

TC14F (14F)

29.0 × 12.6 × 20.6

Features

- Heavy load, suitable for heavy power reverse.
- Small size, suitable for high-density mounting.
- Up to 5000VAC dielectric strength.
- Suitable for remote control TV set, copy machine, sales machine and air conditioner etc.

Ordering Information

TC14F **S** **2** **12** **C**
1 2 3 4 5

1.Part number: TC14F(14F)

3.Number of contact groups: 1:One group 2:Two groups

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:3,5,6,9,12,24,48

Contact Data

Contact Arrangement	1A(1H) (SPSTNO) 1B(1D)(SPSTNC) 1C(1Z)(SPDT(B-M))
	2A(2H) SPSTNO 2B(2D)(SPSTNC) 2C(2Z)(SPDT(B-M))
Contact Rating (resistive)	1A:16A,20A/250VAC,30VDC; 1C:10A,16A,20A/250VAC,30VDC;10A14VDC 2A,2C:5A,8A/220VAC,30VDC
	Motor load:1HP 250VAC ; 1/2HP 125VAC
	Lamp load:TV-5
Max. Switching Power	600W 5000VA
Max. Switching Voltage	110VDC 380VAC Switching Current:20A
Contact Resistance or Voltage drop	≤ 50m Ω
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	17	2.25	0.3	0.53	≤15	≤10
5	6.5	47	3.75	0.5			
6	7.8	68	4.50	0.6			
9	11.7	153	6.75	0.9			
12	15.6	275	9.00	1.2			
24	31.2	1100	18.0	2.4			
48	62.4	4357	36.0	4.8			

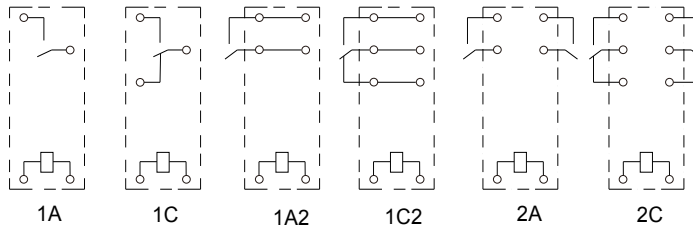
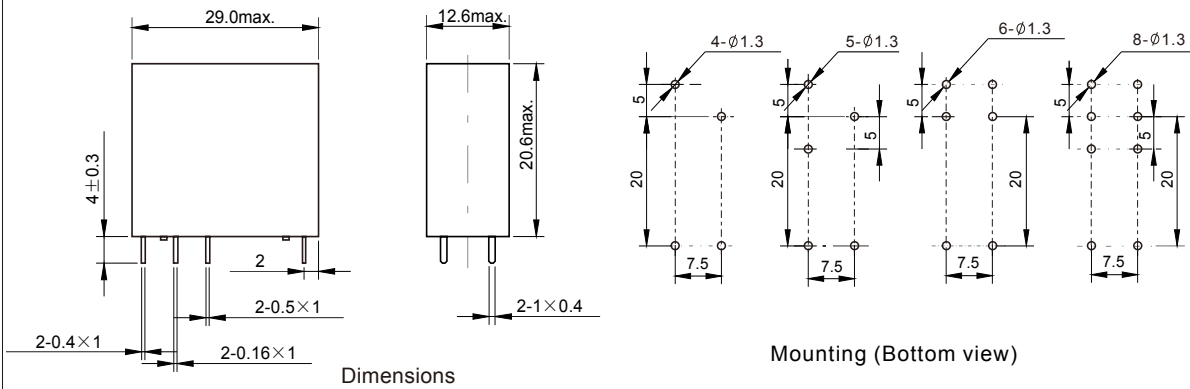
CAUTION: 1.The use of any coil voltage greater than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

Insulation Resistance	1000M min (at 500VDC)
Dielectric Strength Between contacts Between contact and coil	50Hz 1000V 50Hz 5000V
Shock resistance	strength: 100m/s^2 11ms
	stability: 10m/s^2 11ms
Vibration resistance	10Hz~40Hz double amplitude 1.5mm
Terminals strength	10N
Solderability	$235\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ $3\text{s} \pm 0.5\text{s}$
Ambient Temperature	$-40\text{ }^{\circ}\text{C} \sim 70\text{ }^{\circ}\text{C}$
Relative Humidity	85% (40) $^{\circ}\text{C}$
Mass	13g

Dimensions

unit: mm



Wiring diagram(Bottomview)

Reference Data

