

FEATURES特点

- Subminiature "sugar cube" relay with universal terminal footprint
普通端子小型“糖块”式继电器
- Tracking resistance: CTI>250 available
耐漏电可达: CTI>250
- Surge voltage 2,500V
耐脉冲电压 2,500V
- UL & TUV safety approval.
UL 及TUV 安规认证.
- UL Class F (155°C) coil insulation type available.
供应UL 标准F级绝缘型
- TV-5 rated available.
符合额定负载TV-5



UL FILE NO: E162117
CQC FILE NO: CQC02001001785

用途: 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。

CONTACT RATING 接点参数

Contact Arrangement接点形式	1A SPST-NO	1C SPDT
Max. Switching Power最大切换功率	4155VA 360W	
Max. Switching Voltage最大切换电压	277VAC (15A) 30VDC (12A)	
Max. Switching Current最大切换电流	15A	
Min. Switching Current/Voltage 最小切换电流/电压	100mA 5VDC	
Resistive Load (Resistive) 额定负载 (阻性)	15A/277VAC 12A/30VDC 7A/250VAC	15A/277VAC 12A/30VDC 7A/250VAC
Pilot Duty Load灯负载	1.5A(make) 5.4A(break) pilot duty 277VAC	
Horse Power Load马力负载	FLA 5.8A LRA 34.8A 277VAC	
TV Rating TV负载	TV-5	
Contact Material接点材质	Ag Alloy银合金	

CHARACTERISTICS 性能参数

Electrical Life 电气寿命	5 × 10	
Mechanical Life机械寿命	1 × 10 ⁷	
Insulation Resistance绝缘阻抗	Min. 100MΩ 500VDC	
Contact Resistance(Initial)接触电阻	≤ 100mΩ (6VDC 1A)	
Operate Time 动作时间	≤ 10ms	
Release Time 开放时间	≤ 5ms	
Initial Dielectric Strength 耐压	between open contacts开放接点间: 50/60Hz 750VAC 1min. between contacts and coil接点线圈间: 50/60Hz 1500VAC 1min.	
Vibration Resistance 耐振动	Malfunction: 误动作:	10 ~ 55Hz Double Amplitude双振幅 1.5mm
	Damage limits: 耐久:	10 ~ 55Hz Double Amplitude双振幅 1.5mm

Shock Resistance 耐冲击	Malfuction: 误动作:	10G
	Damage limits: 耐久:	100G
Ambient Temperature环境温度	-40°C ~ +85°C	
Relative Humidity相对湿度	85% at 40°C	
Unit Weight单位重量	约Approx. 10g	

ORDERING INFORMATION型号代码说明

943A -1A - 12 D S -F <u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u>	
1. Model Number型号 2. Contact Arrangement接点形式 1A= 1 Form A 1组常开 1C= 1 Form C 1组转换 3. Coil Voltage线圈电压 3、5、6、9、12、18、24、48VDC 4. Coil Type线圈形式 D= DC直流	5. Enclosure: 密封形式 Nil= General Type 普通型 S= Sealed Type 密封型 6. Type of Insulation Nil = Class A A级 F = Class F F级

COIL RATINGS (at 20°C) 线圈额定值 (在20°C)

COIL TYPE 线圈形式	线圈额定电压 Coil Nominal Voltage (V)	线圈阻抗 Coil Resistance ($\Omega \pm 10\%$)	动作电压(V) Pick-Up Voltage (V) \leq	开放电压 Drop-Out Voltage (V) \geq	额定电流 Nominal Current (mA)
DC Standard Coils 直流标准线圈 (约. 0.36W)	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

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

最大使用电压在20°C:线圈额定电压的130%

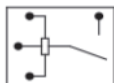
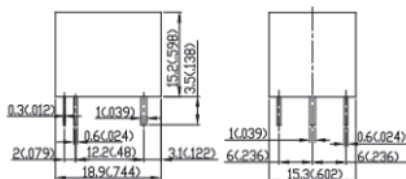
OUTLINE DIMENSIONS 外部尺寸

UNIT: mm(inch) 单位: 毫米(英寸)

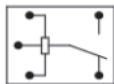
Dimensions尺寸

Internal Connection 接线图
(Bottom View) (底视图)

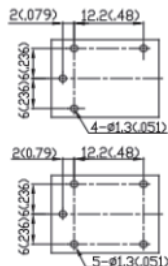
Drilling Plan 孔位图
(Bottom View底部视图)



1A



1C

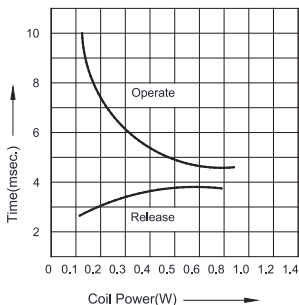


REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$

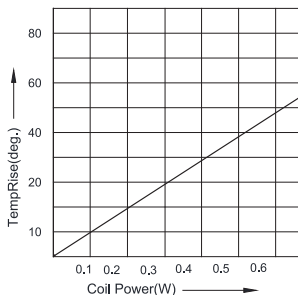
备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

943 Reference Data 参考资料

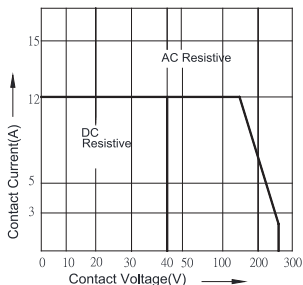
Timing



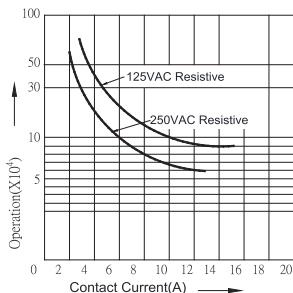
Coil Temperature Rise



Maximum Switching Power



Life Curves





943A系列继电器SERIES RELAY

SAFETY STANDARD安规认证

SAFETY 安规名称	Coil Voltage 线圈电压	Contact Rated 接点额定值
UL	DC 3~48V	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 5.8 FLA 277 V 34.8 LRA TV-5
CQC	DC:5V,6V,9V,12V,24V,48V	15A 277VAC 12A 125VAC 12A 30VDC