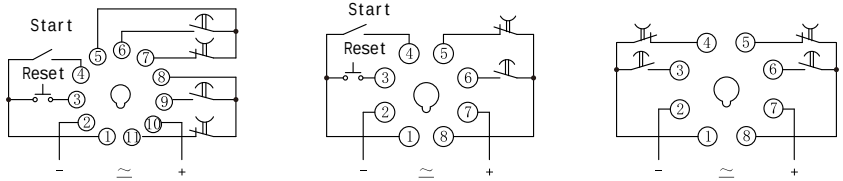
I. Purpose

The HHS6A series time relays (hereinafter referred to as relays) are suitable for use as time - delay elements in control circuits with an alternating current of 50Hz, a working voltage of 380V or below, or a direct - current working voltage of 24V, to connect or disconnect the circuit according to the preset time.
This series of relays complies with the relevant requirements of GB/T 14048.5.

II. Main Technical Data

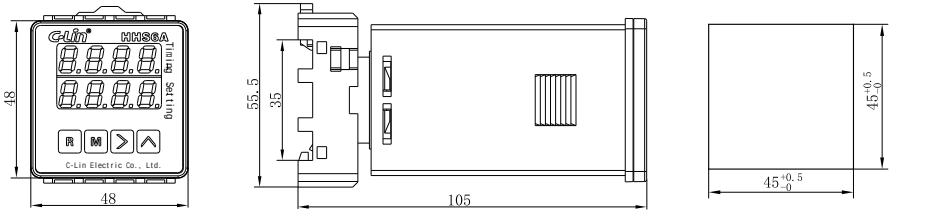
Product Model	HHS6A	HHS6A-1	HHS6A-2
Working Power Supply (Control Circuit Voltage)	AC380V, AC220V, AC110V, AC36V, AC24V 50Hz; DC24V, allowable voltage fluctuation range is (85%～110%)Ue		
Delay Range	0.01s～99.99s, 1s～99m99s, 1m～99h99m, 1m～9999m, 1h～9999h, 10h～99990h can be set		
Repeat Error	When the delay range is greater than 1s, Er≤1%; when the delay range is less than 1s, Dr≤50ms		
Working Mode	Power - on delay/release delay adjustable		
Number of Contacts	2 groups of delay contact conversion (with reset and start functions)	2 groups of delay contact conversion (with reset and start functions)	1 group of delay contact conversion (with reset and start functions)
Contact Capacity	3A AC250V (resistive)		
Ambient Temperature	-5℃～40℃		
Altitude	Not exceeding 2000m		
Humidity	When the maximum temperature at the installation site is 40℃, the relative humidity of the air does not exceed 50%. At lower temperatures, a higher relative humidity is allowed. For example, at 20℃, it can reach 90%. Special measures should be taken to prevent condensation due to temperature changes		
Pollution Degree	3 - level		
Installation Method	Panel - type, rail - type, device - type		
Ue/Ie	Under each usage category, rated working voltage Ue/rated working current Ie: AC - 15 Ue: AC250V, Ie: 3A.		
Conventional Heating Current Ith	5A		
Rated Insulation Voltage Ui	400V		
Rated Impulse Withstand Voltage Uimp	2.5KV		

III. Wiring Diagram

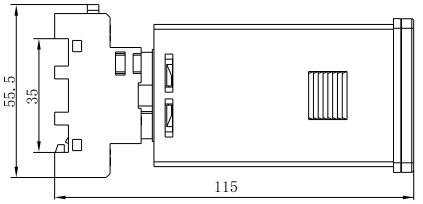


HHS6A　　HHS6A-1　　HHS6A-2

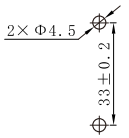
IV. Overall and Cutout Dimensions (mm)



HHS6A-1、HHS6A-2　　Panel - type Cutout Dimension

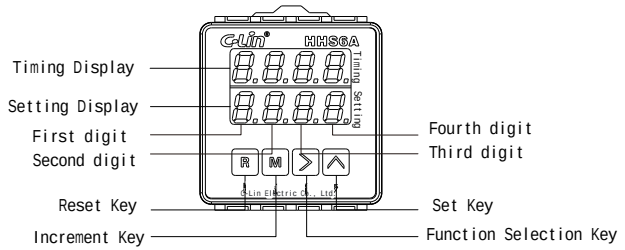


HHS6A



Device - type Cutout Dimension

V. Panel Description



"M" key:

Press the "M" key continuously, and the parameter settings will appear as "P0"、"P1"、"P2"、"P3"、"P4",in sequence. "P0" will not be displayed.

1、P1-S：Delay range is 0.01s～99.99s;
2、P1-R：Delay range is 1s～99m99s;
3、P1-H：Delay range is 1m～99h99m;
4、P1-1：Delay range is 1m～9999m;
5、P1-2：Delay range is 1h～9999h;
6、P1-3：Delay range is 10h～99990h;
7、P2-U：Positive timing;
8、P2-d：Countdown timing;
9、P3-E：The displayed value resets automatically when powered on;
10、P3-F：The displayed value maintains memory during power failure;
11、P4-1：Power - on delay operation mode;
12、P4-2：Release delay operation mode;

"▶" key:

1.Function selection: During the time parameter - setting process, press this key to select the parameter that needs adjustment in a certain function.Pause function: During timing, press this key to pause;
2.press it again to accumulate the timing

"▲" key:

Press this key to increment the selected item, achieving an upward - incremental change.

"R" key:

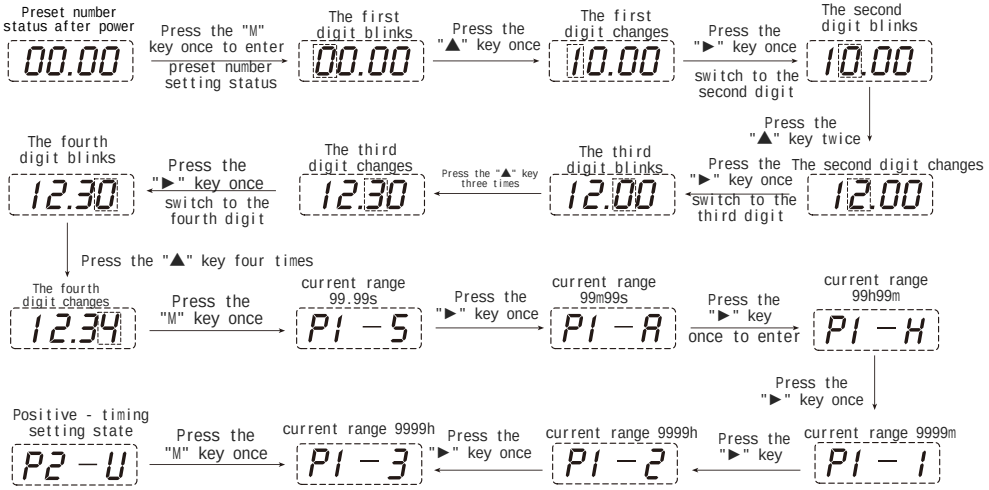
1.Reset function: Press this key to reset the timing - display numbers and the timing - output status to the initial state.
2.Confirmation function: After time - parameter setting is completed, this key must be pressed to save.

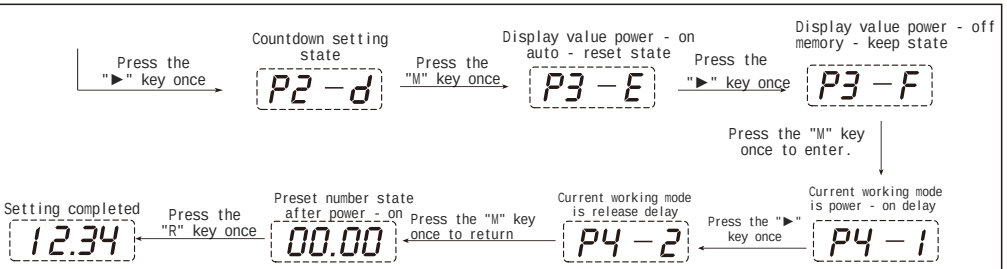
VI. Instructions for Use

In time parameter setting, users can set as required. Due to the memory function of this product, the parameter - setting status displayed after power - on is always the last parameter - setting status. Take the setting of a timing value of 12340h, countdown, power - off memory retention, working mode as release delay, and the last - set parameter as 00.00 as an example.

1.According to the wiring diagram on the relay housing label, refer to the circuit examples in Article VIII to connect the product to the control circuit.

2.During operation, pressing the set key allows querying of settings and modifying them at any time. During the setting process, pressing the reset key can save the settings and restart timing. Settings and operation can be carried out simultaneously without pausing the operation.





VII. Precautions

1.Reset function: At any time, press the "R" key or short - circuit terminals 1 and 3 of HHS6A or HHS6A - 1 products. The relay will return to the initial state and restart timing after disconnection.

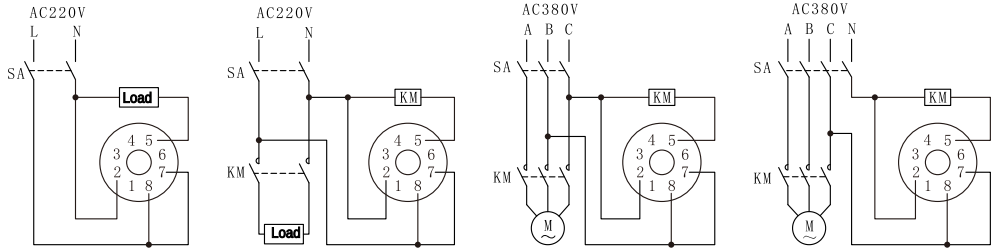
2.Starting function: Connect terminals 1 and 4 of HHS6A or HHS6A - 1 to start timing. Disconnect to stop timing, and keep the current number. After reconnecting, it will accumulate the timing.

3.The repeated starting interval time of the relay should be ≥0.5s.

4.In a strong electric field environment, when the connecting wires for "reset" and " start" are long, please use shielded wires. Do not input voltage into the "reset" and " start" terminals to avoid damaging the product.

VIII. Application Circuit Examples (Taking HHS6A - 2 as an Example)

Example 1: Example 2: Example 3: Example 4:



1.For single - phase loads, if the resistive current of the load ≤3A or the inductive current ≤0.5A, the relay controls directly, and the wiring refers to Example 1; if the resistive current of the load >3A or the inductive current >0.5A, the relay expands capacity through an AC contactor, and the wiring refers to Example 2; for three - phase loads, when the power supply of the AC contactor and the relay is AC380V, the wiring refers to Example 3; when the power supply of the AC contactor and the relay is AC220V, the wiring refers to Example 4.

2.The function of the example relay is: when the power supply is connected, the load or KM (AC contactor) is energized, and when the preset value is reached after a delay, the load or KM (AC contactor) is de - energized.

Note 1: When the load is a streetlight or a bulb, it can be directly connected to the two wires at the port of the streetlight or bulb (as shown in Example 1).

Note 2: KM is the coil of the AC contactor, and the two ends A1 and A2 can be wired according to Example 2, Example 3, and Example 4.

Note 3: In Example 3, the working power supply of the relay and KM is AC380V, and attention should be paid to the voltage rating of the selected product.

IX. Ordering Instructions

It is necessary to specify the product model, voltage rating, quantity, and if there are special requirements, they should be noted separately.

For example: HHS6A - 2 AC220V, 100 pieces.

产品合格证

符合标准: GB/T 14048.5

检 验 员: 检 01

出厂日期: 见产品或包装

本产品经检验合格, 准予出厂.

C-Lin 欣灵电气股份有限公司 XINLING ELECTRIC CO.,LTD

产品合格证

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欣灵电气股份有限公司

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国家高新技术企业 浙江省知名商号

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使用说明书

Products Instructions

HHS6A Series

Time Relay

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

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