



CQC 08002028070

UL E173485

R50108695

■ Features

- 10A switching capability
- Standard PC layout
- Sealed type available
- Surge resistance of 5000V
- Conform to RoHS, ELV directive

■ Ordering Code

TRG1 D — 12VDC — S — H				
1	2	3	4	5
1. Relay Model	2. Coil Power: D=0.45W, L=0.2W		3. Coil Nominal Voltage: 3, 5, 6, 9, 12, 18, 24VDC	
4. S: Sealed	5. Contact Form: H: Form A, Z: Form C			

■ Coil Data (at 20°C)

Nominal Voltage(VDC)	3	5	6	9	12	18	24	0.2W
Coil Resistance($\Omega \pm 10\%$)	45	125	180	405	720	1620	2880	
Rated Current(mA)	66.67	40	33.33	22.22	16.67	11.11	8.33	
Max Operate Voltage(VDC)	2.25	3.75	4.5	6.75	9	13.5	18	
Min Release Voltage(VDC)	0.15	0.25	0.3	0.45	0.6	0.9	1.2	
Coil Resistance($\Omega \pm 10\%$)	20	56	80	180	320	720	1280	0.45W
Rated Current(mA)	150	89.28	75	50	37.5	25	18.75	
Max Operate Voltage(VDC)	2.25	3.75	4.5	6.75	9	13.5	18	
Min Release VoltageVDC)	0.15	0.25	0.3	0.45	0.6	0.9	1.2	
Max Applicable Voltage	130% of nominal voltage at 70°C, 170% of nominal voltage at 23°C							

■ Contact Data

Contact Form	1H/1Z
Contact Material	Silver Alloy
Load	Resistive Load($\cos\phi=1$)
Contact Ratings	1H-D: 10A 125VAC 5A 250VAC/30VDC 1Z(1H-L): 3A 250VAC/30VDC
Minimum Load	100mA 5VDC
Max Switching Voltage	277VAC/30VDC
Max Switching Current	1H-D: 5A 1H-L: 3A
Max Switching Power	1H-D: 1200VA/150W 1H-L: 600VA/90W
Contact Resistance	100m Ω Max at 6VDC 1A
Life Expectancy	Electrical: 100,000 Operations (at 30 Operations/minute)
	Mechanical: 10,000,000 Operations (at 300 Operations/minute)

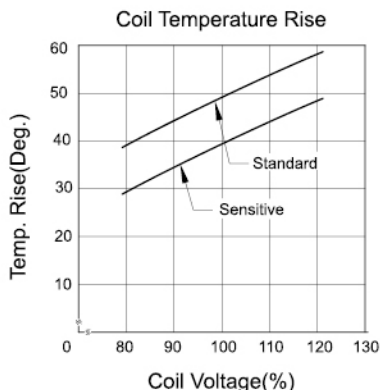
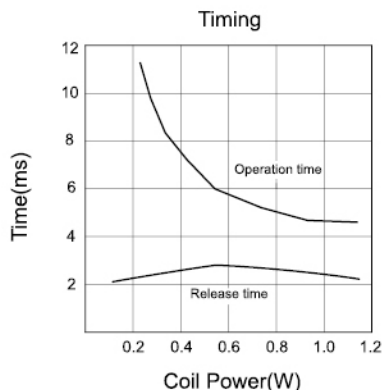
■ Characteristics Data

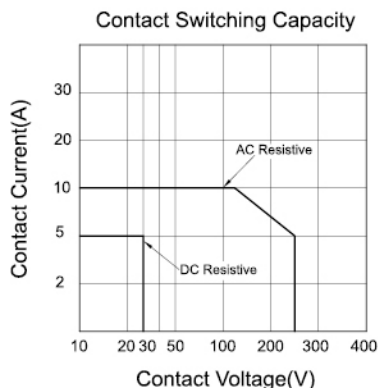
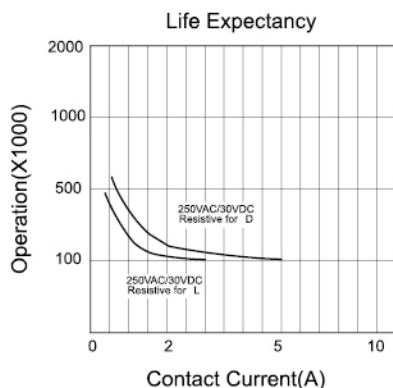
Insulation Resistance	100MΩMin at 500VDC
Dielectric Strength Between Open Contacts	1000VAC (for one minute)
Between Contacts and Coil	4000VAC (for one minute)
Operate Time	1H-D:10ms 1H-L: 15ms
Release Time	4ms
Temperature Range	-40°C to +85°C(No Freezing)
Shock Resistance	Operating Extremes: 10G Damage Limits: 100G
Vibration Resistance	10-55Hz, Double amplitude of 1.5mm
Max. Switching Frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr
Humidity	40-85%
Weight	Approx: 6g
Safety Standard	UL cUL TÜV CQC

■ Approved Standards

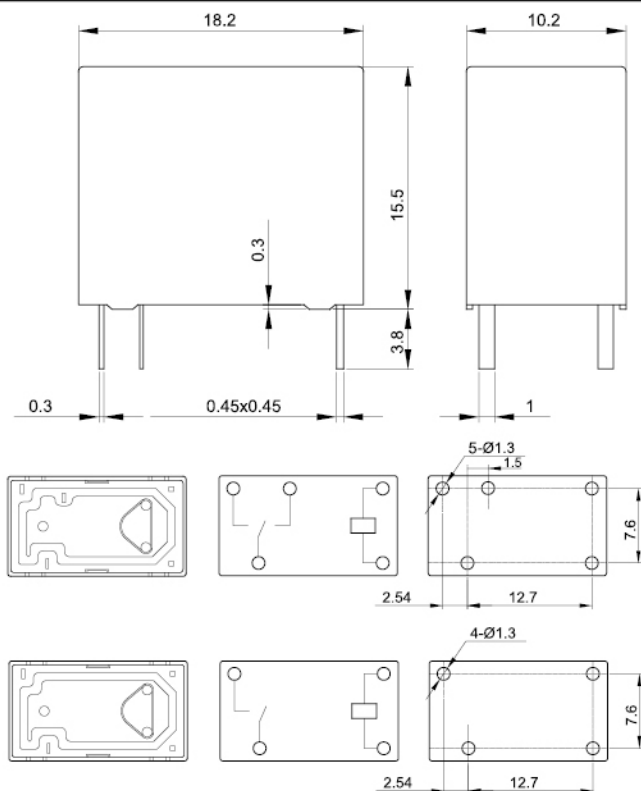
Model	Coil Rating	Safety Standard	Contact Rating
TRG1	3 to 24VDC	UL	10A 120VAC 5A 240VAC 3A 240VAC 3A 30VDC
		CQC	5A 240VAC
		TÜV	1H-D 5A 250VAC 10A 125VAC 5A 30VDC
			1H-L 3A 250VAC 1Z 3A 30VDC

■ Engineering Data





■ Overall and Mounting Dimensions



Remark:

- 1). In case the tolerance is not shown in outline dimension, the tolerance should be $\pm 0.2\text{mm}$ for outline dimension $\leq 1\text{mm}$; $\pm 0.3\text{mm}$ for outline dimension: $1\sim 5\text{mm}$ and $\pm 0.4\text{mm}$ for outline dimension $> 5\text{mm}$.
- 2). The tolerance without indication is always $\pm 0.1\text{mm}$ for the dimension of PCB layout.

Disclaimer:

These specifications are just for customers' reference and subject to change without notice.