

JSS48A (DH48S) Series Digital Time Relay Manual Instruction

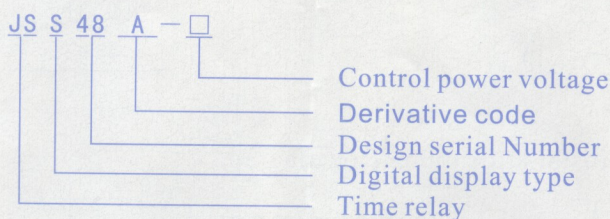
1. Application

JSS48A Series Digital time relay (hereinafter called relay) apply to control circuit of AC 50Hz, rated control power voltage 380V and below or DC 24V as time-relay component, making or breaking the circuit according to the preset time and control mode.

This series relay adopt integrate circuit as main component. It provided with many advantages such as wide time-relay range, high accuracy, good reliability, long life, small vol. and so on. It widely uses in various automatic control system which require high accuracy and high reliability.

This series relay accord with EN60947-1, EN60947-5-1, EN60204-1 and the requirements of Europe Standard 89/336/EEC, 73/23/EEC. The technology capability of relay is accord with the requirements of Standard JB/T10047 "Electronic-type time relay". JSS48A is same to DH48S.

2 Model Meanings



3. Specification

Model	Time-delay type and added function	Contact Quantity	Rated power voltage	period switch position	Timing range
JSS48A	Power-on delay with "reset" and "pause" function	Time-delay one group changeover	AC24V、36V、110V、127V、220V、380V 50Hz	H	1min~99h99min
JSS48A-2Z	Power-on delay	Time-delay two group changeover	DC24V	M	1s~99min99s
				S	0.01s~99.99s

Note: Special specification, please contact with our company.

4. Normal working conditions and installation condition

4.1 Normal working conditions

4.1.1 surrounding air temperature

The temperature of surrounding air can not exceed +40℃, the average temperature in 24 hours can not exceed +35℃. The lower limit of surrounding temperature is -5℃.

4.1.2 the altitude of installation place can not exceed 2000m.

4.1.3 Atmospheric conditions

4.1.3.1 Humidity

When the highest temperature is +40℃, the relative humidity of air can not exceed 50%. The higher relative humidity can be allowed under lower temperature condition. For example: when the temperature is +20℃, the humidity can be 90%. For the condensation resulted from temperature change, it shall be adopted special method to deal with.

4.1.3.2 Class of pollution: II

a) The installation position of counter is arbitrary angle.

b) Application category: (over-voltage category) II

5. Main Technical parameter

5.1 Time-delay error

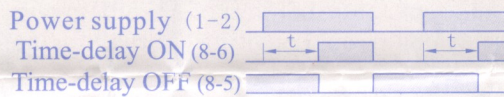
5.1.1 Repeat error shall not more than 1% (time-delay rated value $\geq 5s$), or shall not more than 0.05s (time-delay rated value $< 5s$)

5.1.2 Setting error shall not more than 1% (time-delay rated value $\geq 5s$), or shall not more than 0.05s (time-delay rated value $< 5s$)

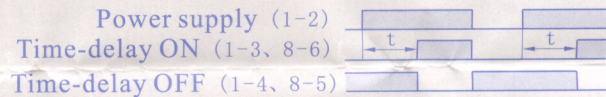
5.1.3 Composition error shall not more than 1% (time-delay rated value $\geq 5s$), or shall not more than 0.05s (time-delay rated value $< 5s$)

- 5.1 Reset time shall no more than 1s.
 5.2 Contact capacity AC220V 3A(resistive) DC24V 3A
 5.3 Mechanical Life: 1 ± 10^6 times
 5.4 Electrical life: 1 ± 10^5 times
 5.5 Using category: AC-15, DC-13
 6. Work schedule diagram

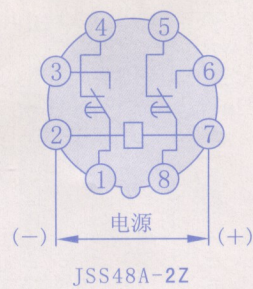
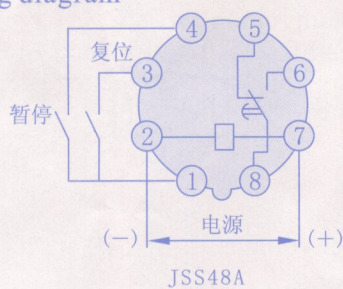
● JSS48A-8C



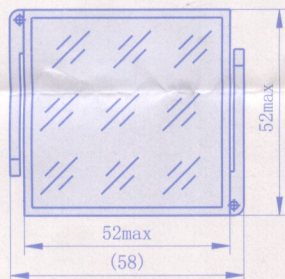
● JSS48A-11C



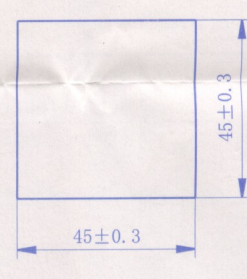
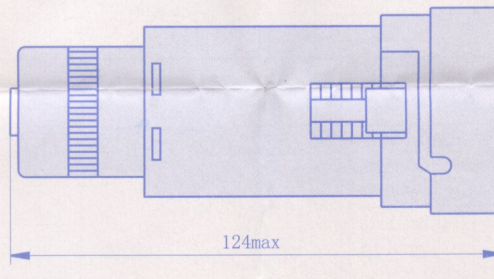
7. Wiring diagram



8. Outline dimension and installation dimension diagram



Outline dimension diagram



Outline dimension diagram

9. Using notice

- 9.1 The allowable fluctuation range for supply voltage of counter shall be allowed 85%~110% of the rated voltage. The ripple factor of DC voltage peak value shall not more than 5%. The change range of AC voltage frequency shall be allowed ± 1 Hz.
 9.2 When using the relay, choose the time-delay range by the period switch first, and set the delay time of relay by the finger-wheel switch, then connected to the power supply. It is unallowable to open the cover, touch the live parts and the outlet terminal of socket; otherwise it may get an electric shock. The outlet terminal of socket and the connecting wire must be connected firmly, and make sure the bare length of the wire should not make a short circuit with the border outlet terminal, or it may result in an accident.
 9.3 The time-delay scale of relay is only a mark for reference, and not represents the factual delay time. It should be calibrated when use.
 9.4 When the output contact of relay is used in ON/OFF load, the contact capacity should not more than the capacity in 5.3, or it may damage the relay, and result in an accident. The “outside reset signal” and “outside control signal” terminal is prohibited connecting with the power supply, the power signal or to ground, or it will break the relay.
 9.5 The working environment of the relay should be clean and dry. The relay should not be used in the following environment, such as the medium with blast danger, the corrosive metal or the insulation destroy air, the vapor, the electrical dust and the environment with serious mildew and so on.