943A系列继电器SERIES RELAY

特点 FEATURES

- **普通端子小型“糖块”式继电器**
  Subminiature “sugar cube” relay with universal terminal footprint.
- **耐漏电可达：CTI > 250**
  Tracking resistance：CTI > 250 available.
- **耐脉冲电压 2,500V**
  Surge voltage 2,500V.
- **UL 及CQC 安规认证**
  UL & CQC safety approval.
- **供应UL 标准F级绝缘型**
  UL Class F (155℃) 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	4155VA 360W	
最大切换电压 Max. Switching Voltage	277VAC（15A）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)	15A/277VAC 12A/30VDC 7A/250VAC	15A/277VAC 12A/30VDC 7A/250VAC
灯负载 Pilot Duty Load	1.5 A (make) 5.4 A (break) pilot duty 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	5×10^4	
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
	耐久: Destructive:	100G
环境温度 Ambient Temperature	-40℃~+85℃	
相对湿度 Relative Humidity	85% at 40℃	
单位重量 Unit Weight	约Approx.10g	

943A系列继电器SERIES RELAY

型号代码说明 ORDERING INFORMATION

943A – 1A – 12 D S – F

1. **型号** Model Number
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℃) COIL RATINGS (AT 20℃)

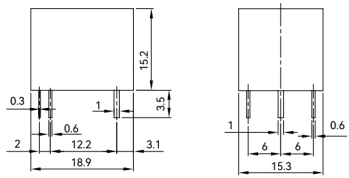
线圈形式 Coil Type	线圈额定电压 (V) Coil Nominal Voltage	线圈阻抗 (Ω±10%) Coil Resistance	动作电压 (Max) Pick-Up Voltage	开放电压 (Min) Drop-Out Voltage	额定电流 (mA) Nominal Current
直流标准线圈 (约. 0.36W) DC Standard Coils	3	25	2.25	0.3	120
	5	70	3.75	0.5	71
	6	100	4.5	0.6	60
	9	225	6.75	0.9	40
	12	400	9	1.2	30
	18	900	13.5	1.8	20
	24	1600	18	2.4	15
	48	6400	36	4.8	7.5

* 最大使用电压在20℃:线圈额定电压的130%
Max Continuous Voltage at 20℃:130% of Coil Normal Voltage

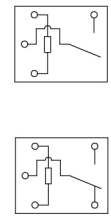
外部尺寸 OUTLINE DIMENSIONS

单位: 毫米 UNIT: mm

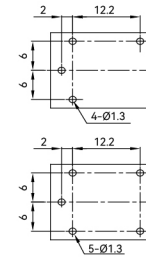
尺寸 Dimensions



接线图 Internal Connections
(底视图 Bottom View)



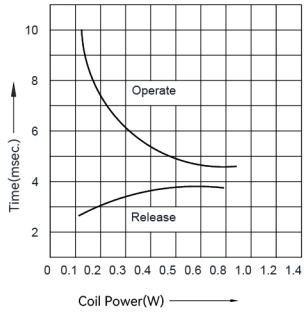
孔位图 PCB Layout
(底视图 Bottom View)



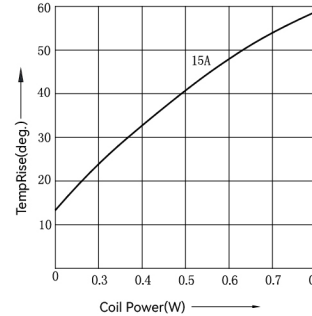
备注: 尺寸公差≤5mm±0.2mm，＞5mm±0.3mm，印刷电路板孔+0.2mm
REMARK: Dimensions≤5mm±0.2mm，＞5mm±0.3mm，the tolerance of PCB thru hole: +0.2mm

参考资料 943A REFERENCE DATA

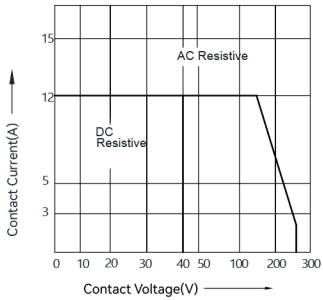
Timing



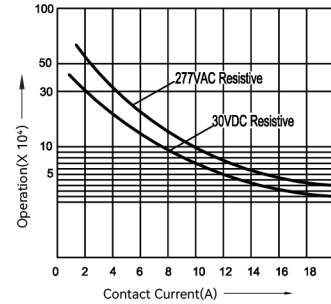
Coil Temperature Rise



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	15A 277VAC 15A 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
CQC FILE NO.: CQC02001001785	DC:5V,6V,9V,12V,24V,48V	15A 277VAC 12A 125VAC 12A 30VDC