

DH48S (RKS8) Series Time Relay User Manual

Please read this manual carefully before use in order to use this product correctly.
Please keep the manual properly after reading.

Summary

The ECNKO series time relay is a time relay that can set a delay value (hereinafter referred to as a relay), suitable for use as a delay element in control circuits with an AC 50/60HZ, rated voltage of 380V and below, to make or break the circuit at a predetermined time. This series of relays complies with the GB14048.5 standard.

1.Main technical parameters

Product model	RKS8	RKS8-2Z	RKS8-A	RKS8-S
Working voltage	AC24~240V 50/60Hz 5VA; DC24~240V 2W ,AC220V, AC380V, DC12V and other voltage specifications			
Display method	Oversize LED Nixie tube Integrated screen display			
Working mode	power on Instantaneous · Single cycle delay · Power on delay (See annotations)			Circle
Delay range	H6666-HL:W6666-WL:S6666-SL:H6666-HLO W6666-WLO:S6666-SLO:S6666-SLO 0			0.1S-9.9S;1S-99S;0.1M-9.9M: 1M-99M;0.1H-9.9H;1H-99H:
Repetitive error	delay range >1s, Er ≤ 1%, delay range ≤ 1s, Dr<50ms			
Contact form	Delay 1 conversion, instantaneous 1 conversion with reset, pause end	Instantaneous 2 conversion Delay 2 conversion,	Delay 2 conversion, instantaneous 2 conversion with reset, pause end	1 Instantaneous 1 conversion with reset and pause ends, Delay 1 conversion with reset and pause ends
Contact rating	AC250V 3A (resistive); DC24V 7A:			
Installation method	Panel type · Device type · Guide rail type			

2.Annotations:

Instantaneous delay:

When the power is turned on, the relay acts instantly and immediately switches from normally open to normally closed. When the delay time reaches the preset value, the relay acts normally closed and switches to normally open.

Power on delay:

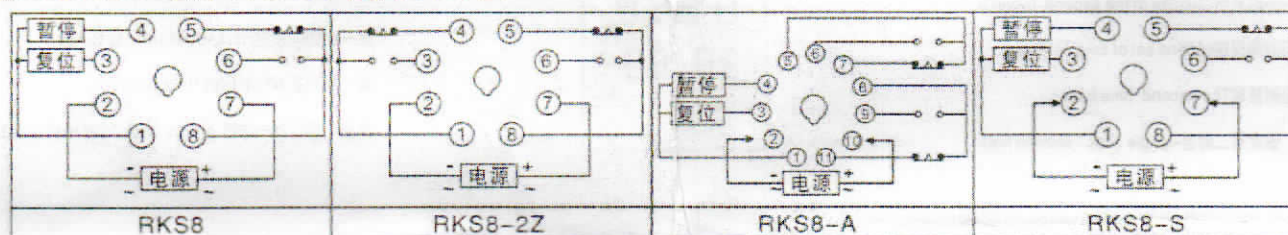
When the power is turned on, the relay can start to delay. When the delay time reaches the preset value, the relay acts and the output contact switches.

Cycle delay:

Turn on the power and the relay will start delaying,
Start delay output conversion according to preset time T1
Start delay reset according to preset time T2:
This automatically reciprocates

3.Wiring diagram

电源-POWER 暂停-PAUSE 复位-RESET



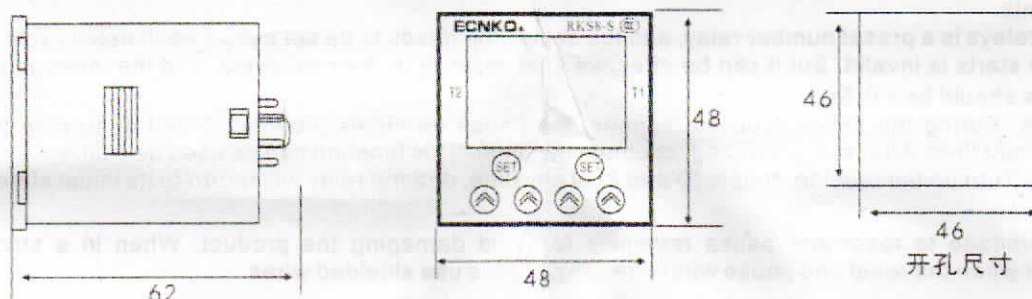
Do not input voltage on RESET and PAUSE terminals to avoid damaging the product.

When in a strong electrical environment or when the reset and pause wires are long, please use shielded wires.

4.External dimensions and installation method

Conventional external dimensions

开孔尺寸-Hole size



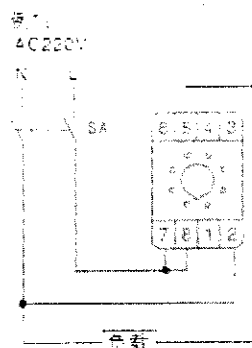
5. Example of application circuit

Taking RKS8 as an example, for single-phase loads, if the resistive current of the load is $\leq 5A$ or the inductive current is $\leq 1A$, the relay can be directly controlled. Please refer to Example 1 for wiring.

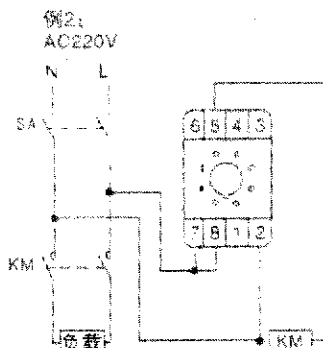
If the resistive current of the load is $>5A$ or the inductive current is $>1A$, the relay will be expanded through an AC contactor. Please refer to Example 2 for wiring.

For three-phase loads, it must be controlled through an AC contactor. Please refer to Example 3 for wiring.

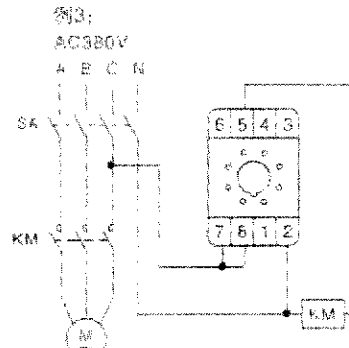
Example 1



Example 2



Example 3



负载-load

The function of an example relay is: when the power is turned on, the load or AC contactor is powered on. After a delay to the preset value, the load or AC contactor loses power. Note: The coil voltage of the AC contactor KM in the figure is AC220V, and other voltage levels need to be flexible.

6.Setting time instructions

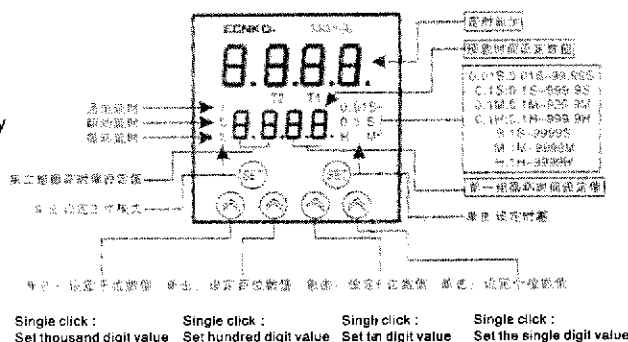
Y-通电延时 Power on delay

C-瞬动延时 Instantaneous delay

X-循环延时 Circle delay

第二组循环设定值

-Second set of cycles value



走时显示-Time display

预载时间设定数值-Preload time setting value

第一组循环设定值-First set of cycles value

单击: 设定时基-single click: set time base

Do not input voltage on RESET and PAUSE terminals to avoid damaging the product.

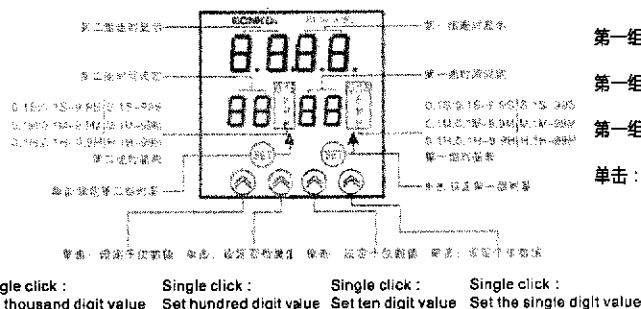
When in a strong electrical environment or when the reset and pause wires are long, please use shielded wires.

第二组走时显示 Display of the second travel ti

第二组时间设定 Second set of time settings

第二组时基表 The second time bases

单击: 设定第二时基-single click: second first



第一组走时显示 Display of the first travel time

第一组时间设定 First set of time settings

第一组时基表 The first time bases

单击: 设定第一时基-single click: set first time base

RKS8, RKS8-2Z, RKS8-A setting instructions

matters needing attention*Please strictly follow the wiring diagram on the relay casing for correct wiring, and the power parameters must meet the requirements.

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This series of relays is a preset number relay, and the delay time needs to be set before each delay cycle. The time set after the delay starts is invalid. But it can be effective after reset or in the next cycle, and the interval between relay repeated starts should be $\geq 0.5s$.

Pause function: During the timing process, connect the pause terminals (connect 1 and 4) to stop the timer and display the current time. After disconnecting, continue the timer. This function can be used as a timer.

Reset function: Turn on the reset terminals (D and 3) at any time, and the relay will return to its initial state.

Do not input voltage to reset and pause terminals to avoid damaging the product. When in a strong electrical environment or when the reset and pause wires are long, please use shielded wires.