



CQC 12002067707

cULUS E173485

R50116172

■ Features

- UL TV-5 rating relay
- 1 form A contact arrangement
- Applications include appliance, HAVC, CTV, Monitor, emergency lighting
- Conform to RoHS, ELV directive

■ Ordering Code

TRA4		D	—	12VDC	—	S	—	H / C
1	2	3	4	5	6			
1. Relay Model	2. Coil Power: D=0.54W, L=0.25W	3. Coil Nominal Voltage: 3, 5, 6, 9, 12, 24, 48VDC						
4. S: Sealed	5. Contact Form: H: Form A							
6. Case Type: Nil: Sealed Cover, C: Flux Tight Cover								

■ Coil Data (at 20°C)

Nominal Voltage(VDC)	3	5	6	9	12	24	48	
Coil Resistance($\Omega \pm 10\%$)	36	100	144	324	576	2304	9216	0.25W
Rated Current(mA)	83	50	42	28	21	10	5	
Max Operate Voltage(VDC)	2.25	3.75	4.5	6.75	9	18	36	
Min Release Voltage(VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	
Coil Resistance($\Omega \pm 10\%$)	17	46	67	150	270	1050	4250	
Rated Current(mA)	180	108	90	60	45	22.5	11.3	0.54W
Max Operate Voltage(VDC)	2.25	3.75	4.5	6.75	9	18	36	
Min Release Voltage(VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	
Max Applicable Voltage	130% of nominal voltage at 70°C, 170% of nominal voltage at 23°C							

■ Contact Data

Contact Form	1H
Contact Material	Silver Alloy
Load	Resistive Load(COS ϕ 1)
Contact Ratings	10A 250VAC/30VDC TV-5(5A@120VAC)
Minimum Load	100mA 5VDC
Max Switching Voltage	250VAC/110VDC
Max Switching Current	10A
Max Switching Power	2500VA/300W
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)

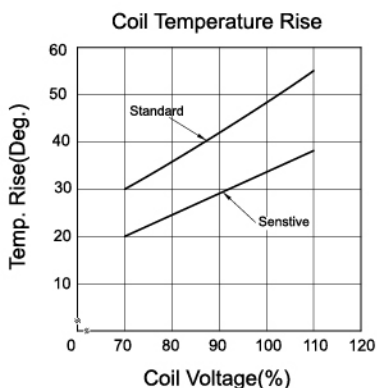
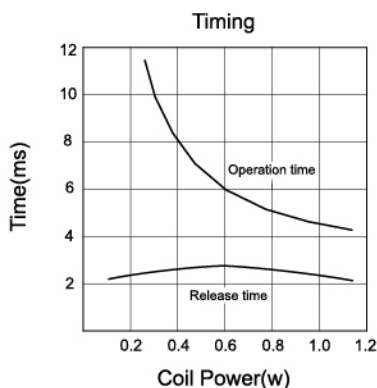
■ Characteristics Data

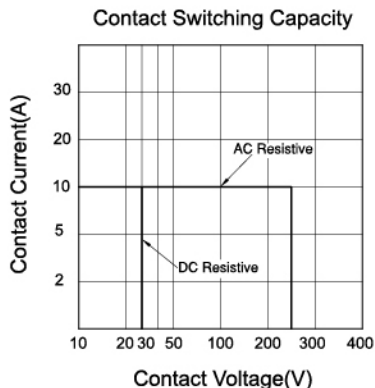
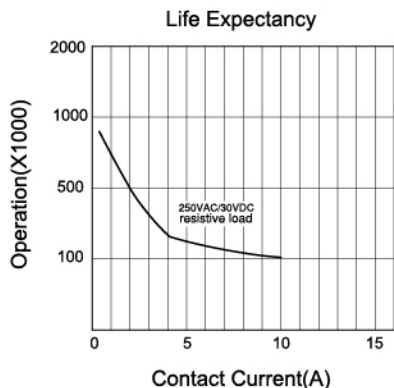
Insulation Resistance	100MΩMin at 500VDC
Dielectric Strength Between Open Contacts	900VAC (for one minute)
Between Contacts and Coil	4000VAC (for one minute)
Operate Time	15ms
Release Time	8ms
Temperature Range	-30°C to +70°C
Shock Resistance	Operating Extremes: 10G Damage Limits: 100G
Vibration Resistance	10-55Hz, 1.5mm
Max. Switching Frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr
Humidity	20-85%
Weight	Approx: 11g
Safety Standard	UL cUL TÜV CQC S

■ Approved Standards

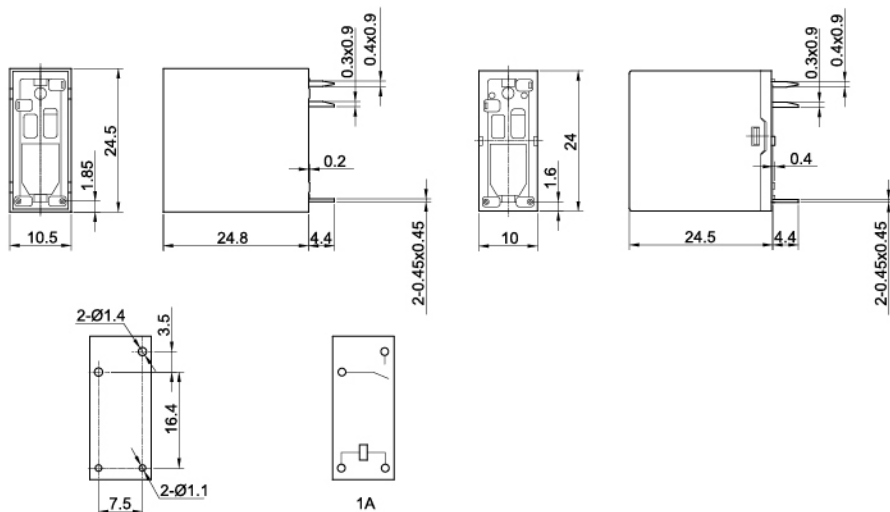
Model	Coil Rating	Safety Standard	Contact Rating
TRA4	3 to 48VDC	TÜV	10A 250VAC 10A 30VDC
		UL/cUL	10A 250VAC 10A 30VDC TV-5 5A 120VAC
		CQC	10A 250VAC
		S	5/40A 250VAC 3/100A 250VAC

■ Engineering Data





Overall and Mounting Dimensions



PCB Layout

Wiring Diagram

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: 1~5mm 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.