

# PCB 继电器

# TRA2F

- 16A switching capabilities
- 5KV dielectric strength between coil to contacts
- 10KV surge voltage between coil to contacts
- Meet requirements of 8mm creepage distance
- Class B/F available
- Conform to RoHS,ELV directive



CQC08002028074

US E173485

R50113138

## ORDERING CODE 订购代码

<u>TRA2F</u> — <u>12VDC</u> — <u>H</u>		
1	2	3
1. Relay Model 继电器型号 2. Coil Nominal Voltage 线圈额定电压 5,6,9,12,18,24,48VDC 3. 触点转换形式 H: Form A		

## COIL DATA 线圈参数 (at 20°C)

Nominal Voltage 额定电压(VDC)	5	6	9	12	18	24	48	0.54W
Coil Resistance 线圈阻值( $\Omega \pm 10\%$ )	46	67	150	270	620	1050	4250	
Rated Current 额定电流(mA)	108	90	60	45	29	22.5	11.3	
Max Operate Voltage 最大吸合电压(VDC)	4	4.8	7.2	9.6	14.4	19.2	38.4	
Min Release Voltage 最小释放电压(VDC)	0.5	0.6	0.9	1.2	1.8	2.4	4.8	
Max Applicable Voltage 最大过载电压	85°C时额定电压的160%							

## CONTACT DATA 触点参数

Contact Form 触点形式	1H
Contact Material 触点材料	Silver Alloy
The thickness of Silver Alloy Contact 触点银合金层厚度	$\geq 0.3\text{mm}$
Load 负载	Resistive load(COS $\Phi=1$ )
Contact Ratings 触点负载	16A 250VAC      20A 125VAC 16A 30VDC
Minimum load 最小负载	-----
Max Switching Voltage 最大转换电压	277VAC/30VDC
Max Switching Current 最大转换电流	20A
Max Switching Power 最大转换功率	-----
Contact Resistance 接触电阻	50m $\Omega$ Max      at 6VDC 1A
Life Expectancy 寿命	Electrical 电气寿命: 100,000 Operations(at30Operations/minute)
	Mechanical 机械寿命: 10,000,000 Operations(at300Operations/minute)

## ■ CHARACTERISTICS DATA 性能参数

Insulation Resistance绝缘阻值	1000MΩ Min at 500VDC
Dielectric Strength Between Open Contacts触点间耐压	1000VAC(for one minute)
Between Contacts and coil触点与线圈间耐压	5000VAC(for one minute)
Operate Time吸合时间	7.2ms±1.5ms
Release Time释放时间	5ms Max
Temperature Range环境温度	-40°C to +85°C (no freezing)
Shock Resistance冲击	Operating Extremes动作极限: 10G 11ms
	Damage Limits破坏极限: 100G 6ms
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	40-85%
Weight重量	Approx 15g
Safety Standard安全标准	UL cUL TÜV CQC

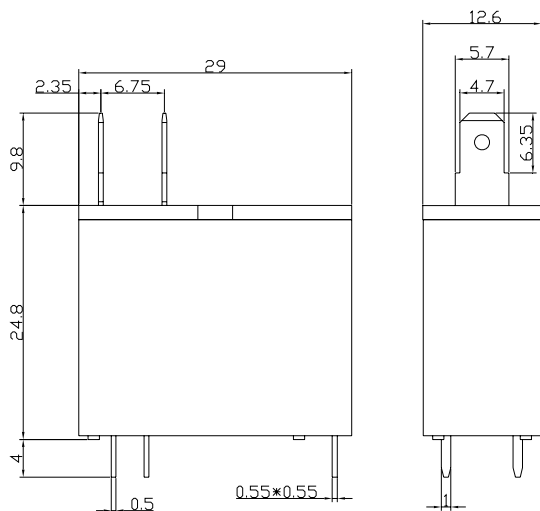
注：继电器的塑料用 750 度灼热丝时不起燃 The Plastic of relays is not flammable in Glow wire of 750°C。

## ■ APPROVED STANDARDS 安全标准

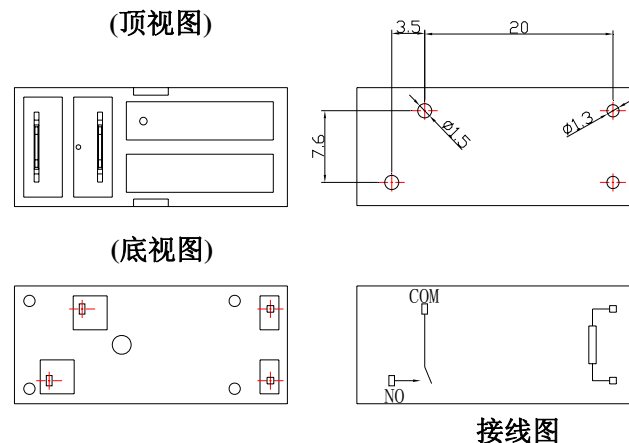
Model(型号)	Coiling rating (线圈电压)	Safety Standard (安全标准)	Contact rating (触点负载)
TRA2F	5 to 48VDC	TUV	16A 250VAC    16A 30VDC
		UL&CUL	20A 125VAC
		CQC	16A 250VAC

## ■ OVERALL AND MOUNTING DIMENSIONS 安装图

外形图



安装孔尺寸  
(底视图)



- 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。