



## JSK4-d系列空气延时接触器式继电器

### JSK4-d Range Air Time-Delay Contactor Way Relay

#### 一、用途 APPLICATION

JSK4-d系列空气延时接触器式继电器适用于交流50Hz（或60Hz），额定电压至380V或直流电压220V的自动控制线路中，作为延时元件，按预定时间接通和分断电路。

JSK4-d range air time-delay contactor relay is used in 50Hz(or 60Hz)、rated voltage up to 380V or DC voltage up to 220V automatic control circuit, for time-delay components, and making or breaking circuit in forecast time

#### 二、型号、参数、尺寸、接线图

#### TYPE、PARAMETERS、SIZE AND WIRING PICTURE

##### ■ 结构形式 structure feature

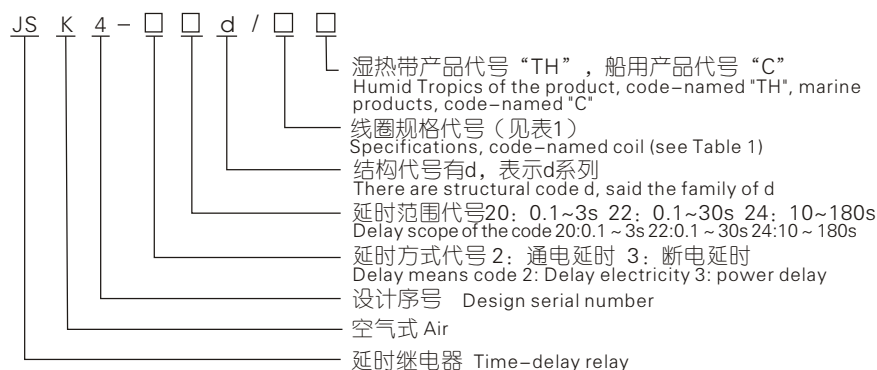
- △ 继电器为积木式结构，JSK4-d由JZC3-22d接触器式继电器和SK4-d系列空气延时头组合而成，利用空气阻尼原理，用粉末冶金片作空气过滤器，调节旋钮，可以连续改变延时值。

Relay is the modular structure; JSK4-d is arranged by JZC3-22d contactor way relay and SK4-d range air time-delay terminal. JSK4 is arranged by JZC3-22 contactor way relay and SK4 range air time-delay terminal, all accord air damping theory, use powder metallurgy unit as air filters, regulate knobs, and then continuously change time-delay value.

表(Table) 1

线圈电压V Coil voltage		24	48	110-120	220-240	380
JSK4-d	50Hz	/	/	/	/	Q
	50/60Hz	B7	E7	F7	M7	/

##### ■ 型号及含义 Type and means



##### ■ 规格 Character

表(Table) 2

动作方式 Dynamic way	通电延时 making time-delay		断电延时 Breaking time-delay	
延时接点 Time-delay connect point	1NO+1NC	产品构成 Product structure	1NO+1NC	产品构成 Product structure
瞬动接点 Connect point	2NO+2NC		2NO+2NC	

延时范围 Time-delay area	0.1~3s	JSK4-220d	JZC3-22d+SK4-220d	JSK4-320d	JZC3-22d+SK4-320d
	0.1~30s	JSK4-222d	JZC3-22d+SK4-222d	JSK4-322d	JZC3-22d+SK4-322d
	10~180s	JSK4-224d	JZC3-22d+SK4-224d	JSK4-324d	JZC3-22d+SK4-324d

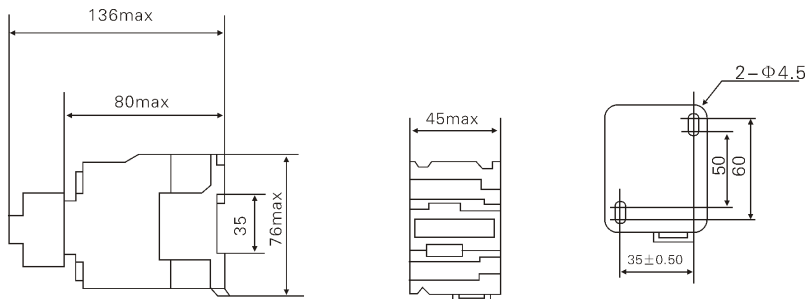
■ 主要技术参数 Main technical parameters

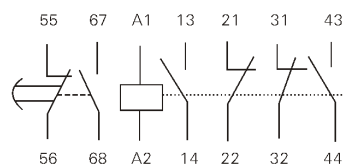
表(Table)3

参数 parameters		型号 type	空气延时接触器式继电器 Air time-delay contactor relay
			JSK4-d
额定绝缘电压 (U <sub>i</sub> ) V Rated insulation voltage			690
额定工作电压 (U <sub>e</sub> ) V Rated work voltage			AC: 380 DC: 220
约定发热电流 (I <sub>th</sub> ) A			10
额定工作电流 (I <sub>e</sub> ) A Rated work current	AC15 (380V)		0.95
	DC13 (220V)		0.15
可接通最小负载 (可靠工作) Connect minimum load			24V 10mA
额定操作频率(次/小时) Rated operate frequency			1200
寿命(次) Life span	机械 machine		3 × 10 <sup>6</sup>
	电 electric		0.5 × 10 <sup>6</sup>
符合标准 standard			IEC60947-5 GB14048.5
线圈参数 Coil parameters	吸合电压 pull voltage	U <sub>s</sub>	0.85 ~ 1.1
	释放电压 release voltage	U <sub>s</sub>	0.2 ~ 0.75
	吸合功率 pull	VA	70
	保持功率/功耗 contain power	VA/W	8VA/1.8 ~ 2.7W
绝缘电阻 MΩ isolated resistant			10
耐压 (AC) containing voltage			2500V:1分钟(Min)
延时重复误差 time-delay repeat error			≤ ± 5 %
延时稳定性误差 time-delay stable error			≤ ± 15 %
温度误差 temperature error			≤ ± 0.3 %
复位时间 reset time			< 0.5S

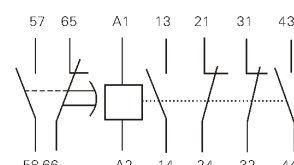
■ 外型尺寸、安装尺寸和接线图

Outline、mounting dimensions and wiring picture





JSK4-2d



JSK4-3d

### 三、工作条件和安装条件

#### WORKING AND INSTALLATION CONDITION

- △ 周围空气温度:  $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ; Ambient temperature:  $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ;
- △ 海拔高度不超过2000m; Elevation  $\leq 2000\text{m}$ ;
- △ 最高温度为 $+40^{\circ}\text{C}$ 时, 空气的相对湿度不超过50%, 在较低的温度下可以允许有较高的相对湿度。例如 $20^{\circ}\text{C}$ 时达90%。对由温度变化偶尔生产的凝露应采取特殊的措施;  
Not exceeding 50% at the maximum ambient temperature  $+40^{\circ}\text{C}$ . With lower temperature, higher humidity would be permitted, such as, humidity up to 90% at the ambient temperature  $20^{\circ}\text{C}$ . Should give consideration to the dews on the goods surface, which would appear due to temperature change;
- △ 振动条件: 继电器应安装在无显著摇动、冲击和振动的地方;  
Vibration condition: relay should be installed at the place without significantly shaken, shock and vibration.
- △ 安装面与垂直面倾斜度  $\pm 5^{\circ}$ , 除用螺钉安装外, 也可以采用卡轨安装;  
Installation gradient: the tilt gradient with vertical face should  $\leq 5^{\circ}$ , can installed by screw or rail track;
- △ 污染等级为“污染等级3”; Pollution grade: Grade 3;
- △ 安装类别为“安装类别II”; Installation categories: class II;
- 船用继电器 marine relay
- △ 周围空气温度为 $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ; Ambient temperature:  $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ;
- △ 大气条件: 可有凝露、盐雾、油雾、霉菌、海上空气潮湿等存在;  
Air condition: be able to bear the influence of moisture in the air、salt fog、oil fog、mould、humid air on the sea.
- △ 倾斜: 各方向倾斜不超过 $22.5^{\circ}$ ; Tilt: all direction should low than  $22.5^{\circ}$
- △ 摇摆: 各方向摇摆不超过 $22.5^{\circ}$ ; Vibration: all direction should low than  $22.5^{\circ}$
- △ 振动: 频率 $2 \sim 13.2\text{Hz}$ , 振幅为 $\pm 1\text{mm}$ 以内, 或频率为 $13.2 \sim 80\text{Hz}$ , 加速度为 $\pm 7\text{m/s}^2$ 以内;  
Shock: can bear frequency  $2 \sim 13.2\text{Hz}$  and amplitude in  $\pm 1\text{mm}$  or frequency  $13.2 \sim 80\text{Hz}$  and acceleration  $\pm 7\text{m/s}^2$
- △ 电源电压和频率变化: 稳态电压变化为额定电压的 $+6\% \sim -10\%$ , 稳态变化为额定频率的 $\pm 5\%$   
Power voltage and frequency changes: steady-state voltage is  $+6\% \sim -10\%$  of rated voltage, steady-state frequency change is  $\pm 5\%$  or rated frequency.
- △ 安装面与垂直面斜度不大于 $5^{\circ}$ 。  
The inclined angle between the mounting surface and vertical surface no more than  $5^{\circ}$

#### 四、订货须知 ORDER NOTICE

- △ 订货时必须说明空气延时接触器式继电器的全型号、名称、延时范围、线圈电压及频率和数量。

Need remark air time-delay contactor way relay's type、name、time-delay area、coil voltage、frequency and order volume.

例：JSK4-220d空气延时接触器式继电器 延时范围0.1~3S线圈电压220V 50Hz 10台。

Example: JSK4-220d air time-delay contactor way relay, time-delay area 0.1~3S, coil voltage 220V 50Hz 10sets