

POWER RELAY 功率继电器	TRA4
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- UL TV-5 rating relay UL TV-5 负载
- 1 form A contact arrangement 1A 触点形式
- Applications include appliance, HAVC, CTV, Monitor, emergency lighting
应用范围包括电器, HAVC, 彩电, 监视器, 应急灯
- Conform to RoHS,ELV directive 符合 RoHS、ELV 指令



CONTACT DATA 触点参数

Contact Arrangement 触点形式	1H
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	10A 250VAC/30VDC TV-5(5A@120VAC)
Min. Contact Load 最小负载	100mA 5VDC
Max. Switching Voltage 最大切换电压	250VAC/110VDC
Max. Switching Current 最大切换电流	10A
Max. Switching Power 最大切换功率	2500VA/300W
Contact Resistance 接触电阻	≤100mΩ (6VDC 1A)
Electrical Endurance 电耐久性	1×10 ⁵ OPS(at 6 OPS/min) 1×10 ⁵ 次(6次/分钟)
Mechanical Endurance 机械耐久性	1×10 ⁷ OPS(at 300 OPS/min) 1×10 ⁷ 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	900VAC (50/60Hz 1 min)
	Between Contacts and Coil 触点与线圈间	4000VAC (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℃ ~ +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	20~85%	
Unit Weight 重量	Approx. 11g 约11克	

COIL DATA 线圈参数 (at 23℃)

Rated Voltage 额定电压 (VDC)	3	5	6	9	12	24	48	0.25W
Coil Resistance 线圈电阻 (Ω±10%)	36	100	144	324	576	2304	9216	
Rated Current 额定电流 (mA)	83	50	42	28	21	10	5	
Max. Operate Voltage 最大动作电压 (VDC)	2.25	3.75	4.5	6.75	9	18	36	
Min. Release Voltage 最小释放电压 (VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	

Max. Voltage 最大电压	3.9	6.5	7.8	11.7	15.6	31.2	62.4	
Coil Resistance线圈阻值($\Omega \pm 10\%$)	17	46	67	150	270	1050	4250	0.54W
Rated Current额定电流(mA)	180	108	90	60	45	22.5	11.3	
Max Operate Voltage 最大吸合电压(VDC)	2.25	3.75	4.5	6.75	9	18	36	
Min Release Voltage最小释放电压(VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	
Max. Voltage 最大电压	3.9	6.5	7.8	11.7	15.6	31.2	62.4	

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。

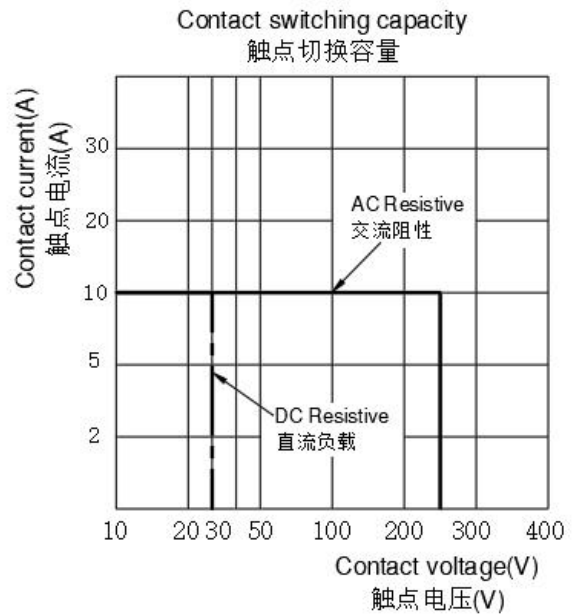
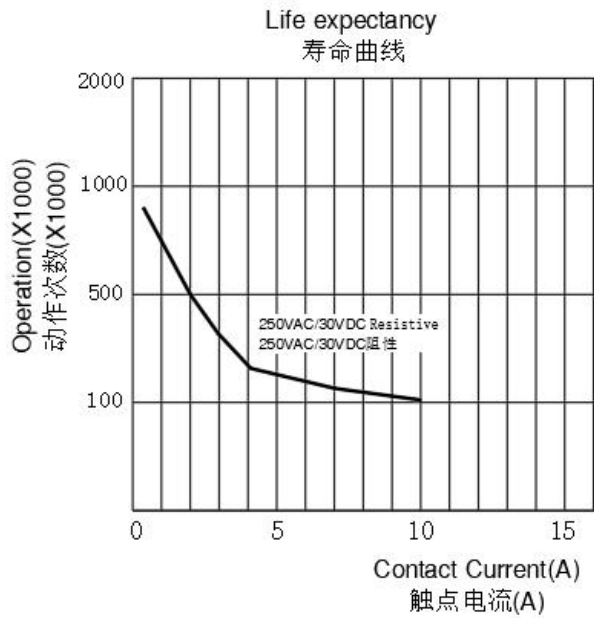
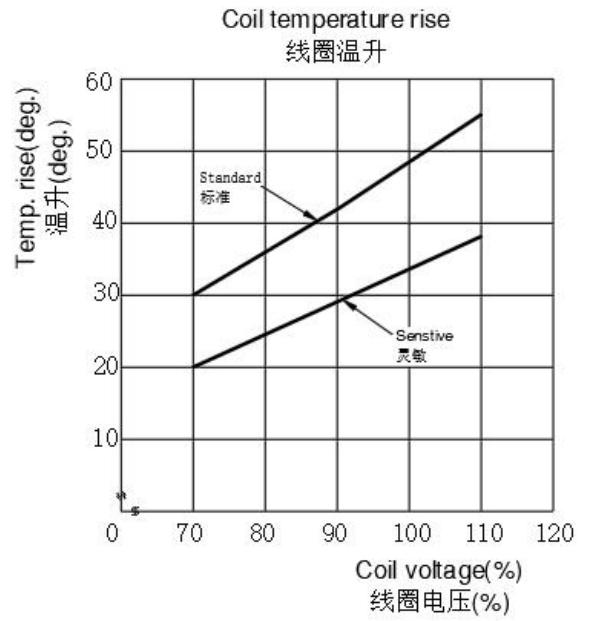
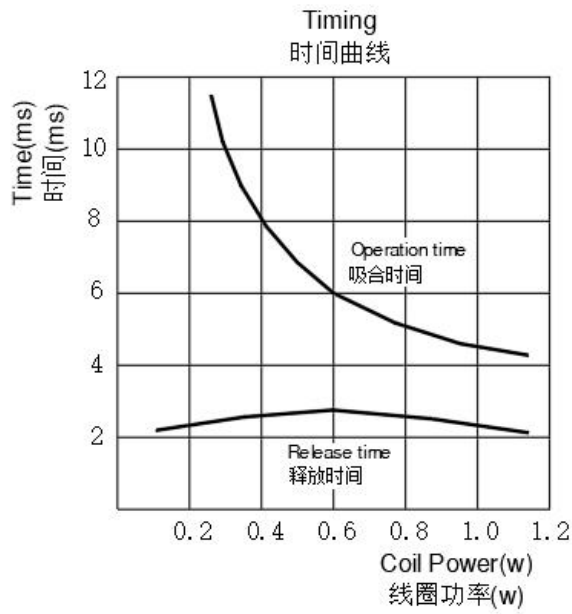
■ SAFETY APPROVED RATINGS 安全认证

Type(型号)	Coil Voltage (线圈电压)	Safety Approval (安全认证)	Contact Ratings (触点负载)
TRA4	3~24VDC	TÜV	10A 250VAC 10A 30VDC
		UL/cUL	10A 250VAC 10A 30VDC TV-5 5A 120VAC
		CQC	10A 250VAC
		S	5/40A 250VAC 3/100A 250VAC

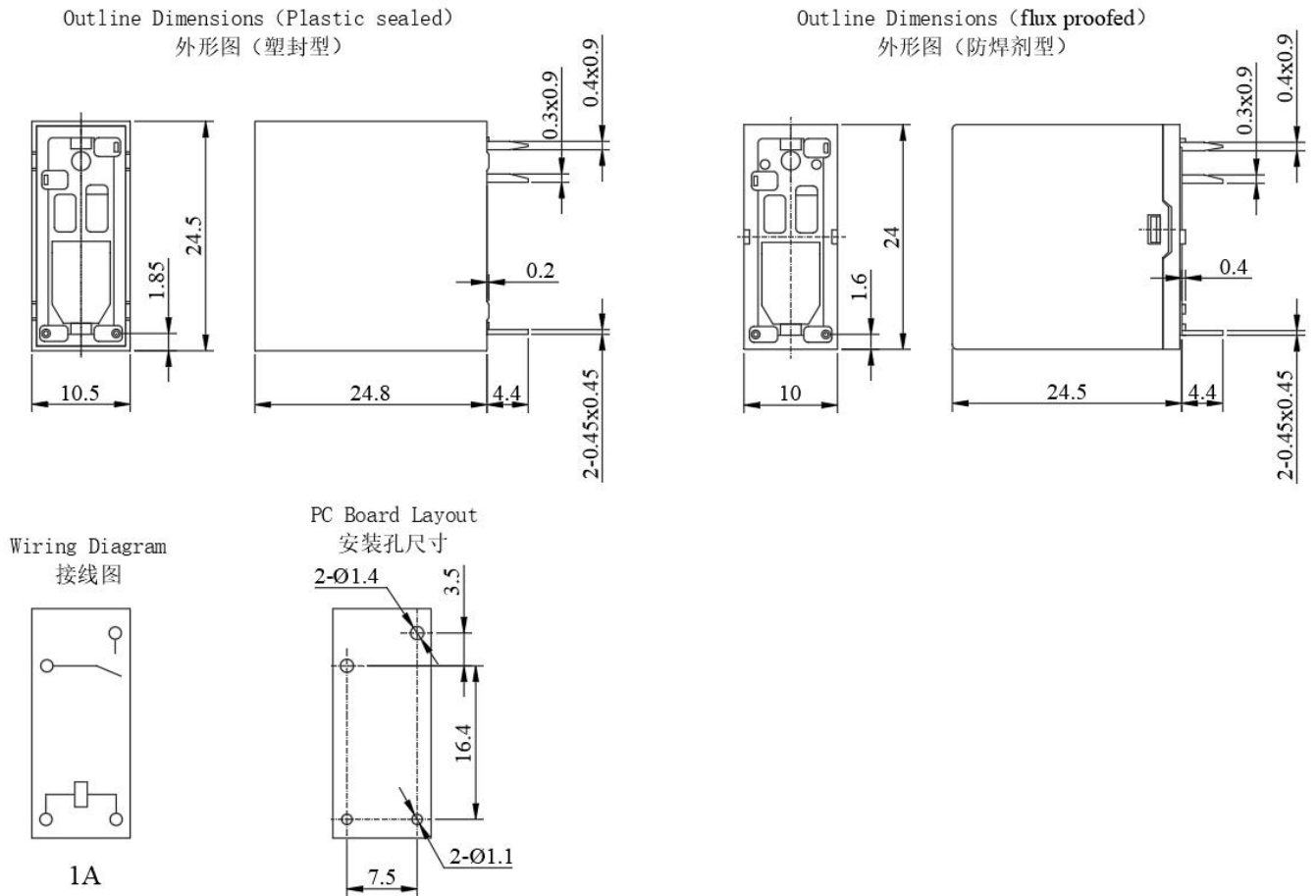
■ ORDERING INFORMATION 订货标记示例

	TRA4	D	-12VDC	-S	-H	/XX
Type 型号						
Coil Power 线圈功率	D: 0.54W, L: 0.25W					
Coil Voltage 线圈电压	03, 05, 06, 09, 12, 18, 24, 48VDC					
Construction 封装方式	S: Plastic sealed or flux proofed S: 塑封型或防焊剂型					
Contact Arrangement 触点形式	H: 1 Form A H: 一组常开					
Special Code 特性号	XX: Customer Special Requirement, Nil: Standard Type, IT: Compliant with IEC 60335-1 (GWT) XX: 客户特殊要求, 无: 标准型, IT: 满足 IEC 60335-1 (GWT)					

■ CHARACTERISTIC CURVES 性能曲线图



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



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.