

通用继电器

TRAF

- 25A miniature general purpose power relay.
- Ideal for motor switching in appliances and HVAC equipment.
- Designed for high inrush compressor loads.
- With or without quick connect terminal & PCB terminal.
- Semi-sealed construction.
- Conform to RoHS,ELV directive.



ORDERING CODE 订购代码

TRAF	D	—	12VDC	—	H	L	F	(XX)
1	2		3		4	5	6	7
1. Relay Model 继电器型号	TRAF: PCB&QC, TRAF-P: PCB				5. Contact Rating 触点负载			
2. Coil Power 线圈功率	D=0.9W, N=1.4W				Nil:Standard, L:Low Capacity, T:30A			
3. Coil Nominal Voltage 线圈额定电压	5,6,9,12,18,24,48VDC				6. Insulation System 绝缘等级			
4. Contact form 触点形式	H: Form A				Nil:Standard, B:Class B, F:Class F			
					7. Special Code 特殊代号			
					Nil:Standard, Letter or number:Special requirement			

COIL DATA 线圈参数 (at 20℃)

Nominal Voltage额定电压(VDC)	5	6	9	12	18	24	48	
Coil Resistance线圈阻值($\Omega \pm 10\%$)	27.8	40	90	160	360	640	2560	
Rated Current额定电流(mA)	180	150	100	75	50	37.5	18.75	0.9W
Max Operate Voltage 最大吸合电压(VDC)	3.75	4.5	6.75	9	13.5	18	36	
Min Release Voltage最小释放电压(VDC)	0.25	0.3	0.45	0.6	0.9	1.2	2.4	
Nominal Voltage额定电压(VDC)	5	6	9	12	18	24	48	
Coil Resistance线圈阻值($\Omega \pm 10\%$)	17.9	25.7	57.9	102.9	231.4	411.4	1645.7	
Rated Current额定电流(mA)	280	233.33	155.56	116.67	77.78	58.33	29.17	1.4W
Max Operate Voltage 最大吸合电压(VDC)	3.75	4.5	6.75	9	13.5	18	36	
Min Release Voltage最小释放电压(VDC)	0.25	0.3	0.45	0.6	0.9	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
Contact Material触点材料	Silver Alloy
Load负载	Resistive load(COS Φ 1)

Contact Ratings触点负载	D-H:25A 250VAC; D-HL:18A 250VAC; N-H:22A 250VAC; D-HT: 30A250VAC
Minimum load 最小负载	100mA 5VDC
Max Switching Voltage最大转换电压	250VAC
Max Switching Current最大转换电流	30A
Max Switching Power 最大转换功率	6250VA
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)

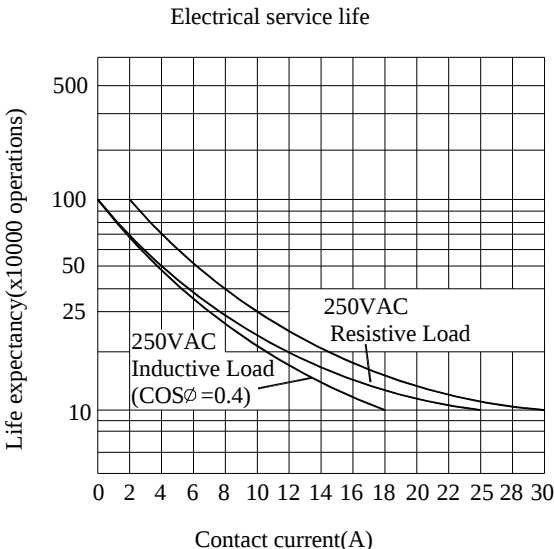
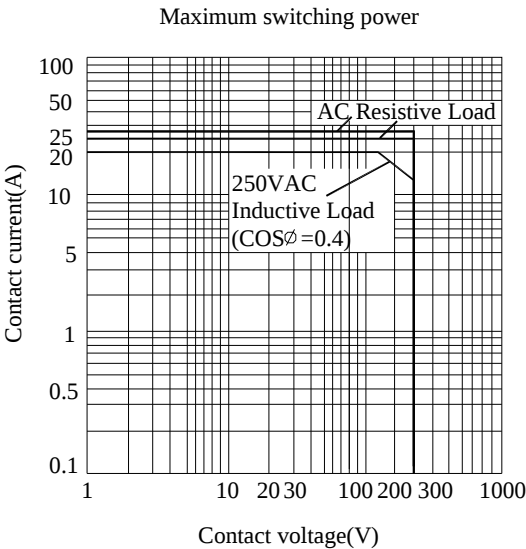
■ CHARACTERISTICS DATA 性能参数

Insulation Resistance绝缘阻值	1000M Ω Min at 500VDC
Dielectric Strength Between Open Contacts触点间耐压	D:1500VAC(for one minute) , N:2500VAC(for one minute)
Between Contacts and coil触点与线圈间耐压	4500VAC(for one minute)
Operate Time吸合时间	≤ 20 ms
Release Time释放时间	≤ 10 ms
Temperature Range环境温度	-40 $^{\circ}$ C to +85 $^{\circ}$ C (no freezing)
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双振幅
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 23g
Constrution封装方式	Dust protected防尘罩型
Safety Standard安全标准	

■ APPROVED STANDARDS 安全标准

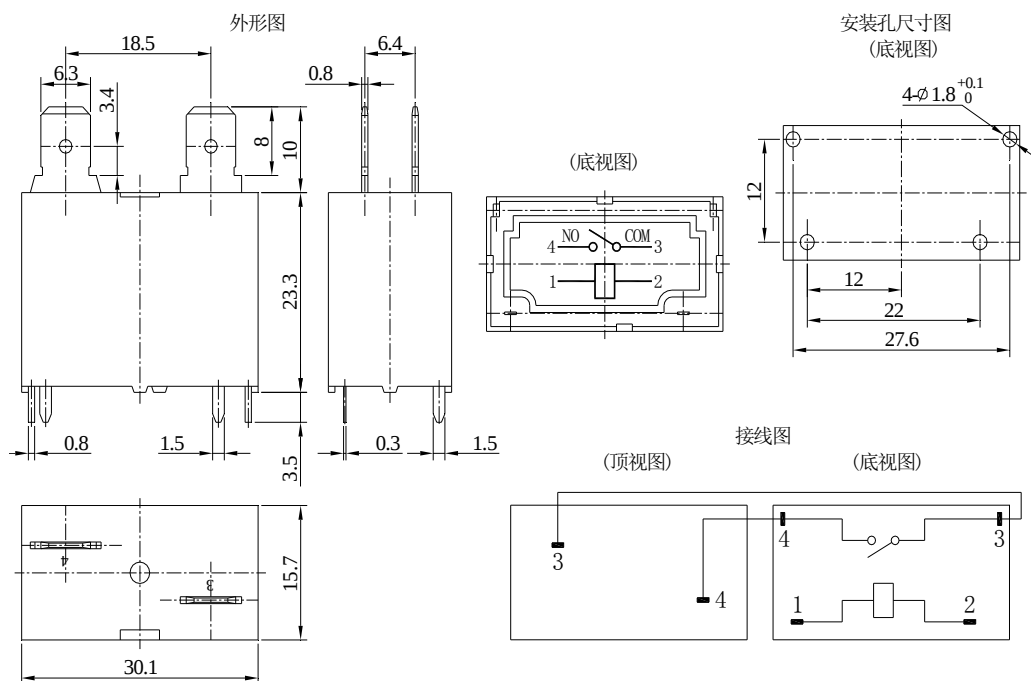
Model(型号)	Coiling rating (线圈电压)	Safety Standard (安全标准)	Contact rating (触点负载)
TRAF	5 to 48VDC	UL,CUL	20A 250VAC
		TÜV	D-H:25A 250VAC, D-HL:18A 250VAC
		CQC	D-H:25A 250VAC, D-HL:18A 250VAC

■ ENGINEERING DATA 设计参数

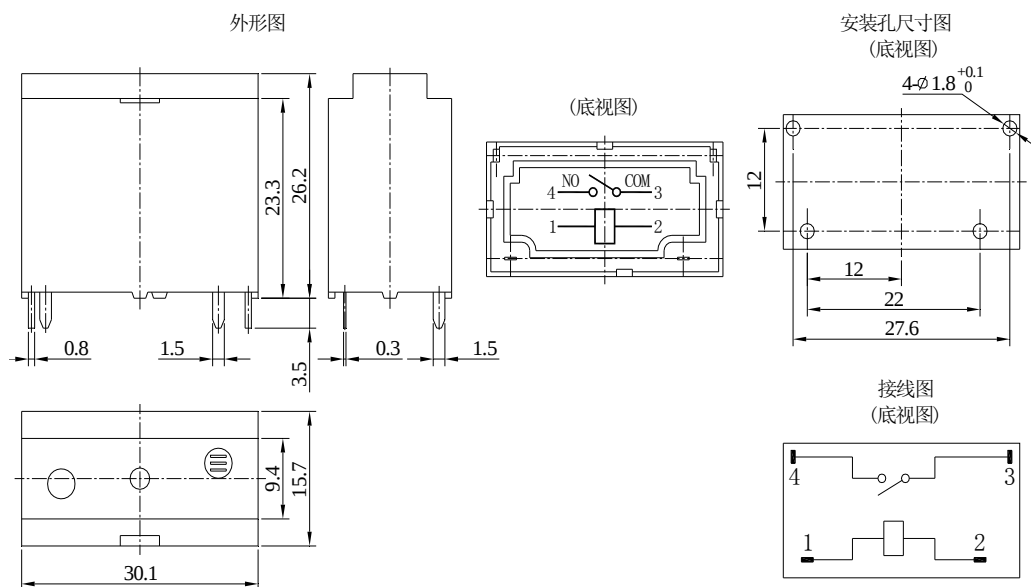


■ OVERALL AND MOUNTING DIMENSIONS 安装图

TRAF



TRAF-P



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 $\pm 0.1\text{mm}$ 。