND, DO, AI, AO.*
   When wiring for HD07-S, the teminal is AO.



Danger

- The bare metal part of the power terminal wiring must be wrapped with insulating tape.
- The control circuit and power circuit are basically insulated. Do not touch the inverter after it is powered on.

Warning

- Make sure that the AC input voltage is consistent with the rated input voltage of the inverter.
- If the control circuit is connected to an external device with an accessible port during power-on, an additional level of insulation protection and isolation should be added to ensure that the original voltage level of the external device is not changed.
- If the communication terminals of the control circuit are connected to a PC, use an RS485/232 isolated converter that meets safety requirements.
- Never connect control terminals other than relay terminals to AC 220V.

Electrical Installation

Power Terminal

See power terminal descriptions below.

Terminal	Description	Remark
L1, L2, L3	Three-phase AC power input terminal	*HD30/HD3N/HD50*
L1, L2, L3/N	Three-phase AC power input terminal	*HD07-S/HD09/ HD09-S/HD20*
L1, L3/N	Single-phase AC power input terminal	
U, V, W	Inverter output terminal connected to three-phase AC motor	
(+), (-)	External braking unit	*Only for some models*
(+), BR	Terminal connected to braking resistor	
P1, (+)	External DC reactor, shorted by default	*Only for some models*
PE	Ground terminal, connected to protective ground	

Control Terminal

See control terminal layout below.

Interface	HD07-S	HD09	HD09-S	HD20	HD30	HD3N	HD50
DI1	●	●	●	●	●	●	●
DI2	●	●	●	●	●	●	●
DI3	●	●	●	●	●	●	●
DI4	●	● 2)	● 2)	●	●	●	●
DI5	● 2)			●	●	●	●
DI6				● 2)	● 2)	● 2)	● 2)
DO/DO1 1)	●	● 2)	● 2)	●	●	●	●
DO2	● 2)			● 2)	● 2)	● 2)	● 2)
AI/AI1 1)	● 3)	● 3)	● 3)	●	●	●	●
AI2	●			● 3)	● 3)	● 3)	● 3)
AI3							● 3)
AO/AO1 1)	●	●	●	● 3)	● 3)	● 3)	● 3)
AO2				● 3)	● 3)	● 3)	● 3)
RLY1	●	●	●	●	●	●	●
+10V	●	●	●	●	●	●	●
-10V							●
RJ45		●	●	●	●	●	●
A/B	●				●		
Encoder							●

1): DO, AI, AO is for HD09/HD09-S, AO is for HD07-S, DO1, AI1, AO1 is for the rest products.

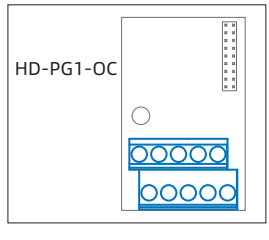
2): The terminal can be selected as high-speed pulse input/output.

3): The terminal can be selected as input voltage/current. HD07-S is set through F16.29, and other products are set through jumpers or DIP switches.

Encoder Card

HD50 products are equipped with HD-PG1-OC as standard. See terminal descriptions below.

Terminal	Description
PGP	+12V power output
COM	Power ground
A+, A-	Encoder A+/A- signal
B+, B-	Encoder B+/B- signal
Z+, Z-	Encoder Z+/Z- signal



Function Parameters

Instruction:

For the description of each product terminal, see control terminal (electrical installation) or remarks (function parameter).

Ref. Code	Function	Register Address	Remark
Status Display Parameters			
D00.08	Inverter rated current (A)	0x3308	
D00.14	Setting frequency (Hz)	0x330E	
D00.15	Given frequency (Hz)	0x330F	
D00.16	Output frequency (Hz)	0x3310	
D00.17	Setting speed (rpm)	0x3311	
D00.18	Running speed (rpm)	0x3312	
D00.20	Output voltage (V)	0x3314	
D00.21	Output current (A)	0x3315	
D00.22	Torque reference (%)	0x3316	
D00.23	Output torque (%)	0x3317	
D00.24	Output power (kW)	0x3318	
D00.25	DC bus voltage (V)	0x3319	
D00.27	AI1 input voltage (V)	0x331B	*HD09/HD09-S is AI*
D00.29	AI2 input voltage (V)	0x331D	
D00.31	AI3 input voltage (V)	0x331F	
D00.35	DI6 terminal pulse input frequency (Hz)	0x3323	*HD07-S is DI5* *HD09/HD09-S is DI4*
D00.36	AO1 output	0x3324	*HD07-S/HD09/* *HD09-S is AO*
D00.37	AO2 output	0x3325	
D00.38	DO2 high-speed output pulse frequency (Hz)	0x3326	*HD09/HD09-S is DO*
D00.39	Radiator temperature (℃)	0x3327	*HD07-S none*
D00.50	Input terminal status	0x3332	
D00.51	Output terminal status	0x3333	

Ref. Code	Function	Setting Range	Default	Remark
Basic Parameters				
F00.01	Motor control mode selection	0: V/f control without PG 2: Vector control without PG 5: PM with PG vector control	0	*Only HD50 has 5*
F00.06	Max. output frequency of inverter	50.00 - 400.00Hz	50.00Hz	
F00.08	Max. running frequency	0.00Hz - F00.06	50.00Hz	
F00.09	Min. running frequency	0.00Hz - F00.08	0.00Hz	
F00.10	Frequency setting channel selection	0: Keypad setting 1: Terminal setting 2: SCI communication setting 3: Analog setting 4: Terminal pulse setting 6 - 9: AI1 - AI4 setting 10: Keypad potentiometer setting	0	*HD09/ HD20 don't have 6 - 10*
F00.11	Command setting channel selection	0: Keypad setting 1: Terminal setting 2: SCI communication setting	0	
F00.13	Starting frequency digital setting	0.00Hz - Max. frequency	50.00Hz	
F00.15	Jog operation frequency digital setting 1	0.00Hz - Max. frequency	5.00Hz	
F00.17	Running direction selection	0: Same direction 1: Reverse direction	0	
F01.00	User password	00000 - 65535	0	
F01.02	Function code parameter initialization (parameter download)	0: No operation 1: Restore factory parameters 2/3: The keypad storage parameter 1/2 is copied to control board and update the current parameter setting value 4: Clear the fault	0	

Function Parameters

Ref. Code	Function	Setting Range	Default	Remark
F01.03	Parameter copy to keypad (parameter upload)	0: No operation 1/2: The current parameter setting value is copied to the keypad storage parameter 1/2	0	
F03.01	Acc. time 1	0.1 - 6000.0s	Depend on model	
F03.02	Dec. time 1	0.1 - 6000.0s		
F06.00 - F06.07	Multi-segment frequency command 1 - 8	F00.09 - Max. frequency	5.00Hz	
PID Parameter				
F04.00	PID control selection	0: Invalid 1: Valid	0	
F04.01	Given channel selection	0: Digital given 1: Analog given 2: Terminal pulse given 3 - 6: AI1 - AI4 given 7: Keypad potentiometer given	0	*HD07-S doesn't have 3 - 7*
F04.02	Feedback channel selection	0: Analog feedback 1: Terminal pulse feedback 2 - 5: AI1 - AI4 given 6: Keypad potentiometer given 7: Speed closed-loop feedback	0	*HD07-S doesn't have 2 - 7*
F04.03	Quantitative digital setting	-100.0 - +100.0%	0.0%	
F04.04	Proportional gain (P1)	0.0 - 500.0	50.0	
F04.05	Integration time (I1)	0.01 - 10.00s	1.00s	
F04.07	Derivative time (D1)	0.00 - 10.00s	0.00s	

Motor and Encoder Parameters				
F08.00	Motor rated power	0.2 - 999.9kW	Depend on model	
F08.01	Motor rated voltage	0 - 999V		
F08.02	Motor rated current	5.5kW and below: 0.01 - 250.00A About 5.5kW: 0.1 - 2500.0A		
F08.03	Motor rated frequency	1.0 - 400.0Hz	50.0Hz	
F08.04	Motor rated RPM	1 - 24000rpm	Depend on model	
F08.06	Motor parameter auto-tuning	0: No action 1: Static auto-tuning 2: Rotation auto-tuning	0	*HD09 doesn't have 2*
F09.00	Motor V/f curve setting	0: Straight line 1: Square curve	0	*HD09 none*
F09.07	Motor torque boost	0.0 - 30.0% 0.0: Auto torque boost	Depend on model	
F14.00	Encoder feedback signal type	0: Invalid 1: ABZ signal 2: UVW signal 3: SINCOS signal	0	*Only HD50 has*
F14.01	Encoder pulses per revolution	1 - 9999	1024	
F14.02	Encoder rotation direction setting	0: Same direction 1: Reverse direction	0	

Function Parameters

Ref. Code	Function	Setting Range	Default	Remark
Digital and Analog I/O Terminal Parameters				
F15.00	DI1 terminal function	0: Unused 1: Inverter is enabled 2, 3: FWD/REV function 13 - 16: Multi-segment frequency terminal 1 - 4 20, 21: FWD/REV Jog 1 command control input (JOGF1/JOGR1) 43: Emergency stop 46: External reset (RST) input 53: Pulse frequency input (HD07-S is DI5, HD09/HD09-S is DI4, the rest is DI6)	2	
F15.01	DI2 terminal function		3	
F15.02 - F15.05	DI3 - DI6 terminal function		0	
F15.14	Terminal detection filtering times	0 - 10000	2	
F15.15	Terminal input positive and negative logic setting	Bit0 - Bit8 corresponds to DI1 - DI9 Bitx: DIy terminal input positive and negative logic 0: Positive logic 1: Negative logic	000	
F15.18	DO1 terminal function	0: Unused 2: Inverter running (RUN) 9: Frequency level detection signal 11: Frequency arrival signal (FAR) 31: Inverter fault 38: High-speed pulse output (HD09/HD09-S is DO, the rest is DO2)	2	*HD09/HD09-S is DO*
F15.19	DO2 terminal function		0	
F15.20	RLY1 relay function		31	
F15.27	FAR detection width	0.00 - 100.00Hz	2.50Hz	

F15.30	FDT1 detection mode	0: Detect according to the reference frequency 1: Detect according to the output frequency	0	*HD07-S none*
F15.31	FDT1 level	0.00Hz - Max. frequency	50.00Hz	
F15.32	FDT1 lag	0.00Hz - Max. frequency	1.00Hz	
F16.00	Keypad potentiometer function	0: Unused 2: Frequency setting 4: Process PID given 5: Process PID feedback	0	
F16.01	AI1 terminal function		2	*HD09/HD09-S is AI*
F16.02	AI2 terminal function		5	
F16.03	AI3 terminal function		0	
F16.17	Max. input pulse frequency	0 - 50000Hz	10000Hz	*HD07-S is DI5 HD09/HD09-S is DI4*
F16.19	AO1 terminal function	0: Unused 1: Output frequency (0 - Max. output frequency) 2: Given frequency (0 - Max. output frequency) 3: Motor RPM (0 - Max. output frequency) 4: Output current (0 - twice motor's rated current)	2	*HD07-S/HD09/HD09-S is AO*
F16.20	AO2 terminal function		0	
F16.21	High-speed pulse output function		0	
F16.26	DO2 Max. output pulse frequency	0.1 - 50.0kHz	10.0kHz	*HD09/HD09-S is DO*
F16.29	AI1 voltage current input selection	0: Voltage input 1: Current input	0	*Only HD07-S*

Function Parameters

Ref. Code	Function	Setting Range	Default	Remark
Communication Parameters				
F17.00	Data format	0: 1-8-2 format, no parity, RTU 1: 1-8-1 format, even parity, RTU 2: 1-8-1 format, odd parity, RTU 6: 1-8-1 format, no parity, RTU	0	
F17.01	Baud rate selection	0: 1200bps 1: 2400bps 2: 4800bps 3: 9600bps 4: 19200bps 5: 38400bps 6: 57600bps 7: 76800bps 8: 115200bps	3	*HD09/ HD20 does n·t have 6 - 8*
F17.02	Local address	0 - 247	2	

Ref. Code	Function
Fault Parameters	
F20.21	Fifth (latest) failure type
F20.22	Given frequency at the last fault
F20.23	Running frequency at the last fault
F20.24	Bus voltage at the last fault
F20.25	Output voltage at the last fault
F20.26	Output current at the last fault
F20.27	Input terminal status at the last fault
F20.28	Output terminal status at the last fault
F20.29	Interval at the last fault
F20.30	Fourth fault type
F20.31	Fourth fault interval
F20.32	Third fault type
F20.33	Third fault interval
F20.34	Second fault type
F20.35	Second fault interval
F20.36	First fault type
F20.37	First fault interval
F20.38	Last fault interval

Troubleshooting

Fault		Countermeasure	Remark
No display when power on		• Check the input power voltage • Check the bus voltage • Reconnect the keypad, or check the wiring of the control board, drive board, and keypad • Contact factory for repair	
-Lu-	DC bus undervoltage	• Normal power-on and power-down status, no processing required • Check input power voltage • Check wiring and wire the inverter properly	
E0001	Inverter output overcurrent (Acc.)	• Connect the inverter and motor properly • Correctly set F08.00 - F08.04/ F13.01 - F13.05 (motor parameters) • Choose the right inverter power • Set proper F03.01 - F03.08 (Acc. and Dec. time) • Select the speed tracking start mode (F02.00 = 2) • Perform parameter auto-tuning (F08.06/F13.07)	
E0002	Inverter output overcurrent (Dec.)		
E0003	Inverter output overcurrent (constant speed)		
E0004	DC bus overvoltage (Acc.)	• Check input power voltage • Set proper F03.02/F03.04/F03.06/ F03.08 (Dec. time) • Check wiring and wire the inverter properly • Select the speed tracking start mode (F02.00 = 2) • Select the recommended braking devices	
E0005	DC bus overvoltage (Dec.)		
E0006	DC bus overvoltage (constant speed)		
E0007	Overvoltage stall	• Check power input or the function of brake • Set proper F19.19 (overvoltage stall point)	

E0008	Power module fault	• Check wiring and wire the inverter properly • Check the connection and mechanism • Contact the supplier for repairing	*HD07-S none*
E0009	Heatsink overheat	• Derated use, amplified power • Improve the ventilation around the inverter • Replace the fan • Seek technical support	
E0010	Brake unit fault	• Seek technical support	
E0011	CPU fault	• Power on and observe after completely power down • Seek technical support	*HD07-S none*
E0012	Parameter auto-tuning fault	• Check the motor's connection • Correctly set F08.00 - F08.04/ F13.01 - F13.05 (motor parameters) • Seek technical support	
E0013	Contactor is not actuated	• Replace the contactor • Seek technical support	*HD07-S none*
E0014	Current detection circuit fault	• Contact the supplier for repairing	
E0015	Input phase loss	• Check three-phase input power • Seek technical support	*HD09/ HD09-S none*
E0016	Output phase loss	• Check the wiring between the inverter and the motor • Check motor quality	
E0017	Inverter overload	• Adjust F03.01/F03.03/F03.05/F03.07 (Acc. time) • Correctly set F08.00 - F08.04/ F13.01 - F13.05 (motor parameters) • Adjust F09.00 - F09.06 (V/f curve) or F09.07/F09.08 (torque boost) • Perform parameter auto-tuning (F08.06/F13.07) • Select the speed tracking start mode (F02.00 =2) • Check mains supply voltage • Select a power-matched inverter	

Troubleshooting

Fault		Countermeasure	Remark
E0018	Inverter output offload	• Check load and mechanical transmission • Set proper F20.03 - F20.05	*HD09/ HD09-S none*
E0019	Motor overload	• Adjust proper F09.00 - F09.06 (V/f curve) • Check the input power • Long-term low-speed and large-load operation, replace the inverter motor • Check load and mechanical transmission	
E0020	Motor overheat	• Reduce load; Repair and replace motors • Increase F03.01 - F03.08 (Acc. and Dec. time) • Correctly set F08.00 - F08.04/ F13.01 - F13.05 (motor parameters)	*HD09/ HD09-S/ HD20 none*
E0021	Control board EEPROM read and write fault	• Contact the supplier for repairing	
E0022	Keypad EEPROM read and write fault	• Replace the keypad • Contact the supplier for repairing	
E0023	Parameter setting fault	• Select a motor that matches the inverter power • Correctly set F08.00 - F08.04/ F13.01 - F13.05 (motor parameters)	
E0024	External device fault	• Check external device	

E0025	PID reference loss	• Check wiring • Seek technical support	*HD07-S HD09/ HD09-S none*
E0026	PID feedback loss		
E0027	PID feedback overrun		
E0028	SCI communication timeout	• Check wiring • Correctly set F17.00/F17.01 (communication format/baud rate) • Send data according to Modbus protocol content	
E0029	SCI communication error		
E0030	Encoder reverse	• Check the encoder and motor wiring	*Only HD50 have*
E0031	Encoder disconnected	• Check the encoder • Check the encoder wiring	
E0032	Motor over speed	• Check motor and load	
E0033	Motor speed out of tolerance		
E0034	Tension control system fracture of material	• Check wiring • Check the encoder	

Note: E0022 does not affect the normal running of the inverter.

Quick Start

Set the Motor Parameters (Refer to the Motor Nameplate)

Ref. Code	Function
F08.00	Motor 1 rated power
F08.01	Motor 1 rated voltage
F08.02	Motor 1 rated current
F08.03	Motor 1 rated frequency
F08.04	Motor 1 rated RPM

Mode 1: Use the Keypad to Control Start and Stop and Set the Running Frequency

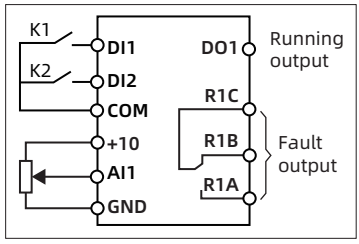
1. Use the keypad to set the motor parameters and the parameters see the table below.

Ref. Code	Function	Setting Value	Description
F00.10	Frequency setting channel	0 (factory default)	Digital setting of keypad
F00.11	Command setting channel	0 (factory default)	Keypad setting
F00.13	Starting frequency digital setting	-	Adjust according to actual needs
F03.01/ F03.02	Acc./Dec. time 1	-	Adjust according to actual needs

2. Press the **RUN** key on the keypad to start the inverter.
   Press ▲/▼ key to increase/decrease the setting frequency.
   Press **STOP** key to stop the inverter output.

Mode 2: Use Terminals to Control Start/Stop and Analog Setting Running Frequency

1. DI1 is a forward signal and DI2 is a reverse signal. See the right figure for wiring.
2. Use keypad to set the motor parameters and the parameters see the table below.



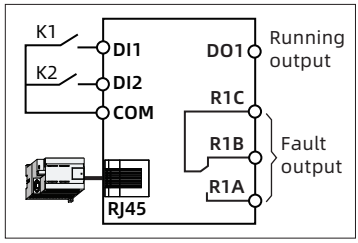
Ref. Code	Function	Setting Value	Description
F00.10	Frequency setting channel	3	Analog setting
F00.11	Command setting channel	1	Terminal setting
F03.01/ F03.02	Acc./Dec. time 1	-	Adjust according to actual needs
F15.00	DI1 terminal function	2 (factory default)	Forward
F15.01	DI2 terminal function	3 (factory default)	Reverse
F16.01	AI1 terminal function	2 (factory default)	Frequency setting channel

3. Set the running frequency by adjusting the AI1 analog input.
4. When K1 turns on, the motor runs forward, and when K1 turns off, the motor stops running.
   When K2 turns on, the motor runs in reverse, and when K2 turns off, the motor stops running.
   When K1 and K2 turn on/off at the same time, the motor will stop running.

Quick Start

Mode 3: Use Terminals to Control Start/Stop and Communication Setting Running Frequency

1. DI1 is a forward signal and DI2 is a reverse signal. See the right figure for wiring.
2. Use keypad to set the motor parameters and the parameters see the table below.



Ref. Code	Function	Setting Value	Description
F00.10	Frequency setting channel	2	SCI communication setting
F00.11	Command setting channel	1	Terminal setting
F03.01/ F03.02	Acc./Dec. time 1	-	Adjust according to actual needs
F15.00	DI1 terminal function	2 (factory default)	Forward
F15.01	DI2 terminal function	3 (factory default)	Reverse
F15.18	DO1 terminal function	2 (factory default)	Inverter running
F17.00	Data format	0 (factory default)	1-8-2 format, no parity, RTU
F17.01	Baud rate	3 (factory default)	9600bps
F17.02	Local address	2 (factory default)	

3. When K1 turns on, the motor runs forward, and when K1 turns off, the motor stops running.

   When K2 turns on, the motor runs in reverse, and when K2 turns off, the motor stops running.

   When K1 and K2 turn on/off at the same time, the motor will stop running.
4. SCI communication modify the operating frequency (function code 0x06 write register 0x3201).

Note: For details of the Modbus communication protocol, please refer to the user manual of each product.

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