



PCB 继电器

TRA1H

16A switching capability

- Sealed version available
- Transparent sealed available
- Class B/F available
- Conform to RoHS,ELV directive



ORDERING CODE 订购代码

TRA1H	D	—	12VDC	—	S	—	H	TBF-1	xx
1	2		3		4		5	6	7
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 5. 触点转换形式 Z: Form C H: Form A			6. Nil:Standard Type 标准 TBF-1:Class F (155℃)	7. 特殊代号 IT: GWIT灼热丝750℃(at ≤2 s) Nil: Standard Type标准

COIL DATA 线圈参数 (at 20℃)

Nominal Voltage额定电压(VDC)	3	5	6	9	12	24	48	0.54W
Coil Resistance线圈阻值(Ω ±10%)	17	46	67	150	270	1050	4250	
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(Ω ±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	16A 250VAC 16A 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	16A
Max Switching Power 最大转换功率	4000VA/480W
Contact Resistance接触电阻	100mΩ 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)

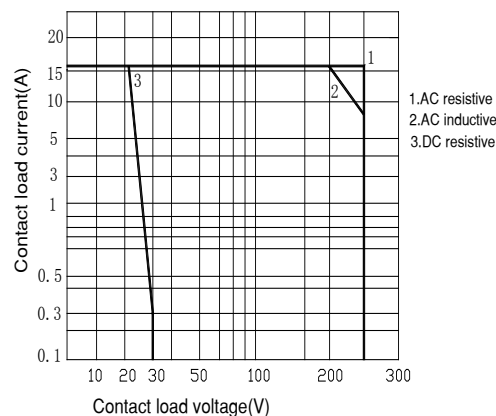
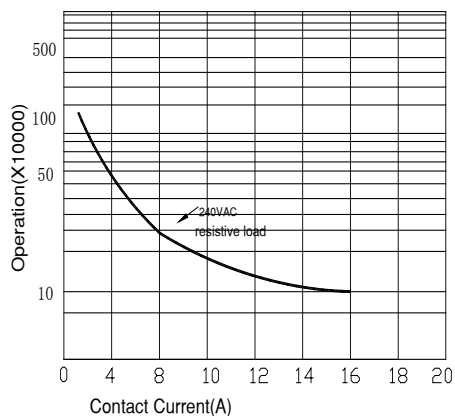
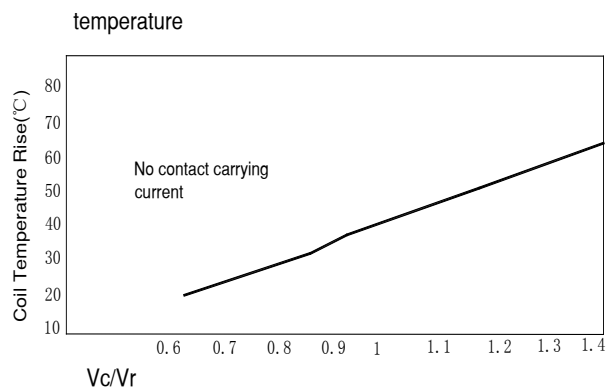
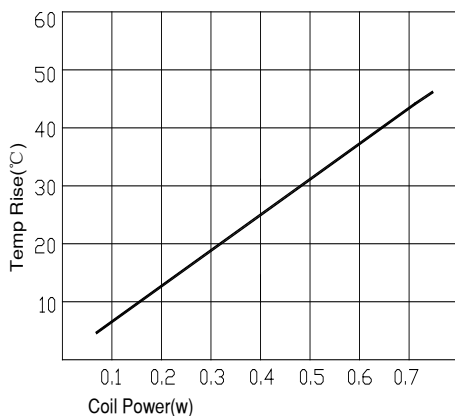
■ CHARACTERISTICS DATA 性能参数

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°C to +70°C
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: 18,000 operations/hr
	Electrical: 1,800 operations/hr
Humidity 湿度	40-85%
Weight 重量	Approx 14g
Safety Standard 安全标准	UL cUL

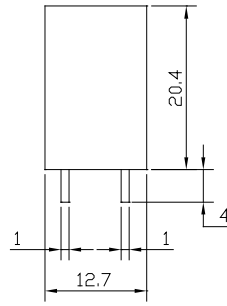
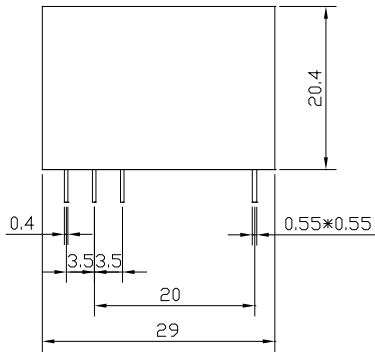
■ APPROVED STANDARDS 安全标准

Model (型号)	Coiling rating (线圈电压)	Safety Standard (安全标准)	Contact rating (触点负载)
TRA1H	3 to 48VDC	UL/cUL	16A 250VAC 16A 30VDC

■ ENGINEERING DATA 设计参数

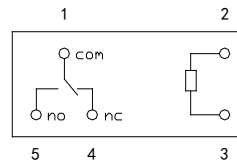
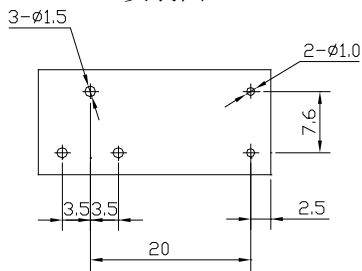


■ OVERALL AND MOUNTING DIMENSIONS 安装图

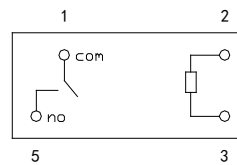


安装图

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 $\pm 0.1\text{mm}$ 。