

# I. Overview

The HHD7-H series forward-reverse rotation controller (hereinafter referred to as "the controller") is applicable as a control device in control circuits with AC 50Hz and a working voltage of 380V or below. It controls the intermediate operation, reverse rotation and stop of the motor according to the preset time. This series of controllers complies with the relevant requirements of GB/T 14048.5.

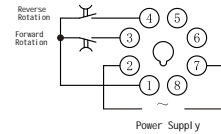
# II. Main Technical Data

- Working power supply (control power supply voltage): AC220V, 380V 50Hz; allowable voltage fluctuation range: (85%~110%)Ue.
- Repeat error: 1%.
- Contact capacity: 3A AC250V (resistive load) (usage category AC-15).
- Mounting method: Unit mounting, DIN rail mounting.
- Ambient temperature: -5 ~ -40
- Altitude: 2000m.
- Humidity: When the maximum temperature at the installation site is 40, the relative humidity of the air is 50%. Higher relative humidity is allowed at lower temperatures (e.g., up to 90% at 20). Special measures shall be taken for condensation occasionally caused by temperature changes.
- Control time: (See Table 1).
- Pollution degree: Class 3.
- Conventional heating current Ith: 5A.
- Rated insulation voltage Ui: 250V.
- Rated impulse withstand voltage Uimp: 4kV.

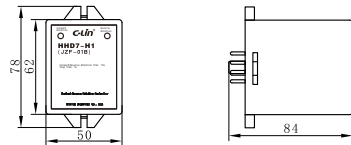
**Note:** The base required for installation shall be purchased separately by the user, and the base model is 8PFA.

Model	HHD7-H1 (JZF-01B)	HHD7-H2 (JZF-06E)	HHD7-H3 (JZF-07E)
Control Time	Forward (Reverse) rotation: 10s, 20s Stop: 5s	Forward (Reverse) rotation: (1, 2, 4, 8, 16, 32) × 1s Stop: (1, 2, 4, 8) × 0.5s	Forward (Reverse) rotation: (1, 2, 4, 8) × 1s (1, 2, 4, 8) × 1s Stop: (1, 2, 4, 8) × 1s

# III. Wiring Diagram



# IV. Outline Dimension Drawing (mm)



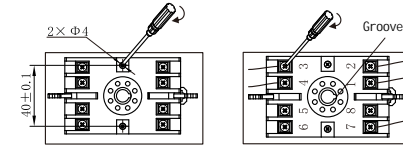
# V. Operating Instructions

The indicator lights on the product panel show the current working status: When the forward rotation indicator light is on, it means the 1-3 changeover contacts are connected. When the reverse rotation indicator light is on, it means the 1-4 changeover contacts are connected. When neither the forward nor reverse rotation indicator light is on, it means neither 1-3 nor 1-4 contacts are connected — this is the stop time.

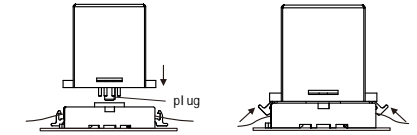
# VI. Installation Methods (Taking HHD7-H1 (JZF-01B) as an Example)

- Unit-mounted installation: (1) (2) (3) (4)
- DIN rail mounting: (5) (6) (7) (8)

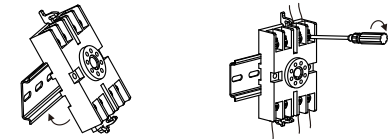
**Note:** The main circuit power supply must be cut off before installation or disassembly.



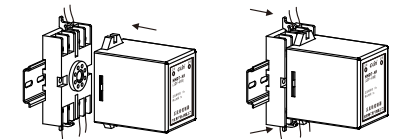
- Unit-mounted installation: Tighten the mounting screws
- Connect the wires according to the base serial number and tighten the terminal screws



- Unit-mounted installation: Install the relay, align the protruding platform of the top plug with the groove of the base
- Unit-mounted installation: Close the hook



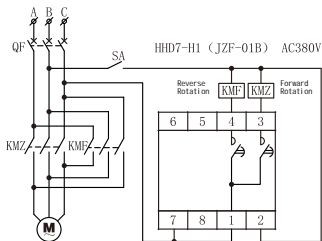
- DIN rail mounting: Snap the base into the guide rail
- DIN rail mounting: Connect the wires according to the base serial number and tighten the terminal screws



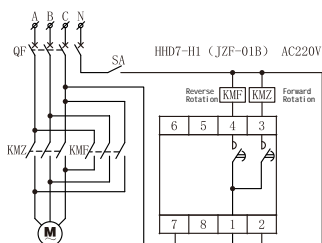
- DIN rail mounting: Install the relay, align the protruding platform of the top plug with the groove of the base
- DIN rail mounting: Close the hook

# VII. Application Circuit Example [Taking HHD7-H1 (JZF-01B) as an Example]

Example 1



Example 2



When the product and AC contactor are rated at AC380V, refer to Wiring Example 1; when the product and AC contactor are rated at AC220V, refer to Wiring Example 2. When the product and AC contactor are rated at AC380V, refer to Wiring Example 1; when the product and AC contactor are rated at AC220V, refer to Wiring Example 2. When the product and AC contactor are rated at AC380V, refer to Wiring Example 1; when the product and AC contactor are rated at AC220V, refer to Wiring Example 2. For the function described in this example: When the switch SA is closed, HHD7-H1 (JZF-01B) and AC contactor KMZ are energized, and the motor starts forward rotation. When the forward rotation delay expires, KMZ is de-energized, forward rotation stops, and HHD7-H1 (JZF-01B) starts the stop delay again. When the stop delay expires, AC contactor KMZ is re-energized, and forward rotation restarts... and so on in cycles.

# VIII. Ordering Instructions

Please specify the product model, voltage class, delay specification, and quantity when placing an order. If there are special requirements, please specify them separately. Please specify the product model, voltage class, delay specification, and quantity when placing an order. If there are special requirements, please specify them separately.  
**Example:** HHD7-H1 AC220V 15s, 100 pieces

**产品合格证**

符合标准: GB/T 14048.5

检验员: [ ]

出厂日期: 见产品或包装

本产品经检验合格, 准予出厂。

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**C-lin 欣灵**

使用说明  
Products Instructions

**HHD7-H Series**  
Forward-Reverse Rotation Controller

Thank you very much for using the C-lin brand forward-reverse rotation controller. Please read the user manual before use!

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