

I. Overview

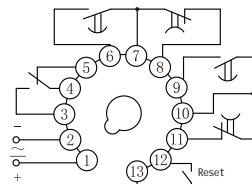
The HHS11 (JS11S) improved time relay (hereinafter referred to as the relay) belongs to the on - energization time - delay type. It is suitable for use as a time - delay element in control circuits with an alternating current of 50Hz, a rated working voltage of 380V or less, or a direct - current working voltage of 24V. It can connect or disconnect the circuit according to the preset time. This relay complies with the relevant requirements of GB/T 14048.5.

II. Main Technical Data

- Working Power Supply (Control Power Supply Voltage): AC380V, AC220V, AC110V, AC36V, AC24V at 50Hz, DC24V. The allowable voltage fluctuation range is (85% - 110%) of U_e .
- Time - delay Range: 0.01s - 99.99s, 1s - 99m59s, 1m - 99h9m.
- Repeat Error: When the time - delay range is greater than 1s, Er = 1%; when the time - delay range is less than 1s, Er = 50ms.
- Working Mode: On - energization time - delay type.
- Number of Contacts: 1 set of instantaneous conversion contacts and 2 sets of time - delay conversion contacts.
- Contact Capacity: 3A AC250V (resistive).
- Mounting Method: Panel - type.
- Ambient Temperature: - 5° C - 40° C.
- Altitude: 2000m.
- Pollution Degree: 3.
- Humidity: When the maximum temperature at the installation site is 40° C, the relative humidity of the air = 50%. At relatively low temperatures, a higher relative humidity is allowed, for example, at 20° C it can reach 90%. Special measures should be taken for condensation caused by temperature changes.
- Conventional Heating Current (I_{th}): 5A.
- Rated Insulation Voltage (U_i): 400V.
- Rated Impulse Withstand Voltage (U_{imp}): 2.5KV.
- U_e/I_e : Under the usage category, each rated working voltage U_e /rated working current I_e : AC - 15, U_e : AC250V, I_e : 3A.

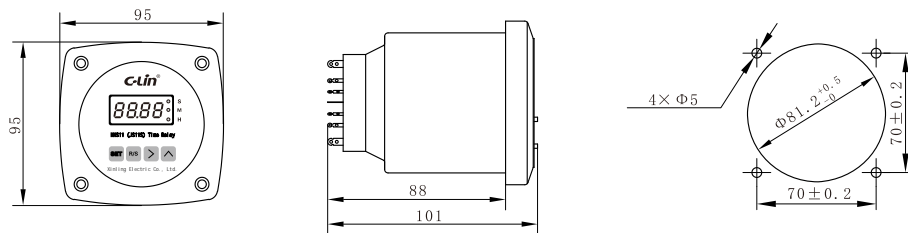
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III. Wiring Diagram



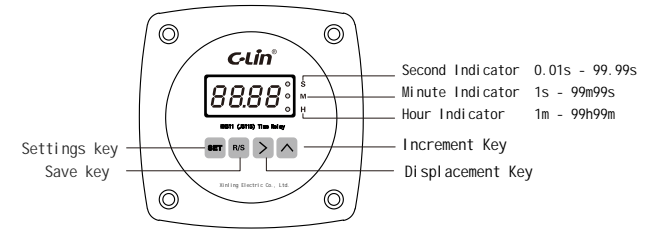
HHS11 (JS11S)

IV. Outline and Cutout Dimension Diagram (mm)



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V. Description of Panel and Key Functions



"**SET**" Key : Press to enter the product setting mode. During operation, press it to query the set values.

"**R/S**" Key : In the setting mode, press to save the configured parameters. It has no function during operation.

"**>**" Key : In the setting mode, press to move the parameter to be set. It is ineffective during operation.

"**^**" Key : In the setting mode, press to incrementally adjust the parameter to be set. It does not work during operation.

Notes:

- In the setting mode, if there is no operation for 30 seconds, it will return to the running state.
- Press the ">" and "^" keys at the same time to reset the product.

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VI. Instructions for Use

In the time parameter setting, users can configure as required. Owing to the product's memory function, the parameter setting state shown after power - on is the last one. Take setting the timing value to 12h34m with the last setting being 00.00s as an example.

- Connect the product to the control circuit by referring to the wiring diagram on the relay housing label and the circuit examples in Article 7.
- During operation, press the setting key to query and modify settings at any time. Setting and operation can be done concurrently without halting the operation.



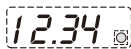
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Press the ">" key once to enter

The second - indicator light flashes.



Press the "^" key twice.

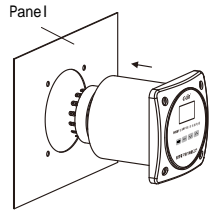


The hour indicator light flashes

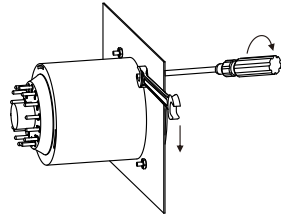
Once the setting is complete, press the "R/S" key to save. The product will operate according to the original program. When a new program needs to be run, power off the product and then power it back on. The product will count down from the set value in descending order.

VII. Installation Method

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

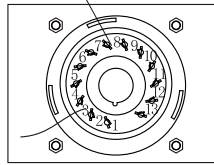


(1) Panel - type Installation: Insert the relay into the panel.



(2) Panel - type Installation: Install the mounting screws and tighten them with a wrench.

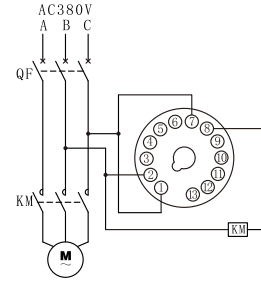
Base sequence number



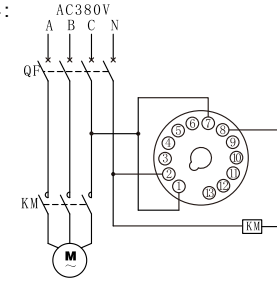
(3) Panel - type Installation: Solder wires according to the base sequence number. The soldering time should not be too long, and each soldered terminal should be covered with an insulating sleeve.

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Example 3:



Example 4:



1. Single - phase Load: When the resistive current of the load is 3A or the inductive current is 0.5A, the relay directly controls the load. For wiring, refer to Example 1. When the resistive current of the load is > 3A or the inductive current is > 0.5A, the relay increases its capacity through an AC contactor. For wiring, refer to Example 2. Three - phase Load: When the power supply for both the AC contactor and the relay is AC380V, refer to Example 3 for wiring. When the power supply for both the AC contactor and the relay is AC220V, refer to Example 4 for wiring.

2. Function of the Relay in Examples

When the power is connected, the load or KM (AC contactor) is energized. When the delay reaches the preset value, the load or KM (AC contactor) is de - energized.

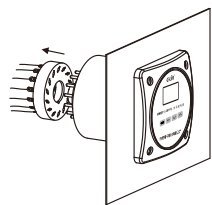
Notes: Note 1: The load can be a street lamp or a bulb, which can be directly connected to the two wires at the port of the street lamp or bulb (as shown in Example 1). Note 2: KM is the coil of the AC contactor. Terminals A1 and A2 can be wired according to Examples 2, 3, and 4. Note 3: In Example 3, both the relay and KM operate with an AC380V power supply. Pay attention to the voltage rating of the selected product.

IX. Ordering Instructions

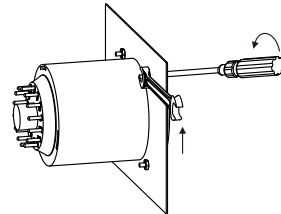
Specify the product model, voltage rating, and quantity. If there are special requirements, note them separately.

Example: HHS11 AC220V 100 pieces.

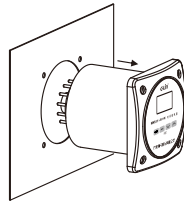
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(4) Panel - type Dismantling: Pull out the base.



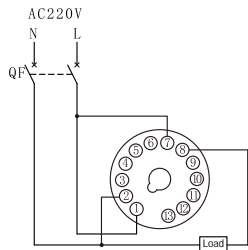
(5) Panel - type Dismantling: Loosen the mounting screws.



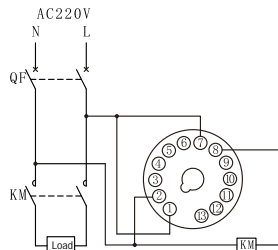
(6) Panel - type Dismantling: Pull out the relay.

VIII. Application Circuit Examples (Taking HHS11 (JS11S) as an Example)

Example 1:



Example 2:



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国家高新技术企业 浙江著名商标

C-Lin 欣灵

使用说明书
Products Instructions

HHS11 (Improved Type)
Time Relay

Thank you very much for using the C-Lin brand time relay. Please read the instruction manual before using the product!

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