

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

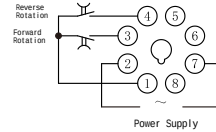
- Working power supply (control power supply voltage): AC220V, 380V 50Hz; allowable voltage fluctuation range: (85%~110%)Ue.
- Repeat error: $\leq 1\%$.
- Contact capacity: 3A AC250V (resistive load) (usage category AC-15).
- Mounting method: Unit mounting, DIN rail mounting.
- Ambient temperature: $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$.
- Altitude: $\leq 2000\text{m}$.
- Humidity: When the maximum temperature at the installation site is 40°C , the relative humidity of the air is 50%. Higher relative humidity is allowed at lower temperatures (e.g., up to 90% at 20°C). 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.

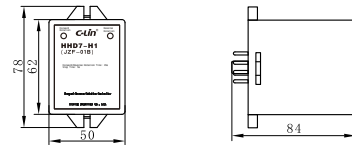
Table 1

Model	HHD7-H1 (JZF-01B)	HHD7-H2 (JZF-06E)	HHD7-H3 (JZF-07E)
Control Time	Forward (Reverse) rotation: 15s, 25s 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) × 0.5s Stop: (1, 2, 4, 8) × 1s

III.Wiring Diagram



IV.Outline Dimension Drawing (mm)



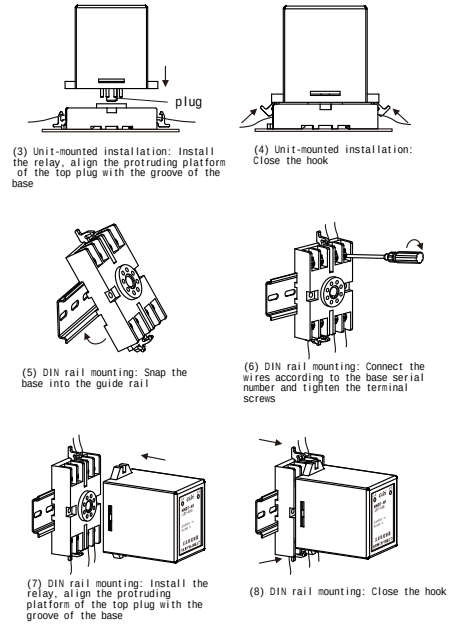
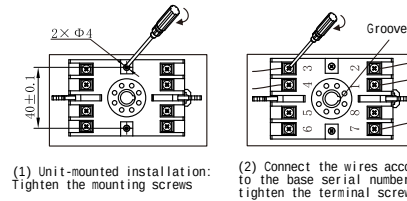
V.Operating Instructions

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)

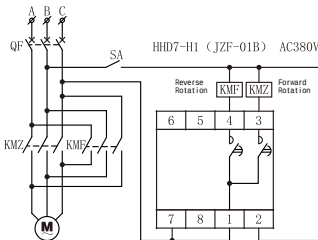
- Unit-mounted installation: (1) → (2) → (3) → (4)
- DIN rail mounting: (5) → (6) → (7) → (8)

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

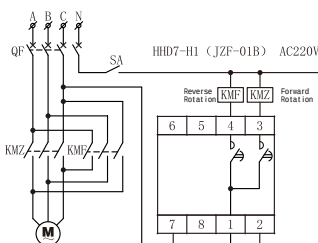


VII.Application Circuit Example [Taking HHD7-H1 (JZF-01B) as an Example]

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. When the stop delay expires, AC contactor KMF is energized, and the motor starts reverse rotation. When the reverse rotation delay expires, KMF is de-energized, reverse 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 1S, 100 pieces



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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!