



CQC 10002043906

UL US E173485

R50116170

■ Features

- Creepage distance: 8.0mm Min
- Au-clad contact available
- Transparent sealed available
- Class B/F available
- Conform to RoHS, ELV directive

■ Ordering Code

TRA3		D	— 12VDC —			S	— 2Z (2)	
		1	2	3	4	5	6	
1. Relay Model	2. Coil Power: D=0.72W, L=0.54W, M=0.24W							
3. Coil Nominal Voltage: 3, 5, 6, 9, 12, 24, 48VDC					4. S: Sealed			
5. Contact Form: 2Z: Form 2C, 2H: Form 2A				6. Nil: Standard, (2): Transparent Cover				

■ Coil Data (at 20°C)

Nominal Voltage(VDC)	3	5	6	9	12	24	48	
Coil Resistance($\Omega \pm 10\%$)	38	104	150	338	600	2400	9600	0.24W
Rated Current(mA)	80	48	40	26.7	20	10	5	
Max Operate Voltage(VDC)	2.4	4	4.8	7.2	9.6	19.2	38.4	
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	0.54W
Rated Current(mA)	180	108	90	60	45	22.5	11.3	
Max Operate Voltage(VDC)	2.4	4	4.8	7.2	9.6	19.2	38.4	
Min Release Voltage(VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	
Coil Resistance($\Omega \pm 10\%$)	13	35	50	110	200	800	3200	0.72W
Rated Current(mA)	240	144	120	80	60	30	15	
Max Operate Voltage(VDC)	2.4	4	4.8	7.2	9.6	19.2	38.4	
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	2H/2Z	
Contact Material	Silver Alloy	
Load	Resistive Load(COS ϕ =1)	
Contact Ratings	5A 240VAC 5A 30VDC	
Minimum Load	100mA 5VDC	
Max Switching Voltage	250VAC/30VDC	
Max Switching Current	8A	
Max Switching Power	1250VA/240W	
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)	

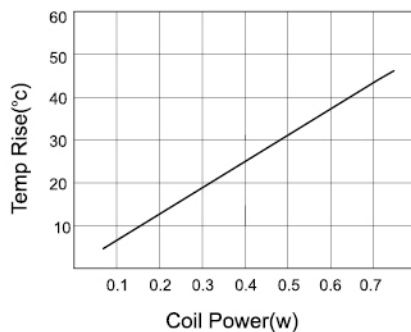
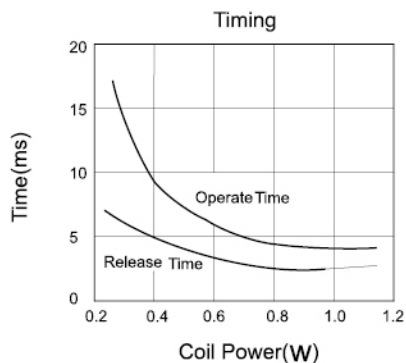
■ Characteristics Data

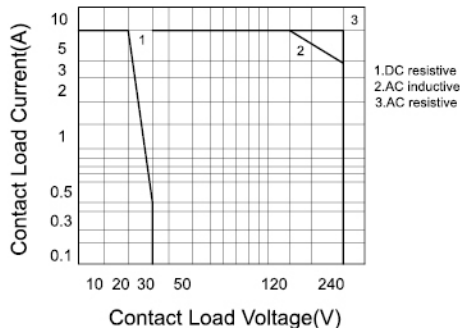
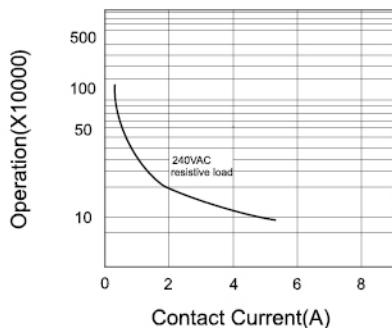
Insulation Resistance	100MΩMin at 500VDC
Dielectric Strength Between Open Contacts	1000VAC (for one minute)
Between Contacts and Coil	5000VAC (for one minute)
Operate Time	20ms
Release Time	10ms
Temperature Range	-40°C to +85°C
Shock Resistance	Operating Extremes: 10G Damage Limits: 100G
Vibration Resistance	10-55Hz, 1.5mm
Max. Switching Frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr
Humidity	40-85%
Weight	Approx: 14g
Safety Standard	UL cUL TÜV CQC

■ Approved Standards

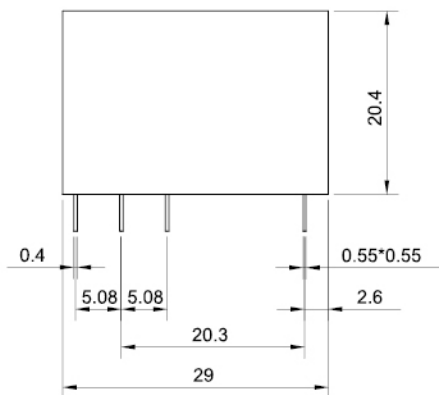
Model	Coil Rating	Coiling Rating	Contact Rating
TRA3	3 to 48VDC	TÜV	5A 240VAC 5A 30VDC
		UL/cUL	5A 240VAC 5A 30VDC
		CQC	5A 240VAC

■ Engineering Data

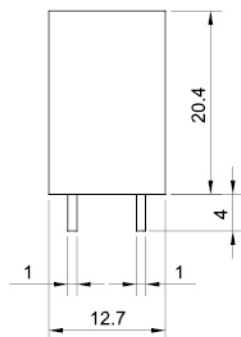
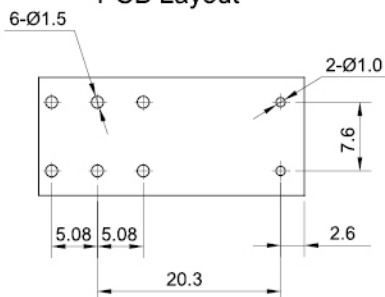




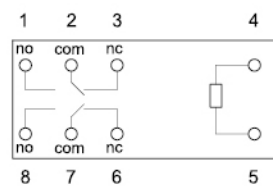
Overall and Mounting Dimensions



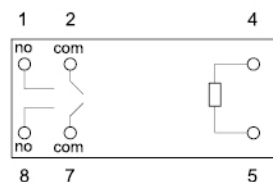
PCB Layout



Wiring Diagram



Form C



Form A

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.