


TC90 (T90)

 17002167722

32.5 × 27.6 × 20

Features
<ul style="list-style-type: none"> ▪ Small size, light weight. ▪ Low coil power consumption, heavy contact load. ▪ Strong anti-shock and anti-vibration, high reliability, long life. ▪ PC board mounting. ▪ 1.1W versions with contact gap to 2.0mm. ▪ Suitable for automobile, machine, electronic equipment, air conditioner and household appliances applications.

Ordering Information			
<u>TC90</u>	<u>12D</u>	<u>S</u>	<u>C</u>
1	2	3	4
1 Part number: TC90(T90) 3 Enclosure S: Covered		2 Coil rated voltage(V) :DC:3,5,6,9,12,15,18,24,48,110 4 Contact form: A:Normally open B:Normally closed C:Conversion	

Contact Data	
Contact Arrangement	1A(1H) (SPSTNO) 1B(1D)(SPSTNC) 1C(1Z)(SPDT(B-M))
Contact Rating (resistive)	NO:30A/240VAC,14VDC; NC:20A/240VAC;30A/14VDC NO:40A/240VAC,30VDC; NC:30A/240VAC,30VDC NO:30A/277VAC;NC:20A/277VAC Motor load NO:2HP 250VAC NC:1.5HP 250VAC Lamp load TV-5 5A/280VAC(Ballast)
Max. Switching Power	1200W 7200VA (10000VA)
Max. Switching Voltage	110VDC 300VAC Max. Switching Current:40A
Contact Resistance or Voltage drop	≤ 30mΩ
Operation life	Electrical 10 ⁵
	Mechanical 10 ⁷

Coil voltage VDC		Coil resistance Ω ± 10%	Pick up voltage VDC(max) (75%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
Rated	Max.						
3	3.9	10	2.25	0.3	0.9	≤15	≤10
5	6.5	28	3.75	0.5			
6	7.8	40	4.50	0.6			
9	11.7	90	6.75	0.9			
12	15.6	160	9.00	1.2			
15	19.5	250	10.25	1.5			
18	23.4	360	13.50	1.8			
24	31.2	640	18.00	2.4			
48	62.4	2560	36.00	4.8			
110	143	13445	82.50	11.0			

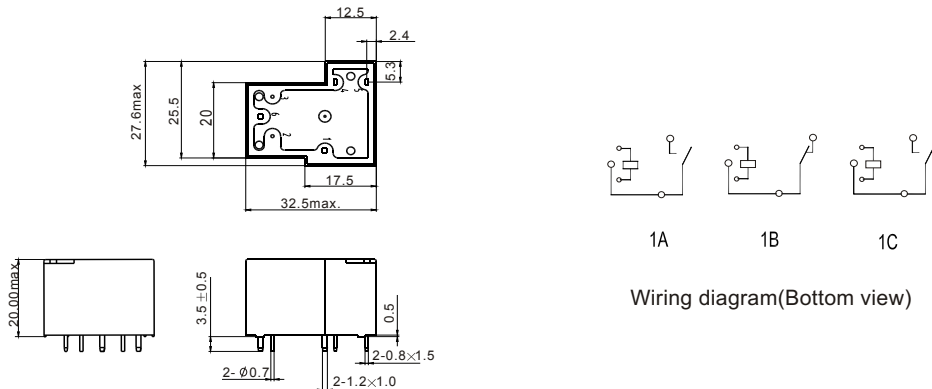
CAUTION: 1.The use of any coil voltage greater than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

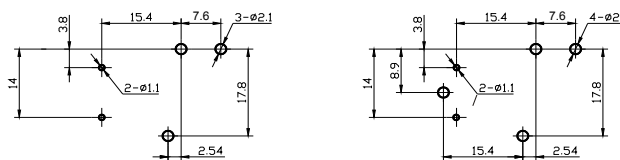
Insulation Resistance	100M min (at 500VDC)
Dielectric Strength Between contacts Between contact and coil	50Hz 1500V 50Hz 2500V 4000V
Shock resistance	strength: 300m/s^2 11ms
	stability: 10m/s^2 11ms
Vibration resistance	10Hz~11 Hz double amplitude 1.5mm
Terminals strength	10N
Solderability	260 °C ± 5 °C 5s ± 0.5s
Ambient Temperature	-55°C ~100°C -55 °C ~125 °C
Relative Humidity	85% (40)°C
Mass	30g

Dimensions

unit: mm



Dimensions



Mounting (Bottom view)

Reference Data

