



Y31系列继电器SERIES RELAY

特点 FEATURES

- 10安培小型功率继电器
10 Amps Small power relay.
- 正常功率为200毫瓦。
Nominal power 200mW.
- 7mm 超薄型继电器
Thickness 7mm relay.
- UL及TUV安规认证
Approved UL and TUV.



用途举例 USE EXAMPLES

家用电器、自动化系统
电子设备、仪器仪表等

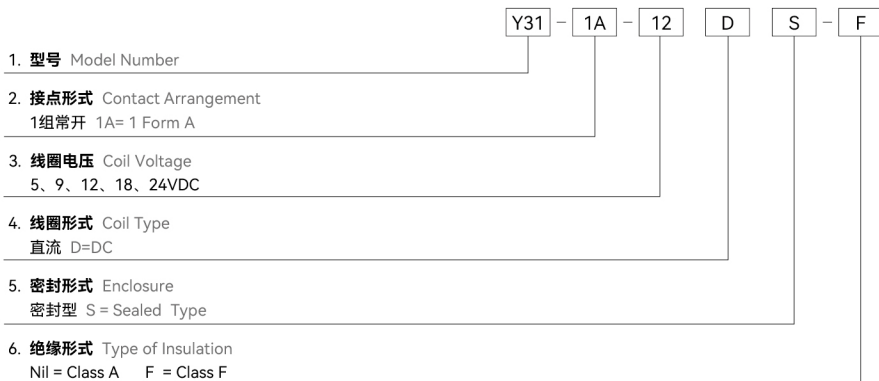
接点参数 CONTACT RATING

接点形式 Contact Form	1A SPST-NO
最大切换功率 Max. Switching Power	2770VA
最大切换电压 Max. Switching Voltage	277VAC
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 1/4HP 240VAC
接点材质 Contact Material	银合金 Ag Alloy

性能参数 CHARACTERISTICS

电气寿命 Electrical Life	1×10 ⁵	
机械寿命 Mechanical Life	1×10 ⁷	
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 750VAC 1min. 线圈接点间 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℃~+105℃ (无结冰 No freezing)	
相对湿度 Relative Humidity	85% at 40℃	
单位重量 Unit Weight	约Approx.4g	

型号代码说明 ORDERING INFORMATION



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
直流线圈 (abt. 0.2W) DC Coils	5	125	3.75	0.25	40
	9	405	6.75	0.45	22.2
	12	720	9	0.6	16.7
	18	1,620	13.5	0.9	11.1
	24	2,880	18	1.2	8.6

* 最大使用电压在20°C:线圈额定电压的130%

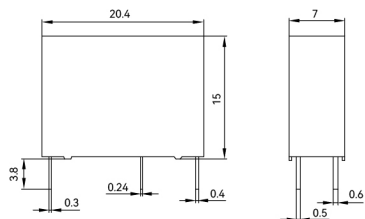
Max Continuous Voltage at 20°C:130% of Coil Normal Voltage

外部尺寸 OUTLINE DIMENSIONS

单位: 毫米 UNIT: mm

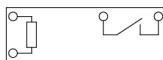
尺寸 Dimensions

标准型 Standard Type



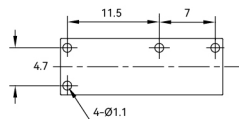
接线图 Internal Connections

(底视图 Bottom View)



孔位图 PCB Layout

(底视图 Bottom View)

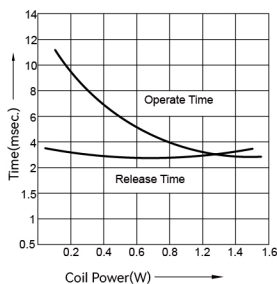


备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

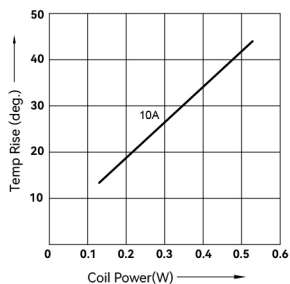
REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$

参考资料 Y31 REFERENCE DATA

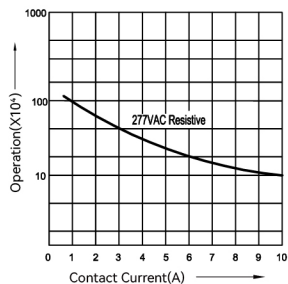
Timing



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 ~ 24V	10A 277VAC 10A 250VAC 8A 277VAC 8A 250VAC 1/4HP 240VAC
CQC FILE NO.: CQC23002386845	DC:3V,5V,6V,9V,12V,18V,24V	10A 250VAC 8A 250VAC