

TRCD

● Sub-miniature dimensions: $23 \times 16.1 \times 10.2$ (L×W×H)

● High-sensitivity models available with low power consumption (200 mW)

● RoHS Compliant



CQC09002034392



E173485



R50195956

CONTACT DATA

Contact Arrangement	1H
Contact Material	Silver Alloy
Load	Resistive load ($\cos \Phi = 1$)
Contact Ratings	16A 250VAC (TUV,CQC) 10A 250VAC/24VDC 1/2HP 125VAC TV-5A @125VAC(LAMP) 10A 125VAC(Tungsten)
Min. Contact Load	100mA 5VDC
Max. Switching Voltage	250VAC/125VAC
Max. Switching Current	16A
Max. Switching Power	4000VA/480W
Contact Resistance	$\leq 100\text{m}\Omega$ (6VDC 1A)
Electrical Endurance	1×10^5 OPS(at 6 OPS/min)
Mechanical Endurance	1×10^7 OPS(at 300 OPS/min)

CHARACTERISTICS

Insulation Resistance		100M Ω Min. at 500VDC
Dielectric Strength	Between Open Contacts	700VAC (50/60Hz 1 min)
	Between Contacts and Coil	2500VAC (50/60Hz 1 min)
Operate Time		$\leq 15\text{ms}$
Release Time		$\leq 8\text{ms}$
Ambient Temperature		-40°C ~ +85°C (F: +105°C)
Shock Resistance	Functional	: 10G
	Destructive	: 100G
Vibration Resistance		10~55Hz, 1.5mm DA
Humidity		20~85%
Unit Weight		Approx. 8g

■ COIL DATA (at 23°C)

Rated Voltage (VDC)	3	5	6	9	12	18	24	48	0.45W
Coil Resistance ($\Omega \pm 10\%$)	20	56	80	180	320	1280	5120	20	
Rated Current (mA)	150	90	75	50	37.5	18.7	9.4	150	
Max. Operate Voltage (VDC)	2.25	3.75	4.5	6.75	9	18	36	2.25	
Min. Release Voltage (VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	0.15	
Max. Voltage	3.9	6.5	7.8	11.7	15.6	23.4	31.2	62.4	
Rated Voltage (VDC)	3	5	6	9	12	18	24	48	0.36W
Coil Resistance ($\Omega \pm 10\%$)	25	69	100	225	400	1600	6400	25	
Rated Current (mA)	120	72	60	40	30	15	7.5	120	
Max. Operate Voltage (VDC)	2.25	3.75	4.5	6.75	9	18	36	2.25	
Min. Release Voltage (VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	0.15	
Max. Voltage	3.9	6.5	7.8	11.7	15.6	23.4	31.2	62.4	
Rated Voltage (VDC)	3	5	6	9	12	18	24	48	0.2W
Coil Resistance ($\Omega \pm 10\%$)	45	125	180	405	720	2880	11520	45	
Rated Current (mA)	66.7	40	33.3	22.2	16.7	8.3	4.2	66.7	
Max. Operate Voltage (VDC)	2.25	3.75	4.5	6.75	9	18	36	2.25	
Min. Release Voltage (VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	0.15	
Max. Voltage	3.9	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
TRCD	3 ~ 48VDC	TÜV	16A 250VAC 10A 250VAC 10A 24VDC
		UL/cUL	10A 250VAC 1/2HP 125VAC TV-5A @125VAC (LAMP) 10A 125VAC(Tungsten) 15A 125VAC 1HP 277VAC
		CQC	10A 250VAC/ 16A250VAC

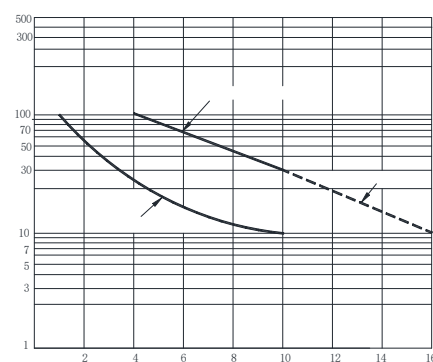
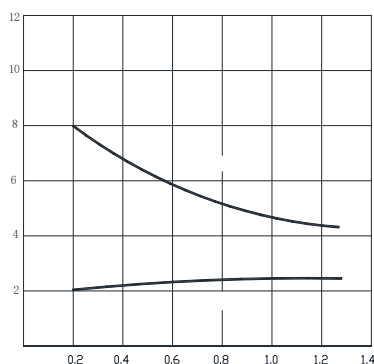
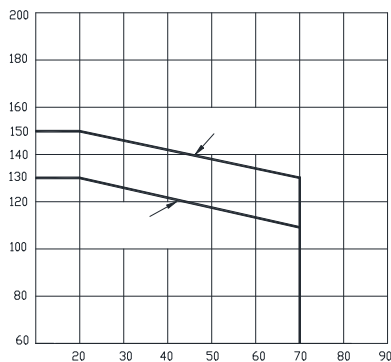
■ ORDERING INFORMATION

Type	TRCD	L	-12VDC	-S	-H	/XX
Power	L: 0.2W D: 0.36W N: 0.45W					
Coil Voltage	03, 05, 06, 09, 12, 18, 24, 48VDC					
Construction	S: Plastic sealed					
Contact Arrangement	H: 1 Form A					
Special Code	XX: Customer Special Requirement IT: Compliant with IEC 60335-1 (GWT) Nil: Standard Type					

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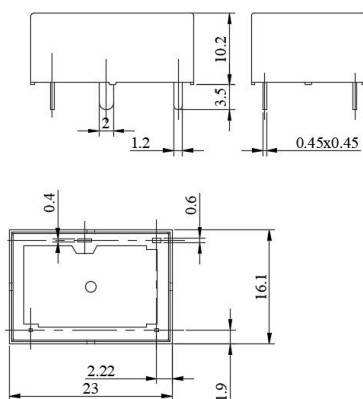
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■ CHARACTERISTIC CURVES

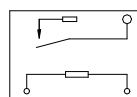


■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

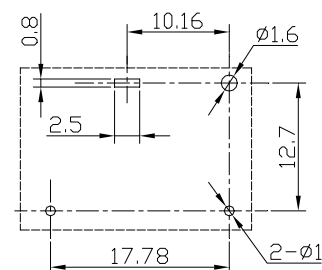
Outline dimensions



Wiring Diagram



PC Board Layouts(Bottom View)



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.