DELIXI
ELECTRIC
德力西电气

JSS48□Series Time Relay

User Manual

Standard: GB/T 14048.5

□ Please carefully read this User Manual before installing and operating the product, and keep this manual properly for future reference

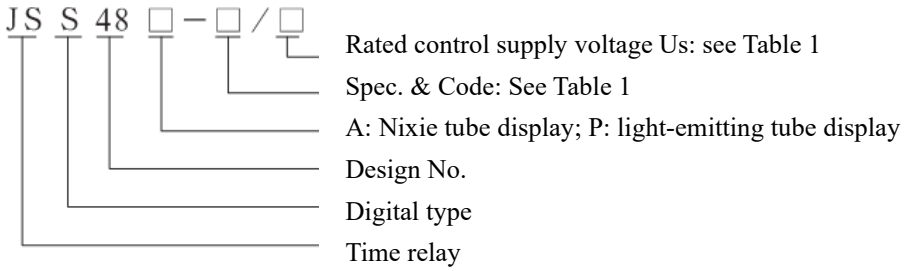
1. Overview

1.1 Scope of Application

JSS48□series time relay is suitable for AC 50/60Hz control circuit with the voltage 380V and below and with the DC volage 240 and below as a delay element, and is used to connect or disconnect the circuit at a predetermined time for automatic control.

Standard: GB/T14048.5

1.2 Model definition



Note: The original model JSS20-48AM is now replaced by JSS48P-3

The original model JSS20-48AMS is now replaced by JSS48A-3

1.3 Normal Working Conditions and Installation Conditions

1.3.1 Working environment: the altitude does not exceed 2000 meters; the ambient temperature is not higher than +40°C and not below -5°C; the voltage variation range of the rated control power supply is 85%-110% of the rated voltage; Installed in places where there is no harsh vibration and explosive medium or the medium does not contain gas or conductive dust that causes metal corrosion or damage to the insulation free from the rain or snow erosion.

1.3.2 Vertical or horizontal installation.

2 Конструктивные характеристики и принцип работыStructure Features and Working Principle

This time relay consists of a housing, a setting panel, an electronic circuit board and ab upper plug. It adopts special programmable digital integrated circuit, LED light-emitting nixie tube display, digital key switch preset, and it has the advantages of stable and reliable operation, high precision, wide delay range, low power consumption, artistic appearance, and convenient installation and operation.

Table 1

Model & Spec.	Functional characteristics	Delay time	Rated control power voltage
JSS48A	8 terminal blocks; One set of delay normally closed; One set of delay normally open. With reset, pause terminal; Positive timing, power-on delay	0.01-99.99s 1-99min99s 1 min-99h99min	AC50/60Hz: 12V, 24V, 36V, 48V, 110V, 127V, 220V, 380V DC: 12V, 24V, 36V, 48V, 110V, 127V, 220V AC/DC: 12-24V, 24V-48V, 100V-240V
JSS48P JSS48A-2Z	8 terminal blocks; Two sets of delay normally closed; Two sets of delay normally open. Positive timing, power-on delay	0.01s-999h optional single delay or 10 delay segments	
JSS48P-3 JSS48A-3			
JSS48A-11	11 terminal blocks ; Two sets of delay normally closed; Two sets of delay normally open. With reset, pause terminal; Positive timing, power-on delay	0.01s-99.99s 1s-99min.99s 1 min-99h99min	
JSS48A-D	8 terminal blocks; One set of delay normally closed; One set of delay normally open. With reset, pause terminal; Countdown, power-on delay	0.01-99.99s 0.1-999.9s. 1s-9999s 10s-99990s 1s-99min99s 0.1min-999.9min 1min-9999min 1min-99h99min 0.1h-999.9h 1h-9999h	
JSS48A-2D	8 terminal blocks; Two sets of delay normally closed; Two sets of delay normally open ; Countdown		
JSS48A-S	8 terminal blocks; One set of delay normally closed; One set of delay normally open. With reset, pause terminal; Cycle delay	0.1-9.9s 1s-99s 0.1min-9.9min 1min-99min 0.1h-9.9h 1h-99h	

3 Technical Features

3.1 Rated insulation voltage Ui: AC380V

3.2 Rated impulse withstand voltage Uimp: AC2.5kV

3.3 Rated control power supply voltage Us: see table 1

3.4 The rated operating voltage Ue / rated operating current under the usage category Ie: AC-15Ue: AC380V, Ie: 0.95A; Ue: AC240V, Ie: 1.5A; Ue: AC120V, Ie: 3A

DC-13 Ue: DC 250V, Ie:0.55A; Ue: DC125V, Ie:1.1A

3.5 Resistive current Ith: 5A

3.6 Contact capacity: AC250V 3A; (resistive);

3.7 Pollution level: 3

3.8 Setting error: ≤1%;

3.9 Repetitive error: ≤1%;

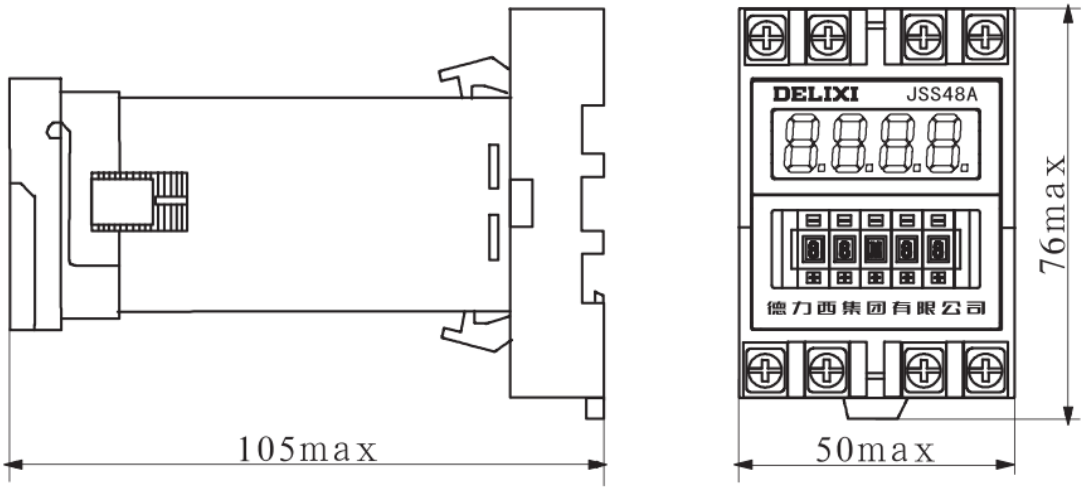
3.10 Mechanical life: ≥ 1 million times;

3.11 Electrical life: ≥ 100,000 times;

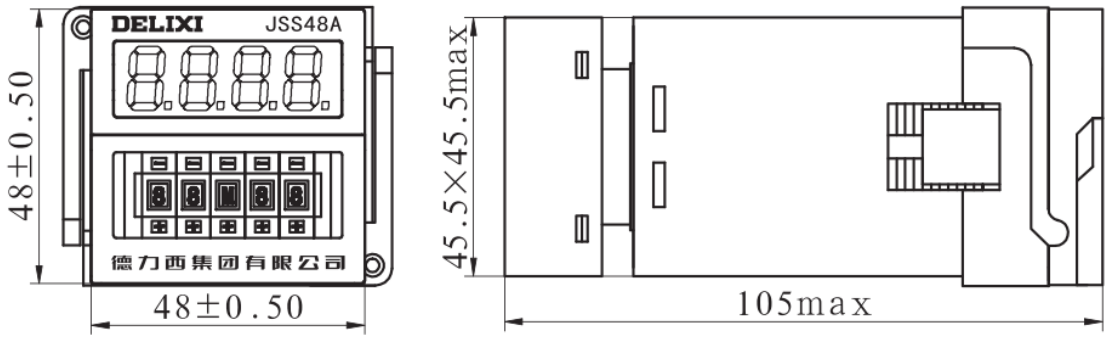
3.15 Cooperation with the short circuit protective device (SCPD): The RT16-00, 6A fuse with “1” type basic protection is recommended as SCPD; that is, the relay shall not cause danger to the persons or equipment in case of short circuit, and it is not allowed to work continuously before the repair or replacement of parts. If the fuse protective device of the different model is selected, the original cooperation may fail.

4. Product Outline and Installation Dimensions and Wiring Diagram

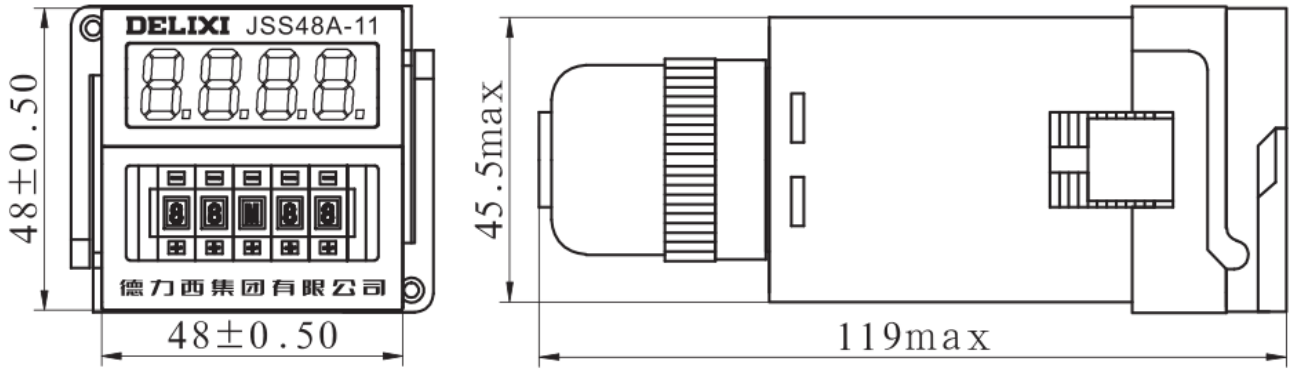
Unit: (mm)



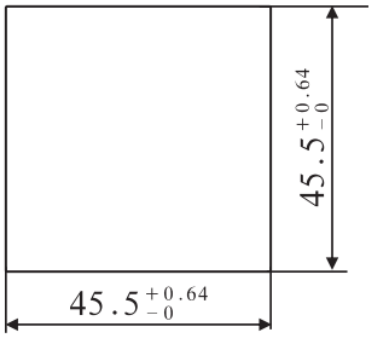
P2CF-08 outline dimensions of device type with base



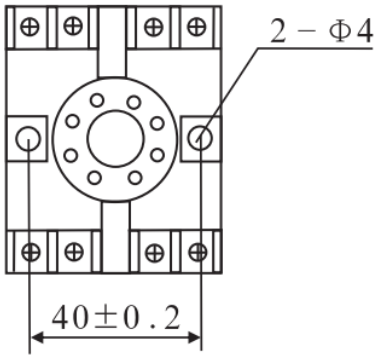
P3G-08 outline dimensions of panel type with base



Outline dimensions of panel type with round lamp holder



Size of hole of panel type



Size of hole of device type
(35mm standard mounting rail)

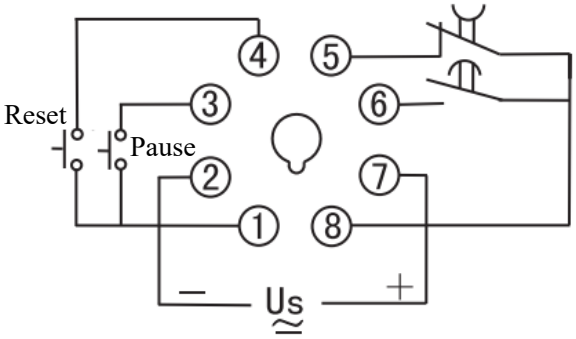
5 Installation and Operation Instructions

5.1 Please install the product according to the size of the hole and the size of the mounting hole.

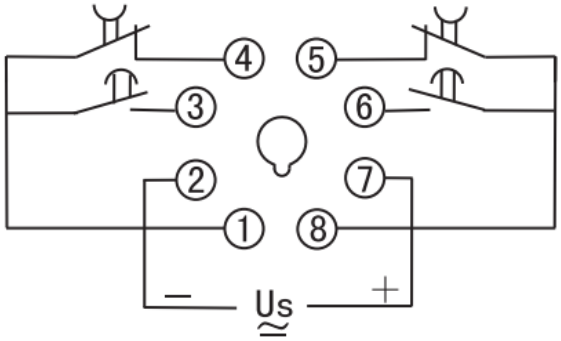
5.1.1 Connect the wire properly, and align with the pins when installing plugs and sockets to prevent short circuit of power supply resulting in accidents.

5.1.2 Check that the power supply voltage must be consistent with the rated control power supply voltage of the product, and then preset the required delay time, and then turn on the power, (power-on delay mode) at this time the relay starts to work, when the preset time expires, the delay contact is converted to realize timing control. In the JSS48A-S cycle delay mode, first set the T1 (set through the red dial disc on the right) and T2 (set through the black dial disc on the left) time period and time; after power-on, T1 starts to delay; two nixie tubes on the right display the T1 time, and the relay does not work; when the T1 reaches the set value, the relay will pull in and two-digit nixie tube is blanking; T2 starts to delay, and two-digit nixie tube on the left will display; when the T2 reaches the set value, the relay will release while the nixie tube is blanking, so that the T1 starts to delay again, and the cycle delay starts.

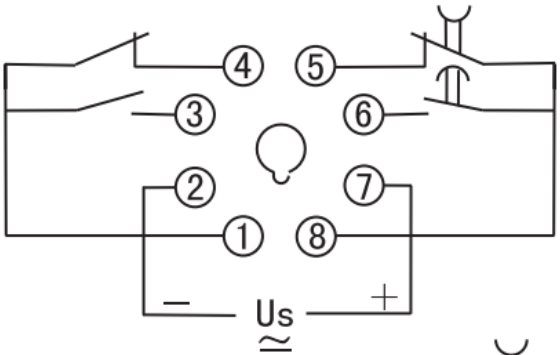
5.2 The operating volage of the relay shall be within the rated operating voltage range.
5.3 When the load power is greater than the rated value of the relay, an intermediate relay is provided.
5.4 Operation of reset terminals
When the reset terminal is connected at any time after startup delay, the time relay will reset; when the reset terminal is disconnected, the time relay starts timing from zero. To prevent interference from other electrical appliances, the reset line uses a shielded wire.
5.5 The equipment that may cause major economic losses or personal safety is designed to make the technical characteristics and performance values have sufficient allowance, and safety measures such as double circuit protection should be adopted.
5.6 It is strictly forbidden to install or disassemble the energized product.



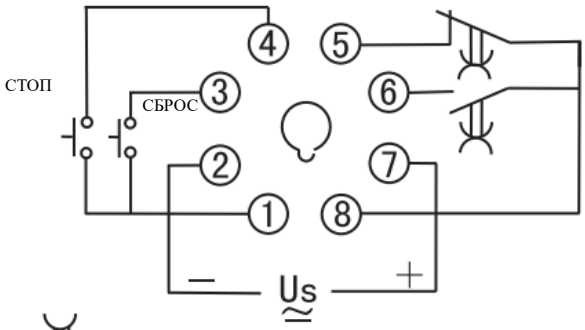
JSS48A
JSS48A-D



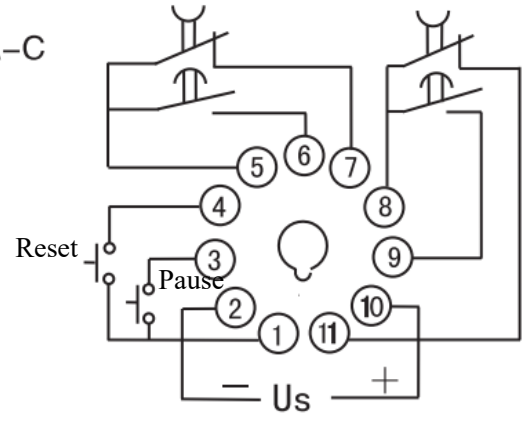
JSS48A-2Z、JSS48A-2D、JSS48P
JSS48P-3、JSS48A-3



JSS48A-C



JSS48A-S



JSS48A-11

6 Common Faults and Troubleshooting

6.1 Not work after startup (no display on the LED screen)

The power terminal is not wired and the wiring is improperly connected or disconnected, and the power supply is not connected.

6.2 The relay does not delay after power-on

Check the reset (zero clear) terminal is short circuited.

6.3 The relay is not converted when the delay time expires

Check whether the relay is wired improperly, whether the power voltage is too low, whether the relay contact has poor contact, and whether the relay is damage.

6.4 Product burnt

Check whether the power supply exceeds the rated power supply voltage of the product and whether the power cord is connected wrongly.

6.5 Troubleshooting:

In case of failure of product, first cut off the power, and then find the cause of the failure; operate the product according to the Installation and Operation Instructions after checking that the line works normally.

If the product has the poor quality problem, please contact the local dealer or our company.

7. Transport and Storage

The product shall be free from the rain or snow erosion or squeezing during storage and transportation, and shall be stored in well ventilated places where the relative humidity (25℃±5℃) does not exceed 90%, the lower limit of the temperature is -25℃, and the upper limit of the temperature is +55℃.

8. Unpacking and Inspection

Open the outer carton and check that there is the Operation Instruction in the packing box.

9. Ordering Notice

Please specify the model and specification of the product when ordering. For Any special requirement. please contact the manufacturer.

10. Company Commitment

Under the condition that users follow the use and storage conditions and the product are well sealed. within 24 months from the production date. our company will provide repair and replacement service free of charge for any damage or abnormal operation due to poor manufacture quality. A paid repair will be provided if the warranty period expires. For any damage due to one of the following situations. a paid repair will be given even if within the warranty period:

(1) Неправильное использование, техниhеское обслуживание и хранение;
(2) Самостоятельная модификация и неправильное обслуживание;
(3) После покупки она повреждена из-за падения и установки;
(4) Форс-мажорные обстоятельства, такие как землетрясение, пожар, удар молнии, аномальное напряжение и вториhные бедствия;
(5) Электриhеский срок службы продукции превышает 100 тысяh раз, механиhеский срок службы превышает 1 миллион раз.
При возникновении каких-либо вопросов, пожалуйста, свяжитесь с дилером или отделом обслуживания клиентов нашей компании.
Горяhая линия отдела обслуживания клиентов: 400-826-8008.

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Certificate

DELIXI GROUP CO., LTD.

Name: Time Relay
Model: JSS48□Series

This product complies with the GB/T 14048.5 standard, passes the inspection and is allowed to be shipped

Inspector: Check 01
Production date: See label on inner box

Manufacturer: Zhejiang Delixi Electrical Co., Ltd.
Address: No. 155, Zhandong Road, Liushi Town, Yueqing City, Zhejiang 325604
Tel: (86-577) 61778888
Fax: (86-577) 61778000
Customer Service Hotline: 400-826-8008

www.delixi-electric.com
The second edition of this User Manual was issued in August 2021.