

特点 FEATURES

- 普通端子小型“糖块”式继电器
Subminiature “sugar cube” relay with universal terminal footprint.
- 耐脉冲电压 2,500V
Surge voltage 2,500V.
- UL、TUV及CQC安规认证
UL、TUV & CQC safety approval.
- 供应UL 标准F级绝缘型
UL Class F (155°C) coil insulation type available.
- 符合额定负载TV-5
TV-5 rated available.



用途举例 USE EXAMPLES

家用电器、自动化系统、电子设备、
仪器、仪表、通讯装置和遥控系统

接点参数 CONTACT RATING

接点形式 Contact Form	1A SPST-NO	1C SPDT
最大切换功率 Max. Switching Power	2770VA 360W	
最大切换电压 Max. Switching Voltage	277VAC (10A) 30VDC (12A)	
最大切换电流 Max. Switching Current	15A	
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 12A/30VDC	10A/277VAC 12A/30VDC
灯负载 Pilot Duty Load	1.5 A (make) 5.4 A (break) pilot duty 240 / 277 VAC	
马力负载 Horse Power Load	5.8 FLA 277V 34.8 LRA	
TV负载 TV Rating	TV-5	
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. 100MΩ 500VDC	
接触电阻 Contact Resistance(Initial)	≤100mΩ (6VDC 1A)	
动作时间 Operate Time	≤10ms	
开放时间 Release Time	≤5ms	
耐压 Initial Dielectric Strength	开放接点间 between open contacts: 50/60Hz 750VAC 1min. 接点线圈间 between contacts and coil: 50/60Hz 1500VAC 1min.	
耐振动 Vibration Resistance	误动作: Fuctional:	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: Fuctional:	10G (11ms)
	耐久: Destructive:	100G (6ms)
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.10g	

型号代码说明 ORDERING INFORMATION

1. 型号 Model Number	943	-	1A	-	12		D		S	-	F
2. 接点形式 Contact Arrangement											
1组常开 1A= 1 Form A 1组转换 1C= 1 Form C											
3. 线圈电压 Coil Voltage											
3、5、6、9、12、18、24、48VDC											
4. 线圈形式 Coil Type											
直流 D=DC											
5. 密封形式 Enclosure:											
普通型 Nil= General Type 密封型 S=Sealed Type											
6. 绝缘形式 Type of Insulation											
A级 Nil = Class A F级 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. 0.36W) DC Standard Coils	3	25	2.25	0.3	120
	5	70	3.75	0.5	71
	6	100	4.5	0.6	60
	9	225	6.75	0.9	40
	12	400	9	1.2	30
	18	900	13.5	1.8	20
	24	1600	18	2.4	15
	48	6400	36	4.8	7.5

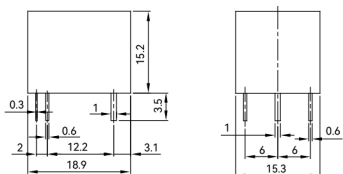
* 最大使用电压在20°C:线圈额定电压的130%

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



接线图 Internal Connections

(底视图 Bottom View)



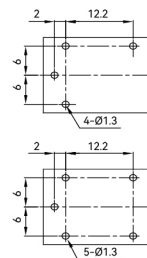
1A



1C

孔位图 PCB Layout

(底视图 Bottom View)

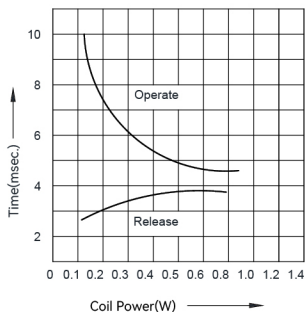


备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

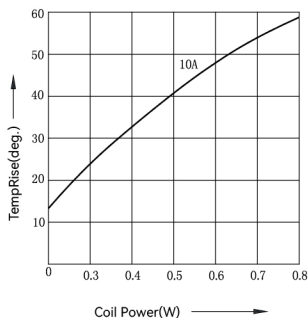
REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$

参考资料 943 REFERENCE DATA

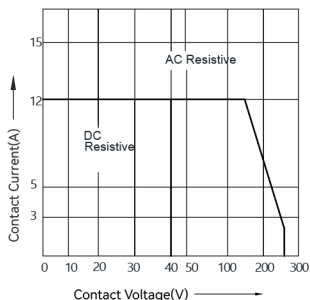
Timing



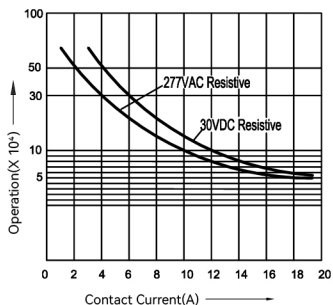
Coil Temperature Rise



Maximum Switching Power



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.: E162117	DC:3V ~ 48V	10A 277VAC 12A 125VAC 12A 30VDC 7A 250VAC 5.8 FLA 277 V 34.8 LRA 1.5 A (make) 5.4 A (break) pilot duty 277 V TV-5 15A, 125VAC, resistive, Form 1A (NO), Class F Insulation 1/3HP 125VAC
TUV FILE NO.: R50048093	DC:3V,5V,6V,9V,12V, 18V,24V,48V	1A: 7A 250VAC /30VDC 1C: 7A 250VAC
CQC FILE NO.: CQC02001001785	DC:5V,6V,9V,12V,24V,48V	12A 125VAC 10A 277VAC 12A 30VDC