

951(1C、2C) 系列继电器SERIES RELAY

FEATURES特点

- UL ,CE & CQC safety approval. UL ,CE 及 CQC 安全认证.
- 1 Pole and 2 Pole types are available with switching current of 16A (1Pole) and 10A (2 Pole).
1组及2组转换接点形式转换电流为16安培(1组)及10安培(2组)
- PCB terminal and Socket terminal are selectable and flange case type is available.
有电路板端子及插座式端子可供选择以及法兰式外盖可供选用
- Nominal power DC 900mW & AC 1.2VA.
正常功耗:直流为 900mW 及交流为 1.2VA
- Operating power DC 510mW. 动作功耗直流 510mW
- Optional to be equipped with lamp, diode
另有带灯和二极管可供选配



UL FILE NO.: E162117
CQC FILE NO.: CQC04001009878
CE DECLARATION OF CONFORMITY
用途: 自动控制、通讯设备、
家用电器及机床电器

CONTACT RATING 接点参数

Contact form接点形式	1A SPST-NO	1C SPDT	2C DPDT
Max. Switching Power最大切换功率	5000VA(20A) 480W(16A)	4000VA 480W	2500VA 300W
Max. Switching Voltage最大切换电压	250VAC 30VDC		
Max. Switching Current最大切换电流	20A	16A	10A
Min. Switching Current/Voltage 最小切换电流/电压	100mA 5VDC		
Rating Load(Resistive)额定负载(阻性)	20A/250VAC 16A/30VDC	16A/250VAC 16A/30VDC	10A/250VAC 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. 100MΩ 500VDC	
Contact Resistance(Initial)接触电阻	≤ 100mΩ (6VDC 1A)	
Operate Time 动作时间	≤ 25ms	
Release Time 开放时间	≤ 25ms	
Initial Dielectric Strength 耐压	between open contacts开放接点间: 50/60Hz 500VAC 1min. between contacts and coil线圈接点间: 50/60Hz 1500VAC 1min. between contact sets接点组间: 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	Malfunction: 误动作:	10G
	Damage limits: 耐久:	100G
Ambient Temperature环境温度	-25℃ ~ +55℃ (No freezing 无结冰)	
Relative Humidity相对湿度	85% at 40℃	
Unit Weight单位重量	约Approx. 35g	

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ORDERING INFORMATION型号代码说明

951 -1C - 12 D P M L G - F									
1	2	3	4	5	6	7	8	9	
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 2C = 2 Form C 2组转换 3. Coil Voltage线圈电压 6、12、24、48、100VDC 12、24、110、120、220、240VAC 4. Coil Type 线圈形式 D=DC直流 A=AC 交流 5. Terminal Type 端子形式 Nil = Socket Terminal 插座式端子 P = P.C.B. Terminal 电路板式端子					6. Cover Type Nil =General Type 普通型 M = Flange Top Type 法兰式 7. Optional选择 Nil = General Type 普通型 L = With Lamp and Diode(DC coil Type only) 带灯及附二极管型(仅限直流线圈) N = With Lamp 带灯型 8. Contact Material 接点材质 Nil = General Type 普通型 G = Contact with Gold Plating镀金接点型 9. Type of Insulation 绝缘形式 Nil = Class A F = Class F				

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 开放电压(V) (Min)	Nominal Current 额定电流 (mA)
DC Standard Coils 直流型线圈 (abt.0.9W)	6	40	4.5	0.6	150
	12	160	9	1.2	75
	24	650	18	2.4	37
	48	2600	36	4.8	19
	100	11000	75	10	9
AC Coils 交流线圈 (abt.1.2VA)	12	46	9.6	3.6	
	24	180	19.2	7.2	
	48	720	38.4	14.4	
	110	3750	88	33	
	120	4430	96	36	
	220	12950	176	66	
	240	18790	192	72	

* Max Continuous Voltage at 20°C: 110% of Coil Normal Voltage.

最大使用电压在20°C:线圈额定电压的110%

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OUTLINE DIMENSIONS 外部尺寸

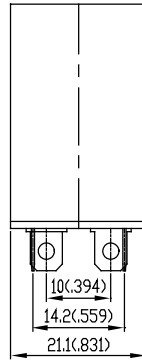
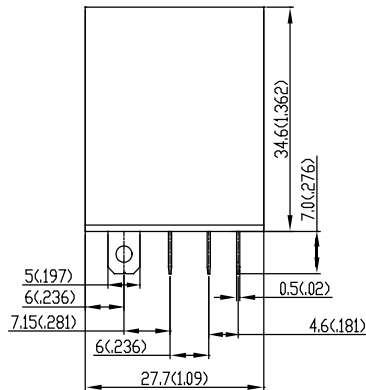
UNIT: mm(inch) 单位: 毫米(英寸)

Dimensions尺寸

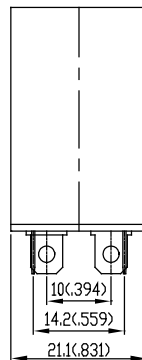
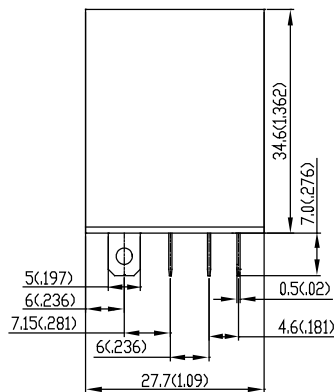
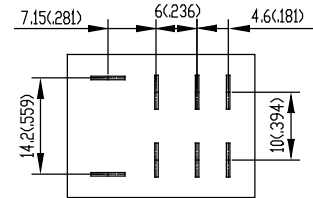
Internal Connections接线图
(Bottom View底视图)

Drilling Plan孔位图
(Bottom View底视图)

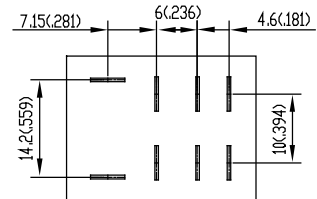
GENNERAL TYPE 普通型 Socket Terminal 插座式端子



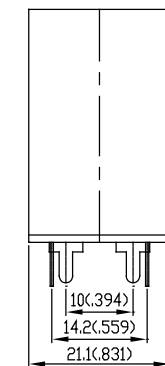
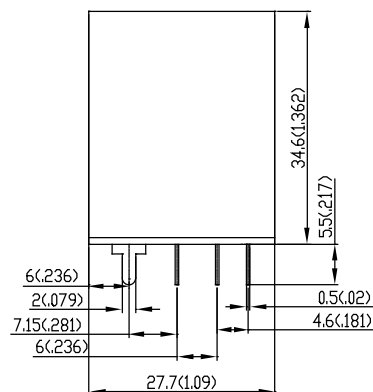
1 Form C



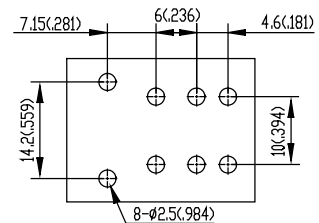
2 Form C



P.C.B Terminal电路板式端子



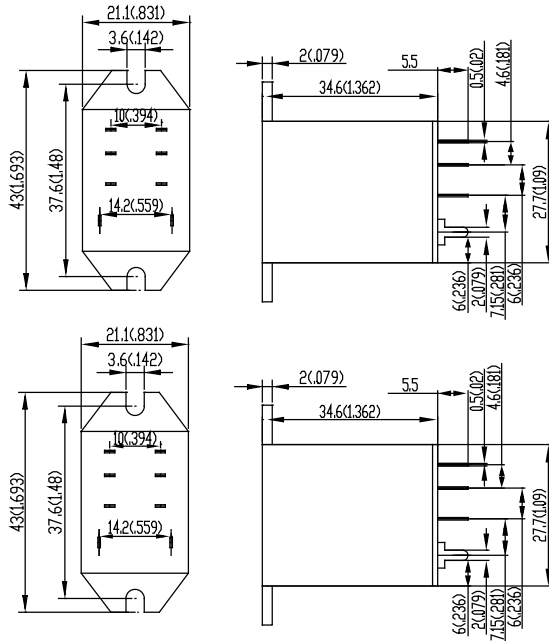
1 Form C



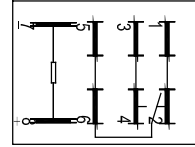
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P.C.B Terminal电路板式端子

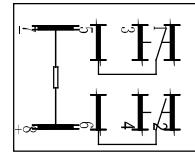
Dimensions尺寸



Internal Connections接线图
(Bottom View底视图)

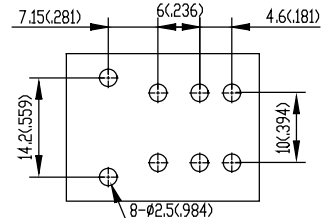
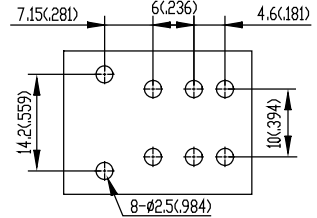


1 Form C



2 Form C

Drilling Plan孔位图
(Bottom View底视图)

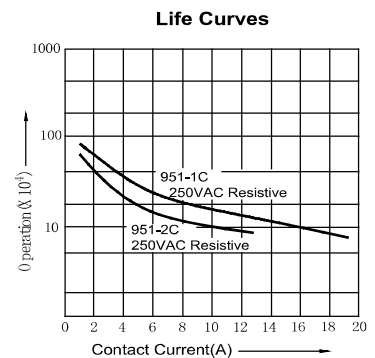
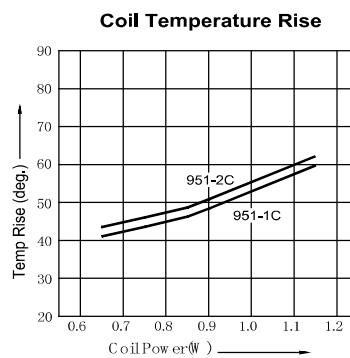
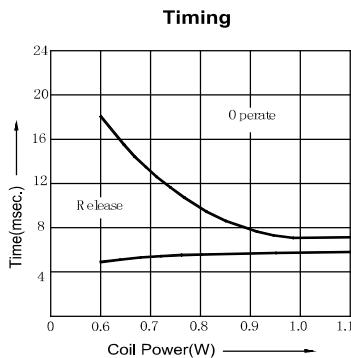


*REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$

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 $+0.2\text{mm}$

*The polarity of coil is only applied for DL, DN, DPL and DPN type 线圈极性仅适用于DL, DN, DPL 及 DPN

951(1C、2C) Reference Data 参考资料



SAFETY STANDARD安规认证

SAFETY 安规名称	Coil Voltage 线圈电压	Contact Rated 接点额定值
CQC	DC: 12V, 24V, 48V AC: 110V, 220V	(951-1A) 20A 250VAC (951-1C) 16A 250VAC (951-2A/2C) 10A 250VAC
UL	DC: 6 ~ 110V AC: 12 ~ 240V	(951-1A) 20A 250VAC, 16A 30VDC (951-1C) 16A 250VAC, 16A 30VDC (951-2C) 10A 250VAC, 10A 30VDC