

POWER RELAY 功率继电器	TRC2
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- Creepage distance: 10mm
爬电距离: 10mm
- Transparent sealed available
可提供透明外壳
- Class B/F available
绝缘等级 B/F 级
- Conform to RoHS, ELV directive
符合 ROHS, ELV 指令



CONTACT DATA 触点参数

Contact Arrangement 触点形式	1H/1Z
Contact Material 触点材料	Silver Alloy 银合金
Load 负载	Resistive load 阻性负载 (cos Φ=1)
Contact Ratings 触点负载	16A 250VAC TV-5A@ 125VAC
Min. Contact Load 最小负载	100mA 5VDC
Max. Switching Voltage 最大切换电压	440VAC/125VDC
Max. Switching Current 最大切换电流	16A
Max. Switching Power 最大切换功率	4000VA
Contact Resistance 接触电阻	≤100mΩ (6VDC 1A)
Electrical Endurance 电耐久性	1×10 ⁵ OPS(at 20OPS/min) 1×10 ⁵ 次(20次/分钟)
Mechanical Endurance 机械耐久性	5×10 ⁶ OPS(at 300 OPS/min) 5×10 ⁶ 次(300次/分钟)

CHARACTERISTICS 性能参数

Insulation Resistance 绝缘电阻	100MΩ Min. at 500VDC	
Dielectric Strength 介质耐压	Between Open Contacts 触点间	1000VAC (50/60Hz 1 min)
	Between Contacts and Coil 触点与线圈间	5000VAC (50/60Hz 1 min)
Operate Time 动作时间	≤15ms	
Release Time 释放时间	≤8ms	
Ambient Temperature 环境温度	-40℃to+85℃	
Shock Resistance 冲击	Functional 稳定性:	10G
	Destructive 强度:	100G
Vibration Resistance 振动	10~55Hz, 1.5mm DA 双振幅	
Humidity 湿度	40~85%	
Unit Weight 重量	Approx. 14g 约14克	

■ COIL DATA 线圈参数 (at 23°C)

Rated Voltage 额定电压 (VDC)	5	6	9	12	18	24	48	60	0.4W
Coil Resistance 线圈电阻 ($\Omega \pm 10\%$)	62	90	202	360	810	1440	5760	7500	
Rated Current 额定电流 (mA)	80	66.7	44.6	33.3	22.2	16.7	8.3	8	
Max. Operate Voltage 最大动作电压 (VDC)	3.75	4.5	6.75	9	13.5	18	36	45	
Min. Release Voltage 最小释放电压 (VDC)	0.5	0.6	0.9	1.2	1.8	2.4	4.8	6.0	
Max Voltage 最大电压	6.5	7.8	11.7	15.6	23.4	31.2	62.4	78	

Remark: Max. Voltage refers to the maximum voltage which relay coil could endure in a period of time.

备注：最大电压是指继电器线圈在短时间内能够承受的最大电压值。

■ SAFETY APPROVED RATINGS 安全认证

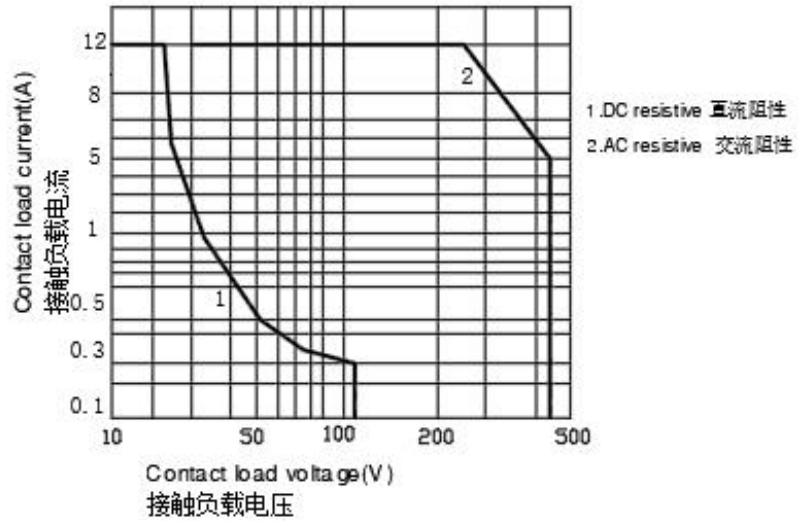
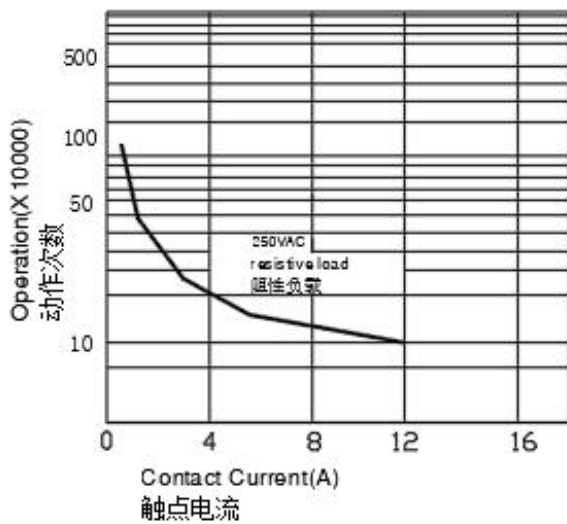
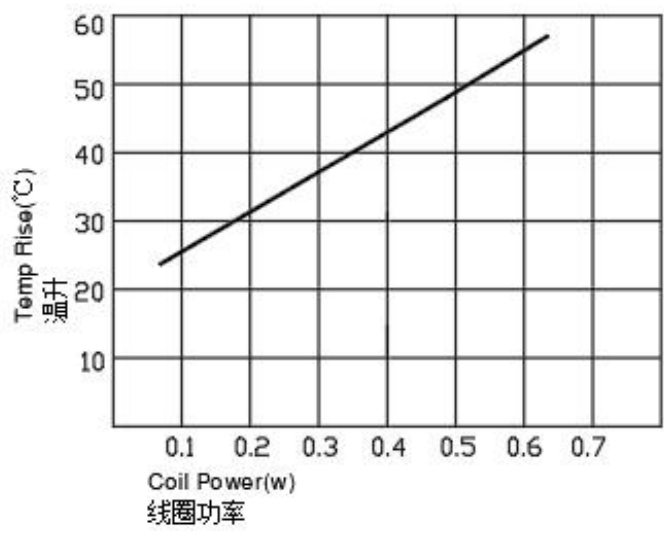
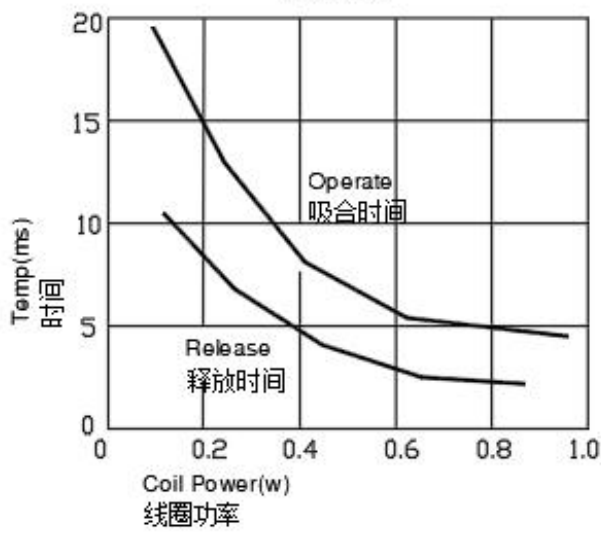
Model(型号)	Coiling rating (线圈电压)	Safety Standard (安全标准)	Contact rating (触点负载)
TRC2	5 to 60VDC	UL/cUL	16A 250VAC TV-5A@ 120VAC
		CQC	16A 250VAC
		TUV	NO 16A250VAC, NC 12A250VAC

■ ORDERING INFORMATION 订货标记示例

	TRC2	D	-12VDC	-S	-Z	XX
Type 型号						
Coil Power 线圈功率	D:0.4W					
Coil Voltage 线圈电压	05, 06, 09, 12, 18, 24, 48, 60VDC					
Construction 封装方式	Plastic sealed or flux proofed 塑封型或防焊剂型					
Contact Arrangement 触点形式	H: 1 Form A Z: 1 Form C H: 一组常开 Z: 一组转换					
Special Code 特性号	XX: Customer Special Requirement 客户特殊要求 IT: Compliant with IEC 60335-1 (GWT) Nil: Standard Type IT: 满足 IEC 60335-1 (GWT) 无: 标准型					

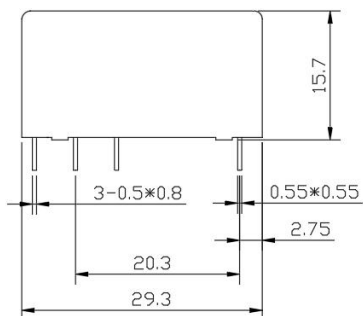
■ CHARACTERISTIC CURVES 性能曲线图

Timing
时间曲线

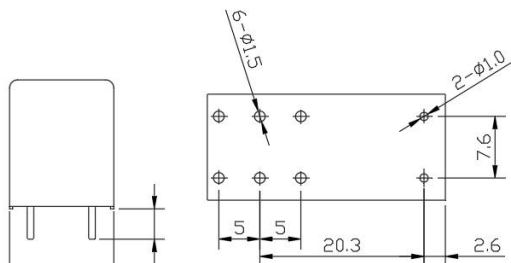


■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT 外形图、接线图、安装孔尺寸

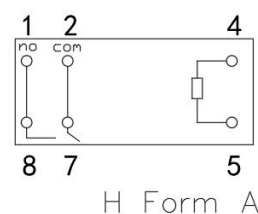
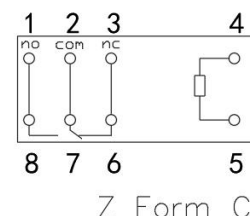
OUTLINE DIMENSIONS
外形尺寸



PC BOARD LAYOUT
安装孔尺寸



WIRING DIAGRAM
接线图



备注:

- 1) 产品外形图的标注尺寸为沾锡前尺寸（沾锡后会变大），安装孔尺寸为推荐的 PCB 板孔的设计尺寸，具体 PCB 板孔设计尺寸可根据产品实物进行测绘、调整；
- 2) 产品部分外形尺寸中未注尺寸公差：当外形尺寸 $\leq 1\text{mm}$ 时，公差为 $\pm 0.2\text{mm}$ ；当外形尺寸在 $1\sim 5\text{mm}$ 时，公差为 $\pm 0.3\text{mm}$ ；当外形尺寸 $> 5\text{mm}$ 时，公差为 $\pm 0.4\text{mm}$ 。
- 3) 安装孔尺寸中未注尺寸公差均为 $\pm 0.1\text{mm}$ 。

Remark:

- 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
- 2) The additional tin top is max. 1mm.
- 3) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

声明:

本产品规格书仅供客户使用时参考，如有更改，恕不另行通知。

Disclaimer:

The specification is for reference only. Specification subject to change without notice.