

PCB 继电器

TRA1

- 10A switching capability
- SPST-NO&SPDT configuration
- Small footprint
- Sealed version available
- Transparent sealed available
- Class B/F available
- Conform to RoHS,ELV directive



ORDERING CODE 订购代码

TRA1	D	—	12VDC	—	S	—	H	(2)
1	2		3		4		5	6
1. Relay Model 继电器型号	2. Coil Power 线圈功率 D=0.72W, L=0.54W		3. Coil Nominal Voltage 线圈额定电压 3,5,6,9,12,24,48VDC		4. S: Sealed 密封 Z: Form C H: Form A		6. Nil: Standard Type 标准 2: Transparent Cover	

COIL DATA 线圈参数 (at 20℃)

Nominal Voltage额定电压(VDC)	3	5	6	9	12	24	48	
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)	2.4	4	4.8	7.2	9.6	19.2	38.4	
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($\Omega \pm 10\%$)	13	35	50	110	200	800	3200	0.72W
Rated Current额定电流(mA)	240	144	120	80	60	30	15	
Max Operate Voltage 最大吸合电压(VDC)	2.4	4	4.8	7.2	9.6	19.2	38.4	
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℃时额定电压的130%，23℃时额定电压的170%							

CONTACT DATA 触点参数

Contact Form触点形式	1H/1Z
Contact Material触点材料	Silver Alloy
Load负载	Resistive load(COS Φ =1)
Contact Ratings触点负载	10A 240VAC 10A 30VDC
Minimum load 最小负载	100mA 5VDC
Max Switching Voltage最大转换电压	250VAC/30VDC
Max Switching Current最大转换电流	12A
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(at30Operations/minute)
	Mechanical机械寿命: 10,000,000 Operations(at300Operations/minute)

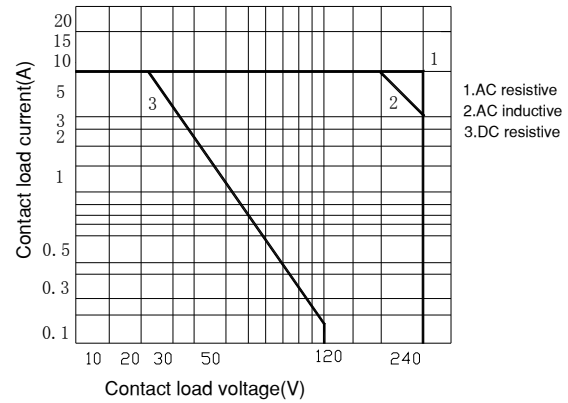
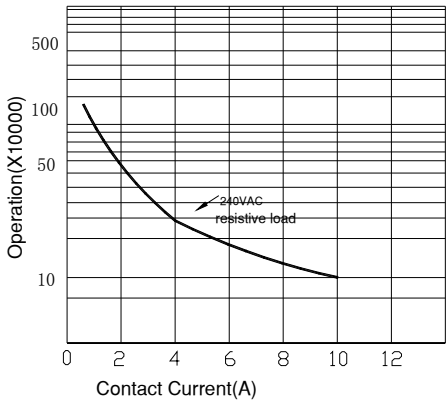
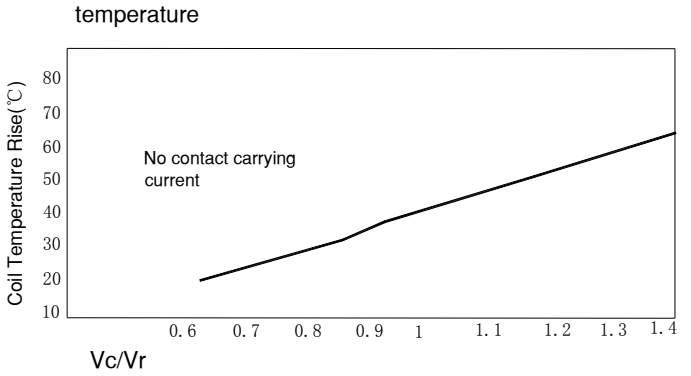
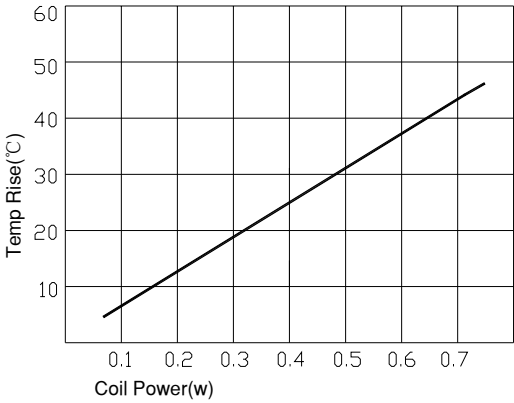
■ CHARACTERISTICS DATA 性能参数

Insulation Resistance绝缘阻值	100M Ω 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	20ms
Release Time释放时间	10ms
Temperature Range环境温度	-40℃to+85℃
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 14g
Safety Standard安全标准	UL cUL TÜV CQC

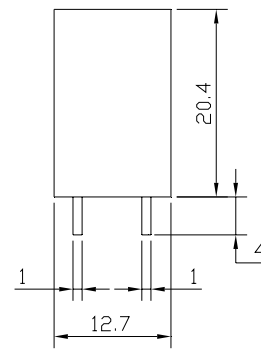
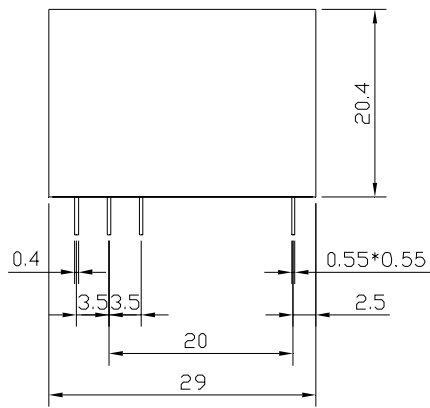
■ APPROVED STANDARDS 安全标准

Model(型号)	Coiling rating (线圈电压)	Safety Standard (安全标准)	Contact rating (触点负载)
TRA1	3 to 48VDC	TÜV	10A 240VAC 10A 30VDC
		UL/cUL	10A 240VAC 10A 30VDC
		CQC	10A 240VAC

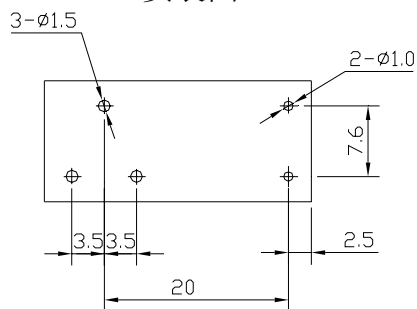
■ ENGINEERING DATA 设计参数



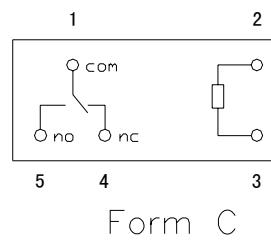
■ OVERALL AND MOUNTING DIMENSIONS 安装图



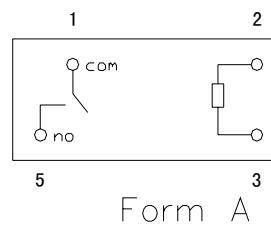
安装图



接线图



Form C



Form A

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。