

特点 FEATURES

- **UL, CE, TUV 及 CQC 安规认证**
UL, CE, TUV & CQC safety approval.
- **单接点953系列继电器提供40A切换容量,适用于多种用途**
Single contact 953 series relay offers 40A switching capacity for various kinds of applications.
- **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.
- **符合UL 508 及 UL 873 规定**
Meets UL 508 & UL 873 spacing.
- **提供UL F级线圈绝缘**
UL class F coil insulation type available.



用途举例 USE EXAMPLES

家用电器、温控设备、工业设备HVAC
交直流马达控制、充电桩

接点参数 CONTACT RATING

接点形式 Contact Form	1A SPST-NO	1B SPST-NC	1C SPDT	
			NO	NC
最大切换功率 Max. Switching Power	11080VA 900W	11080VA 450W	11080VA 900W	
最大切换电压 Max. Switching Voltage	277VAC 30VDC			
最大切换电流 Max. Switching Current	40A			
最小切换电流/电压 Min. Switching Current/Voltage	100mA 5VDC			
额定负载(阻性) Rating Load(Resistive)	40A / 277VAC 30A / 30VDC	40A / 277VAC 15A / 30VDC	40A / 277VAC 30A / 30VDC	40 / 277VAC 15A / 30VDC
接点材质 Contact Material	银合金 Ag Alloy			

性能参数 CHARACTERISTICS

电气寿命 Electrical Life	NO:3×10 ⁴ NC:1×10 ⁴	
机械寿命 Mechanical Life	1×10 ⁷	
绝缘阻抗 Insulation Resistance	Min. 1000MΩ 500VDC	
接触电阻 Contact Resistance(Initial)	≤100mΩ (6VDC 1A)	
动作时间 Operate Time	≤15ms	
开放时间 Release Time	≤10ms	
耐压 Initial Dielectric Strength	开放接点间 between open contacts: 50/60Hz 1500VAC 1min. 线圈接点间 between contact and coil: 50/60Hz 2500VAC 1min. 线圈接点间 between contact and coil: 50/60Hz 4000VAC 1min. (-V)	
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°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.25g

型号代码说明 ORDERING INFORMATION

953 - 1C - 12 - D G FS - 1 - V

- 型号 Model Number**
 - 接点形式 Contact Arrangement**
1组常开 1A = 1 Form A 1组常闭 1B=1 Form B
1组转换 1C = 1 Form C
 - 线圈电压 Coil Voltage**
5、6、9、12、18、24、36、48VDC
 - 线圈形式 Coil Type**
直流 D=DC
 - 外盖形式(1) Cover Type**
标准型 G=General Type
 - 绝缘形式 Type of Insulation**
Nil = Class A FS = Class F
 - 共同端子形式 Common Terminal Type**
1 = One Common Terminal (在线圈端子间无共同端子 No Common Terminal between Coil Terminal)
 - 线圈接点间耐压 between contact and coil**
Nil=2500VAC V=4000VAC
- (1) 备注: 如客户有密封型产品、防爆型产品需求,请与我司销售人员联系
If customers have any demands for sealed products or explosion-proof products, please contact our sales staff

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 (Ω±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. 0.9W) DC Standard Coils	5	27	3.75	0.5	185
	6	40	4.5	0.6	150
	9	97	6.75	0.9	93
	12	155	9	1.2	77
	18	380	13.5	1.8	47
	24	660	18	2.4	36
	36	1440	27	3.6	25
	48	2560	36	4.8	19

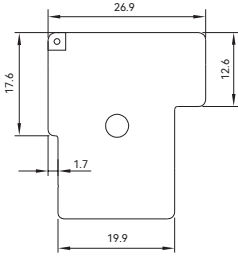
*最大使用电压在20°C:线圈额定电压的130% Max Continuous Voltage at 20°C:130% of Coil Normal Voltage

外部尺寸 OUTLINE DIMENSIONS

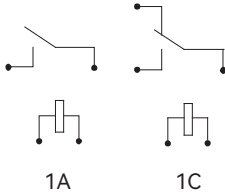
单位: 毫米 UNIT: mm

密封型 Sealed Type

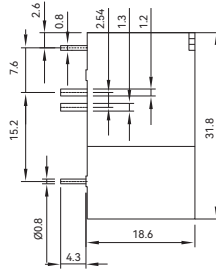
尺寸 Dimensions



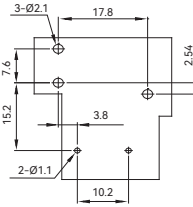
接线图 Internal Connections
(底视图 Bottom View)



1A 1C
1 Common Terminal



孔位图 PCB Layout
(底视图 Bottom View)



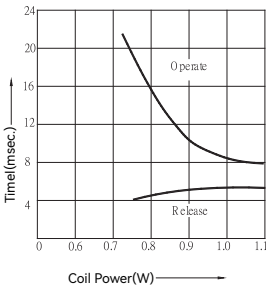
1个共同端子型
1 Common Terminal

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 $+0.2\text{mm}$

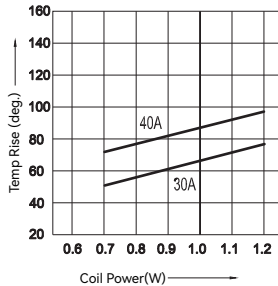
REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$

参考资料 953G REFERENCE DATA

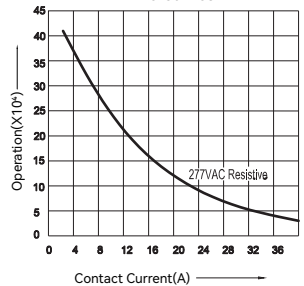
Timing



Coil Temperature Rise



Life Curves





953G系列继电器SERIES RELAY

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:5V ~ 110V AC:6V ~ 220V	NO:40A 277VAC 30A 30VDC FLA 16.0/125VAC 1HP FLA 12.0/250VAC 2HP NC:40A 277VAC 15A 30VDC FLA 5.8/125VAC 1/4HP FLA 4.9/250VAC 1/2HP FLA 8.0/240VAC 1HP
TUV FILE NO.: R02158203	DC:5V,6V,9V,12V,18V,24V,48V,110V AC:6V,12V,24V,110V,220V	NO:40A 277VAC 30A 30VDC NC: 40A 277VAC 15A 30VDC
CQC FILE NO.: CQC02001001783	DC:5V,9V,12V,24V,36V,48V AC:110V,220V	40A 277VAC