

<b>PCB 继电器</b>	<b>TRA4</b>
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- UL TV-5 rating relay
- 1 form A contact arrangement  
Immersion cleanable, sealed version available
- Applications include appliance, HVAC, CTV, Monitor, emergency lighting
- Conform to RoHS, ELV directive



**ORDERING CODE 订购代码**

<u>TRA4</u> <u>D</u> — <u>12VDC</u> — <u>S</u> — <u>H/C</u> <u>xx</u> 1        2        3        4        5 6 7		
1. Relay Model 继电器型号 2. Coil Power 线圈功率 D=0.54W, L=0.25W 3. Coil Nominal Voltage 线圈额定电压 3,5,6,9,12,24,48VDC 4. Type of Sealing 封装类型	S: Sealed type 密封型 5. Contact Form 触点排列 H: Form A 6. Case Type 外壳类型 Nil: Sealed Cover 密封壳 C: Flux tight Cover 防尘壳	7. 特殊代号 Nil: Standard Type 标准 IT: GWIT 灼热丝 750°C (at ≤2 s)

**COIL DATA 线圈参数 (at 20°C)**

Nominal Voltage 额定电压(VDC)	3	5	6	9	12	24	48	0.25W
Coil Resistance 线圈阻值(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	
Coil Resistance 线圈阻值(Ω ±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 Applicable Voltage 最大过载电压	70°C时额定电压的130%，23°C时额定电压的170%							

**CONTACT DATA 触点参数**

Contact Form 触点形式	1H
Contact Material 触点材料	Silver Alloy
Load 负载	Resistive load (COS Φ 1)
Contact Ratings 触点负载	10A 250VAC/30VDC TV-5(5A@120VAC)
Minimum load 最小负载	100mA 5VDC
Max Switching Voltage 最大转换电压	250VAC/110VDC
Max Switching Current 最大转换电流	10A
Max Switching Power 最大转换功率	2500VA/300W
Contact Resistance 接触电阻	100m Ω Max                      at 6VDC 1A
Life Expectancy 寿命	Electrical 电气寿命: 100,000 Operations (at 30 Operations/minute)
	Mechanical 机械寿命: 10,000,000 Operations (at 300 Operations/minute)

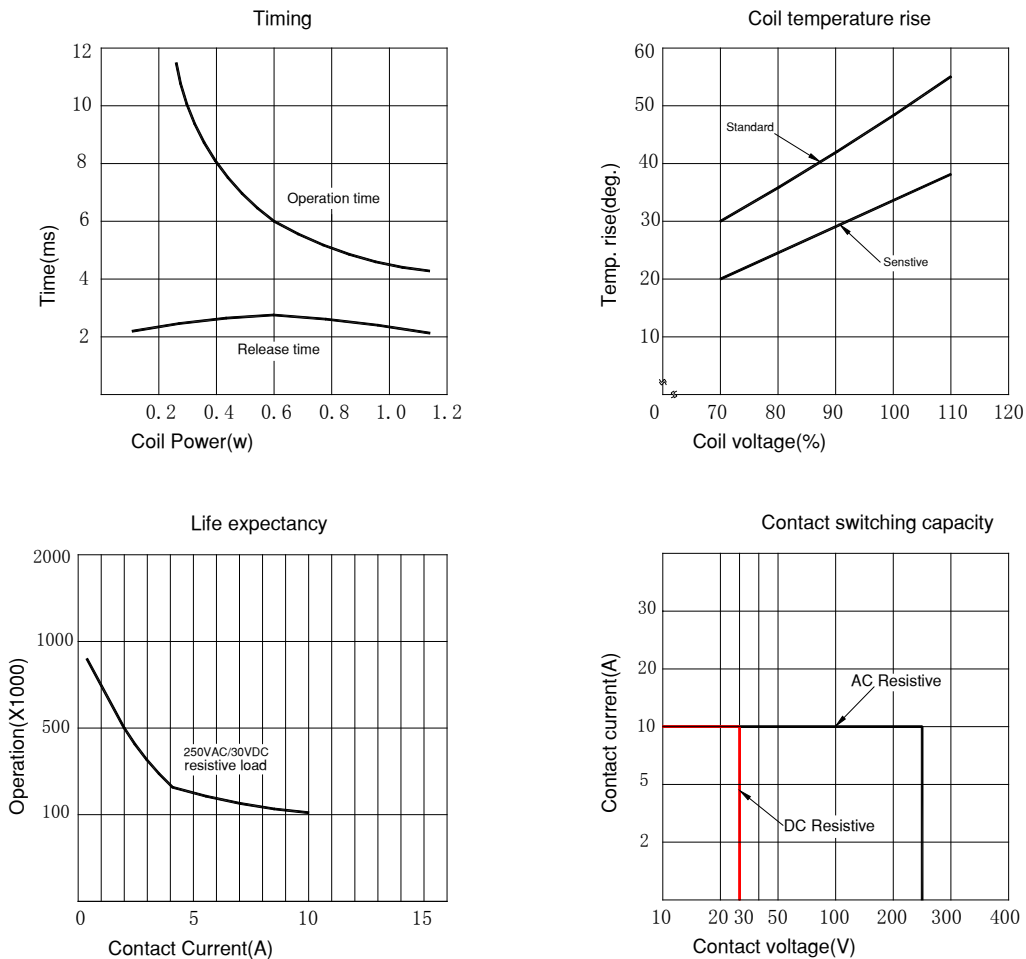
### ■ CHARACTERISTICS DATA 性能参数

Insulation Resistance绝缘阻值	100MΩ Min at 500VDC
Dielectric Strength Between Open Contacts触点间耐压	900VAC(for one minute)
Between Contacts and coil触点与线圈间耐压	4000VAC(for one minute)
Operate Time吸合时间	15ms
Release Time释放时间	8ms
Temperature Range环境温度	-30°C to +85°C
Shock Resistance冲击	Operating Extremes动作极限: 10G
	Damage Limits破坏极限: 100G
Vibration Resistance振动	10-55Hz, 1.5mm
Max. switching frequency最大转换频率	Mechanical: 18,000operations/hr
	Electrical: 1,800operations/hr
Humidity湿度	20-85%
Weight重量	Approx 11g
Safety Standard安全标准	UL cUL TÜV CQC S

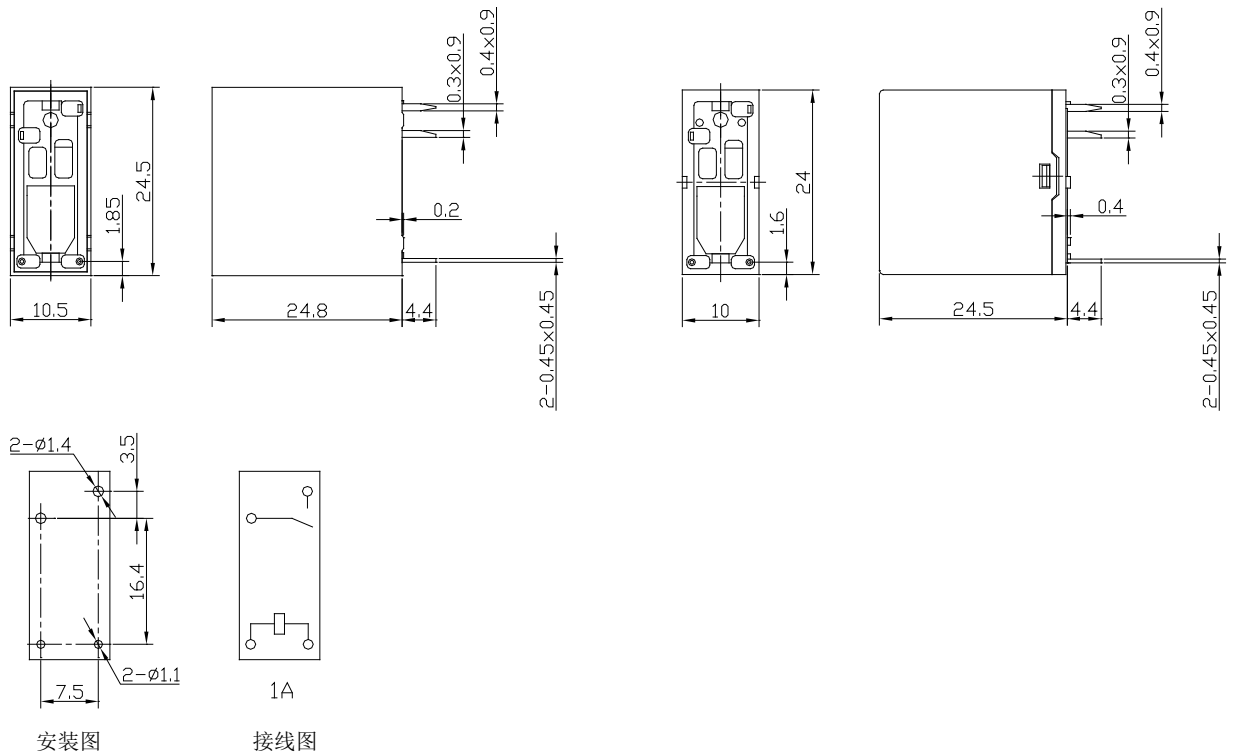
### ■ APPROVED STANDARDS 安全标准

Model(型号)	Coiling rating (线圈电压)	Safety Standard (安全标准)	Contact rating (触点负载)
TRA4	3 to 48VDC	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		

### ■ ENGINEERING DATA 设计参数



## ■ OVERALL AND MOUNTING DIMENSIONS 安装图



- 备注：1) 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 $\pm 0.4\text{mm}$ 。  
2) 安装孔尺寸中未注尺寸公差均为 $\pm 0.1\text{mm}$ 。

### 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。