

特点 FEATURES

- **10安培功率继电器**
10 Amps Power relay.
- **UL ,CQC及 TUV 安规认证**
UL ,CQC& TUV safety approval.
- **高绝缘力度**
High dielectric strength.
- **接线圈间为4,000VAC**
4,000VAC between contacts and coil.
- **正常功率200mW~450mW**
Nominal power 200mW~450mW.
- **高感度型及标准型两种供选择**
Sensitive and standard coil available.
- **可提供符合IEC 60730-1/IEC 60335-1 标准的产品**
Products in accordance to IEC 60730-1/IEC 60335-1 standards.



用途举例 USE EXAMPLES

家用电器、自动化系统、
电子设备、仪器仪表等

接点参数 CONTACT RATING

接点形式 Contact Form	1A SPST-NO
最大切换功率 Max. Switching Power	2770VA 300W
最大切换电压 Max. Switching Voltage	277VAC 30VDC
最大切换电流 Max. Switching Current	10A
最小切换电流/电压 Min. Switching Current/Voltage	100mA 5VDC
额定负载(阻性) Rating Load(Resistive)	10A 277VAC 10A 30VDC
接点材质 Contact Material	银合金 Ag Alloy

性能参数 CHARACTERISTICS

电气寿命 Electrical Life	1×10 ⁶	
机械寿命 Mechanical Life	1×10 ⁶	
绝缘阻抗 Insulation Resistance	Min. 1,000MΩ 500VDC	
接触电阻 Contact Resistance(Initial)	≤100mΩ (6VDC 1A)	
动作时间 Operate Time	≤20ms	
开放时间 Release Time	≤10ms	
耐压 Initial Dielectric Strength	开放接点间 between open contacts : 50/60Hz 1000VAC 1min. 接点线圈间 between contacts and coil : 50/60Hz 4000VAC 1min.	
耐振动 Vibration Resistance	误动作: Functional:	10~55Hz 双振幅 Double Amplitude 1.5mm
	耐久: Destructive:	10~55Hz 双振幅 Double Amplitude 1.5mm
耐冲击 Shock Resistance	误动作: Functional:	10G
	耐久: Destructive:	100G
环境温度 Ambient Temperature	-40°C~+85°C (无结冰 No freezing)	
相对湿度 Relative Humidity	85% at 40°C	
单位重量 Unit Weight	约Approx.5.7g	

型号代码说明 ORDERING INFORMATION

133 - H - 1A - 12 - D - S - F

1. **型号** Model Number

133=10A, 1331=5A

2. **线圈感度** Coil Sensitivity

标准型 (abt. 0.45W) Nil =Standard Type

高感度型 (abt. 0.2W) H =High Sensitivity Type

3. **接点形式** Contact Arrangement

1组常开 1A = 1 Form A

4. **线圈电压** Coil Voltage

5、9、12、24、48 VDC

5. **线圈形式** Coil Type

直流 D=DC

6. **密封形式** Enclosure

密封型 S = Sealed Type

7. **绝缘形式** Insulation Type

Nil = Class A F = Class F

线圈额定值 (在20°C) COIL RATINGS (AT 20°C)

线圈形式 Coil Type	线圈额定电压 (V) Coil Nominal Voltage	线圈阻抗 ($\Omega \pm 10\%$) Coil Resistance	动作电压(V) (Max) Pick-Up Voltage	开放电压(V) (Min) Drop-Out Voltage	额定电流 (mA) Nominal Current
直流标准线圈 (abt. 0.45W) DC Standard Coils	5	56	3.75	0.25	89
	9	180	6.75	0.45	50
	12	320	9	0.6	37.5
	24	1280	18	1.2	18.8
	48	5120	36	2.4	9.4
直流高感度线圈 (abt. 0.2W) DC High Sensitivity Coils	5	125	3.75	0.25	40
	9	405	6.75	0.45	22.2
	12	720	9	0.6	16.7
	24	2800	18	1.2	8.3
	48	11520	36	2.4	9.4

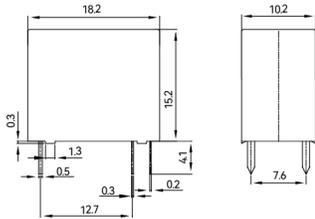
* 最大使用电压在20°C:线圈额定电压的130%

Max Continuous Voltage at 20°C:130% of Coil Nominal Voltage

外部尺寸 OUTLINE DIMENSIONS

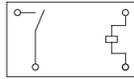
单位: 毫米 UNIT: mm

尺寸 Dimensions



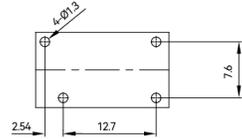
接线图 Internal Connections

(底视图 Bottom View)



孔位图 PCB Layout

(底视图 Bottom View)

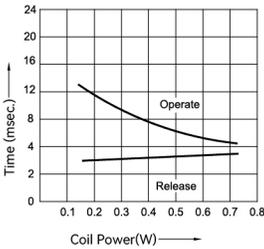


备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

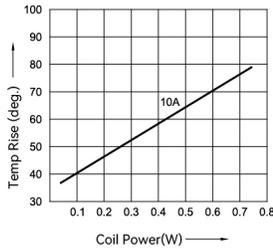
REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$

参考资料 133 REFERENCE DATA

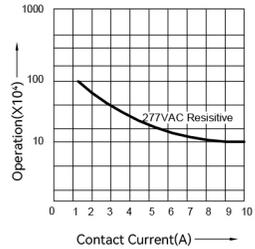
Timing



Coil Temperature Rise



Life Curves



安规认证 SAFETY STANDARD

安规名称 Approval	线圈电压 Coil Voltage	接点额定值 Contact Rating
UL FILE NO.: E171095	DC: 5V ~ 48V	(1331/1331H) 5A 250VAC 5A 30VDC 3A 30VDC (133/133H) 10A 277VAC 10A 30VDC 5A 30VDC 3A 120VAC 1/3HP 240VAC TV-5 250VAC
TUV FILE NO.: R50535552	DC: 5V, 9V, 12V, 24V, 48V	(133/133H) 10A 277VAC 10A 30VDC (1331/1331H) 5A 250VAC 5A 30VDC
CQC FILE NO.: CQC 23002380312	DC: 3V, 5V, 6V, 9V, 12V, 24V, 36V, 48V	(133/133H) 10A 277VAC 10A 30VDC (1331/1331H) 5A 250VAC 5A 30VDC