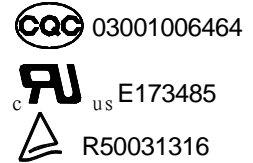


PCB
TRA1

- 10A switching capability
- SPST-NO&SPDT configuration
- Small footprint
- Sealed version available
- Transparent sealed available
- Class B/F available
- Conform to RoHS,ELV directive



29.5×13×20.6


ORDERING CODE

TRA1	D	—	12VDC	—	S	—	H	(2)
1	2	3	4	5	6			
1. Relay Model	2. Coil Power D=0.72W, L=0.54W	3. Coil Nominal Voltage 3,5,6,9,12,24,48VDC	4. S: Sealed Z: Form C H: Form A	5.	6. Nil: Standard Type 2: Transparent Cover			

COIL DATA at 20°C

Nominal Voltage (VDC)	3	5	6	9	12	24	48	
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	70	130%, 23			170%			

CONTACT DATA

Contact Form	1H/1Z
Contact Material	Silver Alloy
Load	Resistive load(COS Φ =1)
Contact Ratings	10A 240VAC 10A 30VDC
Minimum load	100mA 5VDC
Max Switching Voltage	250VAC/30VDC
Max Switching Current	12A
Max Switching Power	2500VA/300W
Contact Resistance	100m Ω Max at 6VDC 1A
Life Expectancy	Electrical : 100,000 Operations(at30Operations/minute)
	Mechanical : 10,000,000 Operations(at300Operations/minute)

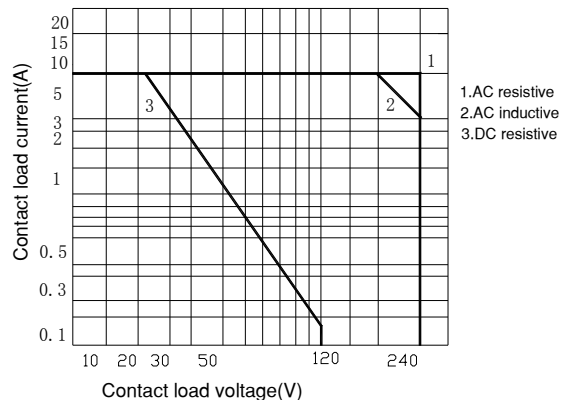
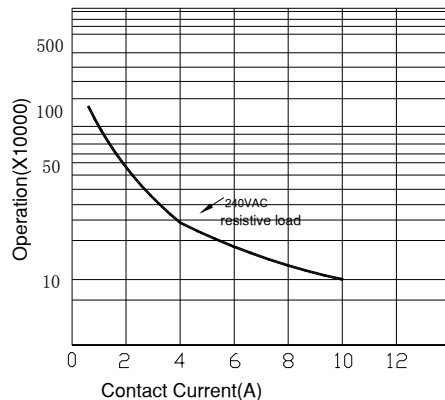
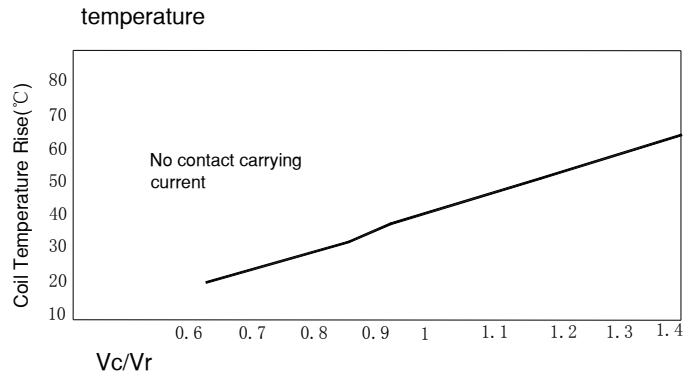
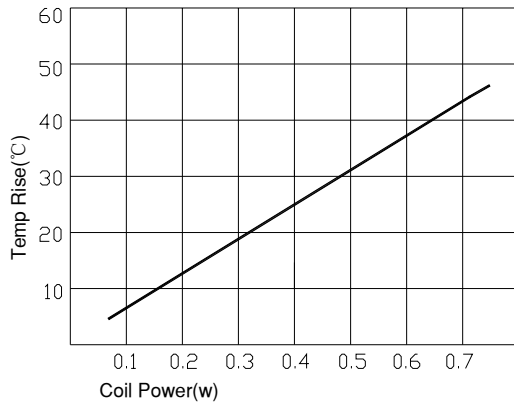
■ CHARACTERISTICS DATA

Insulation Resistance	100MΩ Min 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 +70°C
Shock Resistance	Operating Extremes : 10G 11ms
	Damage Limits : 100G 6ms
Vibration Resistance	10-55Hz, 1.5mm
Max. switching frequency	Mechanical: 18,000operations/hr
	Electrical: 1,800operations/hr
Humidity	40-85%
Weight	Approx 14g
Safety Standard	UL cUL TÜV CQC

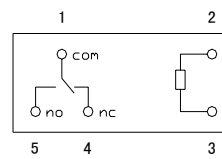
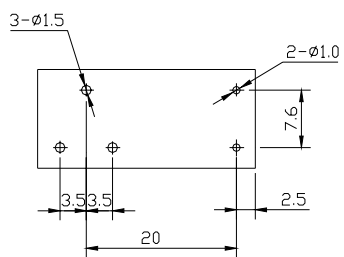
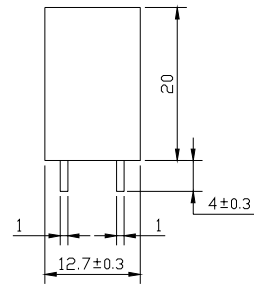
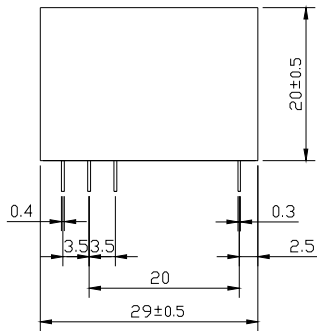
■ APPROVED STANDARDS

Model	Coiling rating	Safety Standard	Contact rating
TRA1	3 to 48VDC	TÜV	10A 240VAC 10A 30VDC
		UL/cUL	10A 240VAC 10A 30VDC
		CQC	10A 240VAC

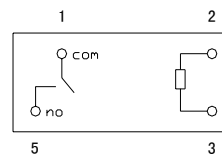
■ ENGINEERING DATA



■ OVERALL AND MOUNTING DIMENSIONS



Form C



Form A