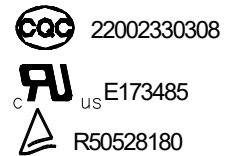
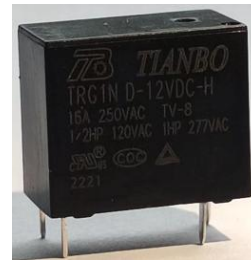


POWER RELAY

TRG1N

- 16A switching capability 16A
- Standard PC layout
- Sealed type available
- Surge resistance of 5000V
- Conform to RoHS,ELV directive



CONTACT DATA

Contact Arrangement	1H
Contact Material	Silver Alloy
Load	Resistive load(COS Φ=1)
Contact Ratings	16A 250VAC/277VAC TV-8 250VAC
Min. Contact Load	100mA 5VDC
Max. Switching Voltage	277VAC
Max. Switching Current	16A
Max. Switching Power	4000VA
Contact Resistance	≤100mΩ (6VDC 1A)
Electrical Endurance	1×10 ⁵ OPS(at 6 OPS/min)
Mechanical Endurance	5×10 ⁶ OPS(at 300 OPS/min)

CHARACTERISTICS

Insulation Resistance		1000M Ω Min. at 500VDC
Dielectric Strength	Between Open Contacts	1000VAC (50/60Hz 1 min)
	Between Contacts and Coil	4000VAC (50/60Hz 1 min)
Operate Time		≤10ms
Release Time		≤5ms
Ambient Temperature		-40℃ ~ +105℃
Shock Resistance 冲击		Functional : 10G
		Destructive : 100G
Vibration Resistance 振动		10~55Hz, 1.5mm DA
Humidity		5~85%
Unit Weight		Approx. 7g

COIL DATA (at 23℃)

Rated Voltage (VDC)	3	5	6	9	12	18	24	48	0.2W
Coil Resistance (Ω±10%)	45	125	180	405	720	1620	2880	11520	
Rated Current (mA)	66.67	40	33.33	22.22	16.67	11.11	8.33	4.17	
Max. Operate Voltage (VDC)	2.25	3.75	4.5	6.75	9	13.5	18	36	
Min. Release Voltage (VDC)	0.15	0.25	0.3	0.45	0.6	0.9	1.2	2.4	

Max. Voltage	3.9	6.5	7.8	11.7	15.6	23.4	31.2	62.4	
Coil Resistance($\Omega \pm 10\%$)	22	62	90	202	360	810	1440	5760	0.4W
Rated Current(mA)	133.3	80	66.67	44.44	33.33	22.22	16.67	8.33	
Max Operate Voltage (VDC)	2.25	3.75	4.5	6.75	9	13.5	18	36	
Min Release Voltage(VDC)	0.15	0.25	0.3	0.45	0.6	0.9	1.2	2.4	
Max. Voltage	3.9	6.5	7.8	11.7	15.6	23.4	31.2	62.4	
Coil Resistance($\Omega \pm 10\%$)	/	31	45	101	180	405	720	2880	0.8W
Rated Current(mA)	/	160	133.33	88.89	66.67	44.44	33.33	16.67	
Max Operate Voltage (VDC)	/	3.75	4.5	6.75	9	13.5	18	36	
Min Release Voltage(VDC)	/	0.25	0.3	0.45	0.6	0.9	1.2	2.4	
Max. Voltage	/	6.5	7.8	11.7	15.6	23.4	31.2	62.4	

Remark: Max. Voltage refers to the maximum voltage which relay coil could endure in a period of time.

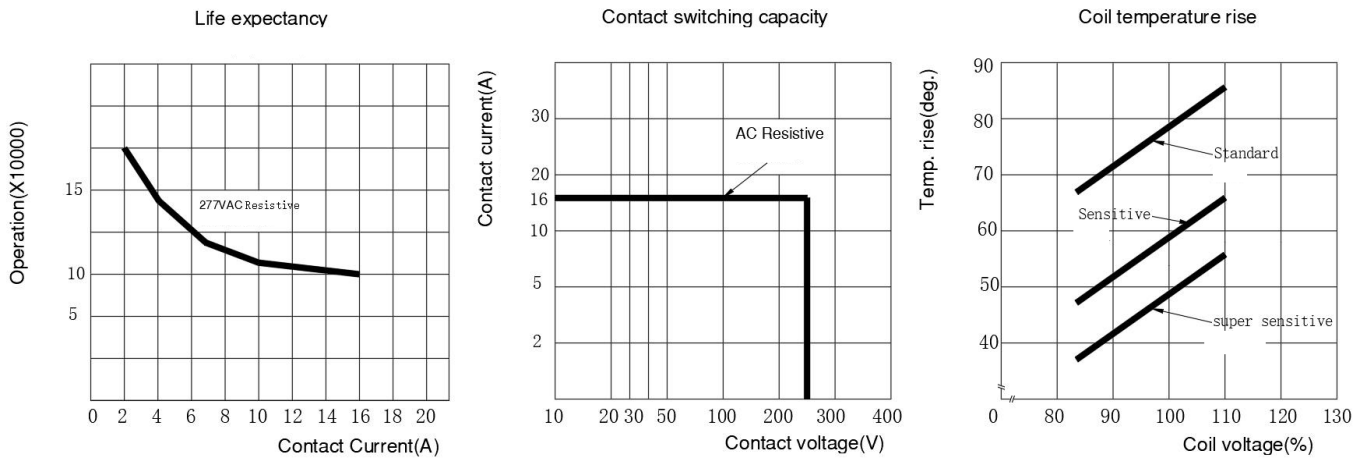
■ SAFETY APPROVED RATINGS

Type	Coil Voltage	Safety Approval	Contact Ratings
TRG1N	3~48VDC	UL	16A 277VAC, TV-8 250VAC, 1HP 277VAC, 1/2HP 120VAC 1/4HP 115/120/125/230/240/250/277VAC
		CQC	16A 277VAC
		TÜV	16A 277VAC

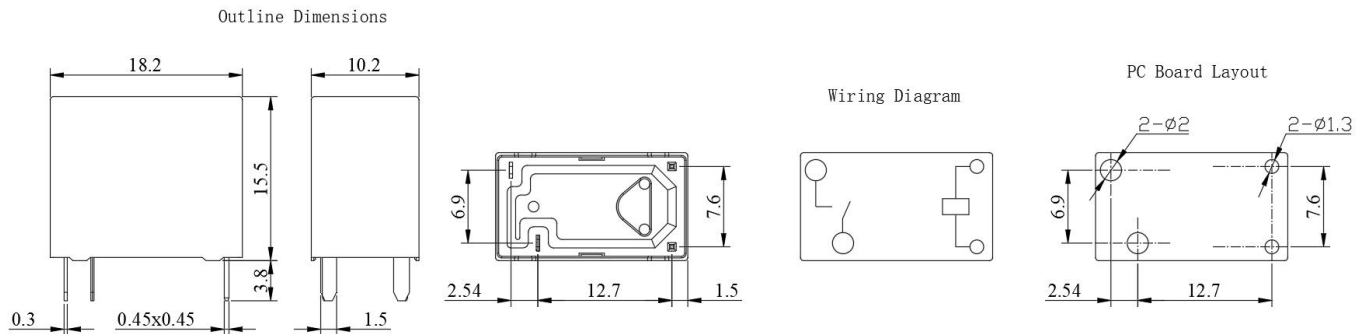
■ ORDERING INFORMATION

Type	TRG1N	D	-12VDC	-S	-H	/XX
Coil Power	D: 0.8W, L: 0.4W, M: 0.2W					
Coil Voltage	03, 05, 06, 09, 12, 18, 24, 48VDC					
Construction	S: Plastic sealed, Nil: flux proofed					
Contact Arrangement	H: 1 Form A					
Special Code	XX: Customer Special Requirement, Nil: Standard Type, IT: Compliant with IEC 60335-1 (GWT), Ex nC IIC Gc: Explosion-Proof					

■ CHARACTERISTIC CURVES



■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT



Remark:

- 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
- 2) The additional tin top is max. 1mm.
- 3) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

Disclaimer:

The specification is for reference only. Specification subject to change without notice.