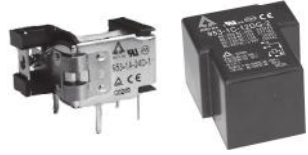


FEATURES特点

- UL, CE, TUV & CQC safety approval.
UL, CE, TUV 及 CQC 安规认证.
- Single contact 953 series relay offers 30A switching capacity for various kinds of applications.
单接点953系列继电器提供30A 切换容量,适用于多种用途.
- Up to 30A switching in SPST-NO and 20A switching in SPDT-NC arrangement.
对单刀单掷-常开接点形式,达到30A切换电流及对单刀双掷-常闭可达到20A切换电流.
- Meets UL 508 & UL 873 spacing.
符合UL 508 及 UL 873 规定.
- 953 series have open type without dust cover and sealed cover types are available to meet customers' various requirement.
953系列有开放形式无防尘外盖及密封外盖型供客户选择.
- UL class F coil insulation type available.
提供UL F级线圈绝缘.



UL FILE NO.: E162117
TUV FILE NO.: R02158203
CQC FILE NO.: CQC02001001783

用途: 家用电器和工业设备HVAC
(加热、通风和空调)

CONTACT RATING 接点参数

| Contact Form接点形式 | 1A SPST-NO | 1B SPST-NC | 1C SPDT | |
|---|---|---|---|--|
| | | | NO | NC |
| Max. Switching Power最大切换功率 | 7500VA(30A) 600W (20A) | 4800VA 300W | 7500VA600W | |
| Max. Switching Voltage最大切换电压 | 250VAC 30VDC | 250VAC 20VDC | 250VAC 30VDC | |
| Max. Switching Current最大切换电流 | 30A | 20A | 30A | |
| Min. Switching Current/Voltage 最小切换电流/电压 | 100mA 5VDC | | | |
| Rating Load(Resistive)额定负载(阻性) | 20A / 277VAC 20A / 30VDC 30A / 250VAC | 15A / 277VAC 20A / 240VAC 10A / 30VDC | 20A / 277VAC 30A / 240VAC 20A / 30VDC | 15A / 277VAC 30A / 240 VAC 10A / 30VDC |
| Contact Material 接点材质 | Ag Alloy 银合金 | | | |

CHARACTERISTICS 性能参数

| | | |
|-----------------------------------|---|--------------------------------------|
| Electrical Life 电气寿命 | 1 × 10 ⁵ | |
| Mechanical Life 机械寿命 | 1 × 10 ⁷ | |
| Insulation Resistance 绝缘阻抗 | Min. 500MΩ 500VDC | |
| Contact Resistance (Initial) 接触电阻 | ≤ 100mΩ (6VDC 1A) | |
| Operate Time 动作时间 | ≤ 15ms | |
| Release Time 开放时间 | ≤ 10ms | |
| Initial Dielectric Strength 耐压 | between open contacts 开放接点间: 50/60Hz 1500VAC 1min between contact and coil 线圈接点间: 50/60Hz 2500VAC 1min. (G-1) between contact and coil 线圈接点间: 50/60Hz 2000VAC 1min. (G-2) | |
| Vibration Resistance 耐振动 | Malfuction: 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 (No freezing 无结冰) | |
| Relative Humidity 相对湿度 | 85% at 40°C | |
| Unit Weight 单位重量 | 约 Approx. 25g | |

ORDERING INFORMATION 型号代码说明

| | |
|---|---|
| 953-1C-12 D G F-1 <u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> | |
| <ol style="list-style-type: none"> 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 5、6、9、12、18、24、36、48VDC 6、12、24、110、220VAC 4. Coil Type 线圈形式 D=DC 直流 A=AC 交流 5. Enclosure 密封型式 Nil = Open Type 开放型 (without Dust cover 无防尘外盖) G = Sealed Type 密封型 (with Dust cover 有防尘外盖) | <ol style="list-style-type: none"> 6. Type of Insulation 绝缘形式 Nil = Class A F = Class F 7. Common Terminal Type 共同端子形式 1 = One Common Terminal (No Common Terminal between Coil Terminal 在线圈端子间无共同端子) 2 = Two Common Terminal (One Common Terminal Between Coil Terminal 在线圈端子间有一个共同端子) |

COIL RATINGS (at 20°C) 线圈额定值 (在20°C)

| COIL TYPE 线圈形式 | Coil Nominal Voltage 线圈额定电压 (V) | Coil Resistance 线圈阻抗 ($\Omega \pm 10\%$) | Pick-Up Voltage 动作电压(V) (Max) | Drop-Out Voltage 开闭电压(V) (Min) | Nominal Current 额定电流 (mA) |
|--|------------------------------------|---|----------------------------------|-----------------------------------|------------------------------|
| DC Standard Coils 直流标准线圈 (abt. 0.9W) | 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 |
| AC Coils 交流线圈 (abt. 1.2VA~1.8VA) | 6 | 10 | 4.8 | 0.6 | |
| | 12 | 43 | 9.6 | 1.2 | |
| | 24 | 160 | 19.2 | 2.4 | |
| | 110 | 3160 | 88 | 11 | |
| | 220 | 13490 | 176 | 22 | |

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

* AC coils Max continuous Voltage at 20°C 110% 交流线圈最大使用电压在20°C: 线圈额定电压的110%

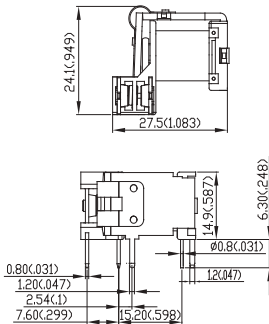
OUTLINE DIMENSIONS 外部尺寸

UNIT: mm(inch) 单位: 毫米(英寸)

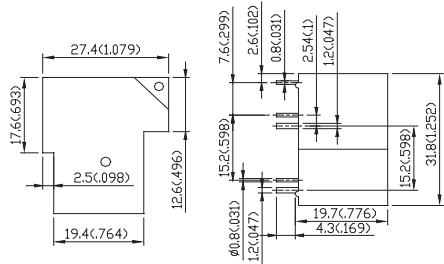
2 Common Terminals 2个共同端子型

Dimensions尺寸

Open Type 开放型

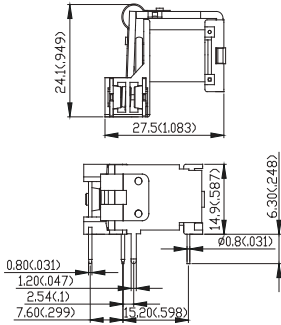


Sealed Type 密封型

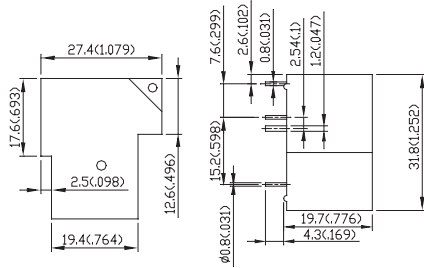


1 Common Terminal 1个共同端子型

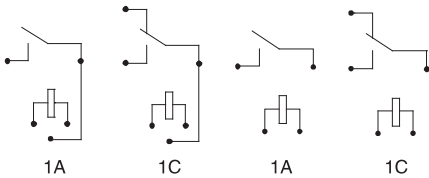
Open Type 开放型



Sealed Type 密封型



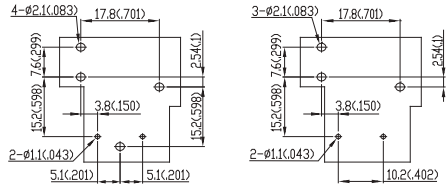
Internal Connections 接线图 (Bottom View 底视图)



2 Common Terminals
2个共同端子型

1 Common Terminal
1个共同端子型

Drilling Plan 孔位图 (Bottom View 底视图)



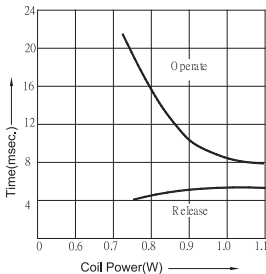
2 Common Terminals
2个共同端子型

1 Common Terminal
1个共同端子型

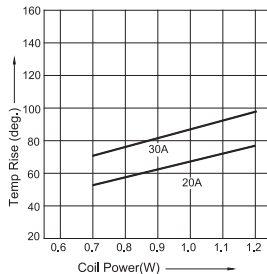
REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$
备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

953G Reference Data 参考资料

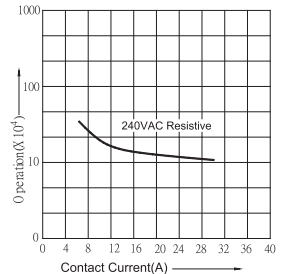
Timing



Coil Temperature Rise



Life Curves





953G系列继电器SERIES RELAY

SAFETY STANDARD安规认证

●UL APPROVAL UL 认证

| Contact Form接点形式 | 1 A | 1B | 1C | |
|------------------------------------|--|--|--|---------------------------------|
| | | | NO | NC |
| Rating Load(Resistive) 额定负载(阻性) | 20A / 277VAC 20A / 30VDC | 15A / 277VAC 10A / 30VDC | 19.8A / 277VAC 30A / 240VAC | 19.8A / 277VAC 30A / 240 VAC |
| General Purpose Load通用负载 | 15A / 277VAC | 8A / 277VAC | ————— | ————— |
| Motor Load电机负载 | 16.0FLA / 96.0LRA 240VAC | 10.0FLA / 58.0LRA /240VAC | ————— | ————— |
| Horse Power马力 | FLA 12 / 250VAC 2HP FLA 16 / 125VAC 1HP | FLA 4.9 / 250VAC 1/2HP FLA 5.8 / 125VAC 1/4HP | FLA11.2 / LRA67.2 FLA10.3 / LRA61.8 | |
| Ballast镇流负载 | ————— | ————— | 20A | |
| Coil Voltage线圈电压 | 5 – 110 VDC 6 – 220 VAC | | | |

●TUV APPROVAL TUV认证

| Contact Form接点形式 | 1 A | 1B | 1C | |
|------------------------------------|---|-----------------------------|-----------------------------|-----------------------------|
| | | | NO | NC |
| Rating Load(Resistive) 额定负载(阻性) | 30A / 250VAC 20A / 30VDC | 10A / 250VAC 10A / 30VDC | 30A / 250VAC 20A / 30VDC | 10A / 250VAC 10A / 30VDC |
| Inductive Load感性负载 (L/R: 7ms) | 10A / 30 VDC | 8A / 30VDC | 10A / 30VDC | 8A / 30VDC |
| Coil Voltage线圈电压 | DC: 5V,6V,9V,12V,18V,24V, 48V,110V AC: 6V,12V,24V,110V, 220V | | | |

●CQC APPROVAL CQC认证

| Contact Form接点形式 | 1 A | 1B | 1C | |
|------------------------------------|---|--------------|--------------|--------------|
| | | | NO | NC |
| Rating Load(Resistive) 额定负载(阻性) | 30A / 240VAC | 20A / 240VAC | 30A / 240VAC | 20A / 240VAC |
| Coil Voltage线圈电压 | 直流DC: 5V,9V,12V, 24V, 36V,48V 交流AC: 110V, 220V | | | |

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