

TC78 (T78)

15.7 × 12.3 × 14.0

Features

- Small size, light weight.
- Low coil consumption.
- PC board mounting.
- Suitable for household electrical appliances, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.

Ordering Information

TC78 S 1 12 C
1 2 3 4 5

1 Part number: TC78(T78)

3 Number of contact groups: 1: One group

5 Contact form: A: Normally open B: Normally closed
C: Conversion

2 Enclosure: S: Sealed type NIL: Dust cover

4 Coil rated voltage(V): DC:3,6,9,12,24,48

Contact Data

Contact Arrangement	1A(1H) (SPSTNO) 1B(1D)(SPSTNC) 1C(1Z)(SPDT(B-M))
Contact Rating (resistive)	NO:20A/14VDC 10A/120VAC,5A/250VAC IA:30A/14VDC NC:15A/14VDC,10A/120VAC,5A/250VAC IU:2X10A/14VDC
	Motor load : 1/2HP 125VAC
	Lamp load : TV-5
Max. Switching Power	420W 1250VA
Max. Switching Voltage	42VDC 380VAC Max. Switching Current:30A
Contact Resistance or Voltage drop	≤100mΩ
Operation life	Electrical 10 ⁵
	Mechanical 10 ⁷

Coil Parameter

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	25	2.25	0.3	0.36	≤10	≤5
6	7.8	100	4.50	0.6			
9	11.7	225	6.75	0.9			
12	15.6	400	9.00	1.2			
24	31.2	1600	18.0	2.4			
48	62.4	6400	36.0	4.8			
3	3.9	15	2.25	0.3	0.6	≤10	≤5
6	7.8	60	4.50	0.6			
9	11.7	135	6.75	0.9			
12	15.6	240	9.00	1.2			
24	31.2	960	18.0	2.4			
48	62.4	3840	36.0	4.8			

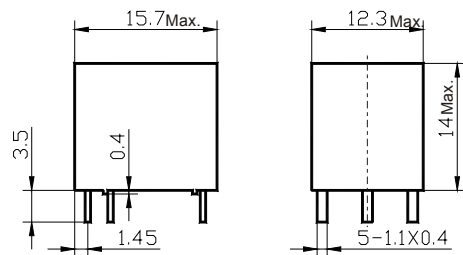
CAUTION: 1.The use of any coil voltage greater than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

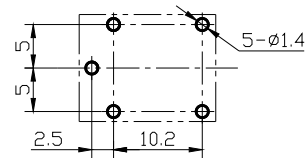
Insulation Resistance	100M min (at 500VDC)
Dielectric Strength Between contacts Between contact and coil	50Hz 500V 50Hz 500V
Shock resistance	strength: 100m/s^2 11ms
	stability: 10m/s^2 11ms
Vibration resistance	10Hz~55Hz double amplitude 1.5mm
Terminals strength	10N
Solderability	$260^\circ\text{C} \pm 5^\circ\text{C}$ $3\text{s} \pm 0.5\text{s}$
Ambient Temperature	$-40^\circ\text{C} \sim 85^\circ\text{C}$
Relative Humidity	85% (20) $^\circ\text{C}$
Mass	7g

Dimensions

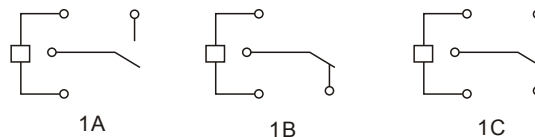
unit: mm



Dimensions



Mounting (Bottom view)



Wiring diagram (Bottom view)

Reference Data

