

I. Overview

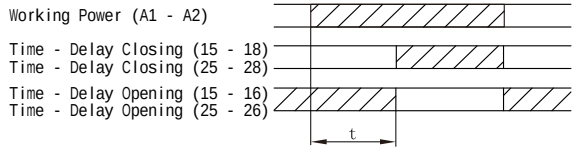
The HHS17P series time relays (hereinafter referred to as relays) are applicable as time - delay elements in control circuits with an AC/DC working voltage of 240V or below. They connect or disconnect the circuit as per the preset time. This series of relays meets the relevant requirements of GB/T 14048.5.

II. Main Technical Data

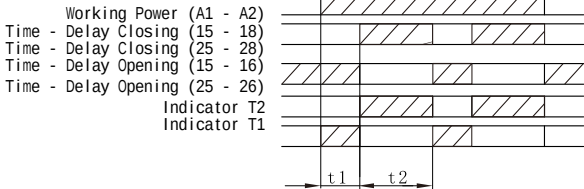
(Table)		
Model	HHS17P	HHS17PR
Working Power Supply (Control Power Voltage)	AC/DC24V, AC/DC100 - 240V; Allowable voltage fluctuation range (85% - 110%) Ue	
Working Mode	Power - on Delay	Cycle Delay
Setting Method	2 - digit digital band - base toggle switch setting	
Time - delay Range	0.1s - 99h adjustable time - delay specifications	
Repeat Error	When the time - delay range is > 1s, Er ≤ 1%; When the time - delay range is < 1s, Dr ≤ 50ms	
Number of Contacts	2 sets of time - delay change - over contacts	
Contact Capacity	3A AC250V (resistive)	
Ambient Temperature	-5℃~40℃	
Altitude	≤2000m	
Humidity	At the installation site, when the maximum temperature is 40 °C, the relative humidity of air ≤50%. At lower temperatures, higher relative humidity is allowed (e.g., 90% at 20 °C). Special measures should be taken for occasional condensation caused by temperature changes.	

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IV. Working Timing Diagrams



HHS17P

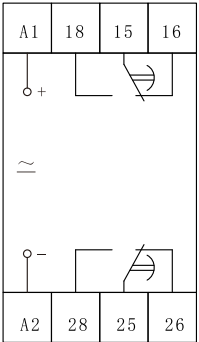


HHS17PR

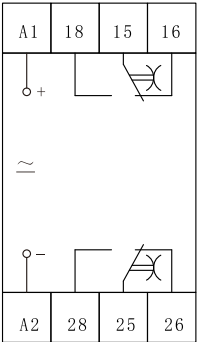
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Table (Continued)		
Model	HHS17P	HHS17PR
Pollution Degree	3	
Installation Method	Device - type, 35mm DIN rail - type	
Conventional Heating Current Ith	5A	
Rated Insulation Voltage Ui	400V	
Rated Impulse Withstand Voltage Uimp	2.5KV	
Ue/Ie	Under the usage category, each rated working voltage Ue/rated working current Ie: AC - 15, Ue: AC250V, Ie: 3A	

III. Wiring Diagrams



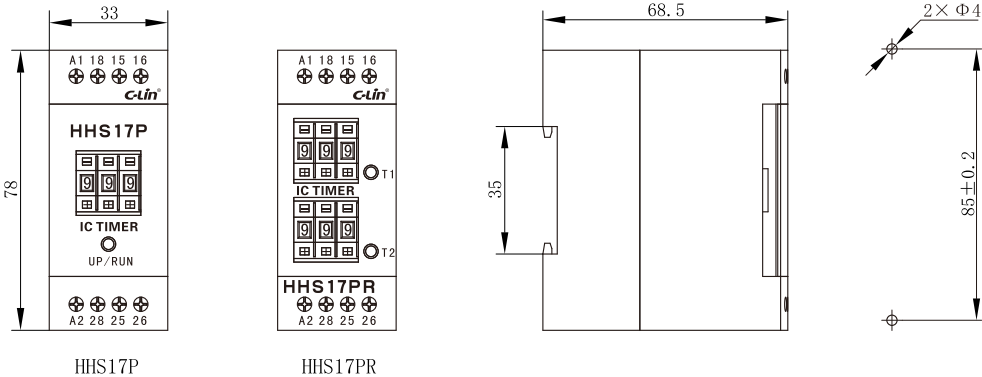
HHS17P



HHS17PR

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V. Outline and Mounting Hole Dimension Diagrams (mm)



VI. Instructions for Use

- 1.Connect the product to the control circuit by referring to the wiring diagram on the relay cover label and the circuit examples in Section VIII.
- 2.Adjust the DIP switches to preset the delay time. When the power is turned on, the relay will start to operate according to the corresponding working sequence described in Section IV.
- 3.The interval between repeated startups of the relay should be at least 0.5 seconds.

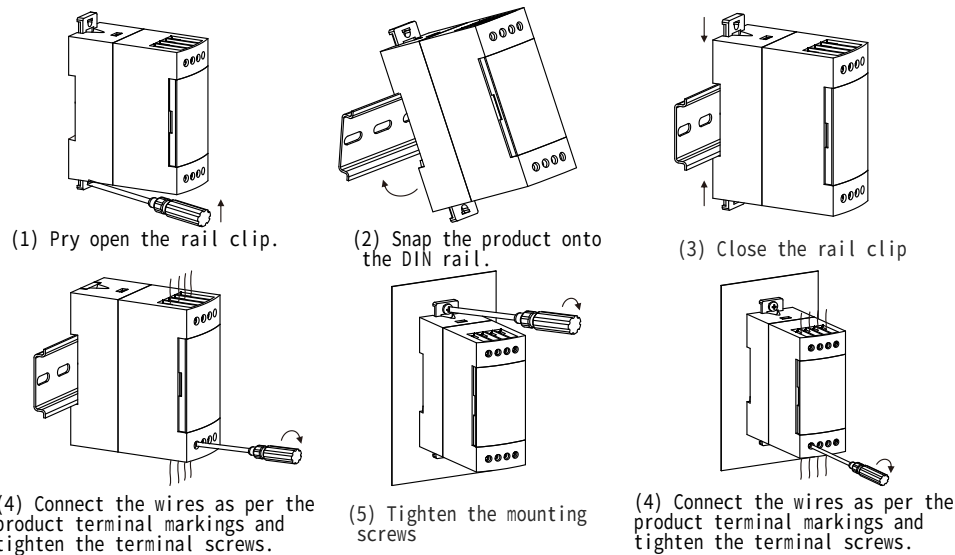
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VII. Installation Methods

1. Rail - type Installation: (1) → (2) → (3) → (4)

2. Device - type Installation: (1) → (5) → (6)

Note: The main circuit power supply must be disconnected before installation or removal to ensure safety.



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1. Single - phase Loads: When the resistive current of the load is $\leq 3A$ or the inductive current is $\leq 0.5A$, the relay directly controls the load. Refer to Example 1 for wiring. When the resistive current of the load is $>3A$ or the inductive current is $>0.5A$, the relay uses an AC contactor for capacity expansion. Refer to Example 2 for wiring. For three - phase loads, when the power supply for the AC contactor and the relay is AC220V, refer to Example 3 for wiring.

2. Function of the Relay in the Examples: When the power is connected, the load or the AC contactor (KM) is energized. After the preset time - delay is reached, the load or KM is de - energized.

Note 1: The load can be a street lamp or a bulb, which can be directly connected to the two wires at the lamp port, as shown in Example 1.

Note 2: KM is the coil of the AC contactor. The two ends A1 and A2 can be wired according to Example 2 and Example 3.

Note 3: In Example 3, the working power supply for both the relay and KM is AC220V. Pay attention to the voltage rating of the selected product.

IX. Ordering Information

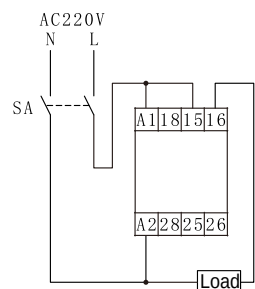
The product model, voltage rating, time - delay range, and quantity need to be specified. If there are special requirements, they should be noted separately.

For example: HHS17P AC/DC100 - 240V, 100 pieces.

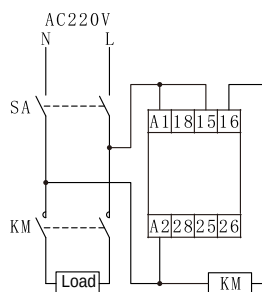
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VIII. Application Circuit Examples (Taking HHS17P as an Example)

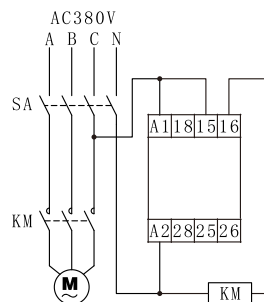
Example 1



Example 2



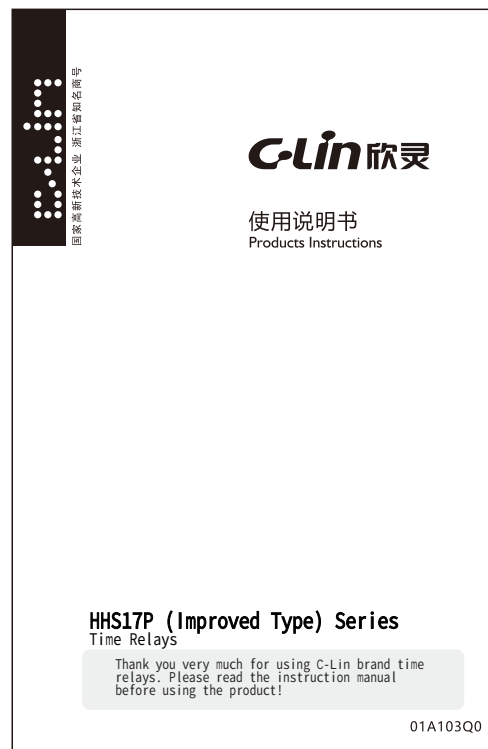
Example 3



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