



# Relay



## ISO9001、ISO14001 Certification Enterprises

### Main Feature

1. Small size (31.9x27.5x19.5 in mm) produces a switching capacity up to 40A for high density P.C.Board mounting technique.
2. The contact form construction is 1A/1B/1C
3. The Surge Resistance of T90 series is 10,000V
4. Sealing Construction (Free from dust and solder flux): SCH-T90: Plastic Sealed Type.
5. The selection of plastic insulation material is designed for high temperature and provides better chemical solution performance.
6. RoHS Compliant.

### Application

Air Conditioning, Fridge, Washing Machine, etc Household Appliances

### Contact Rating

- Nominal Load(Resistive Load  $\cos \phi = 1$ )  
Contact Capacity  
SCH-T90-1C..... 30A/20A at 250VAC  
SCH-T90-1A/1B..... 40A at 250VAC
- Max. Allowable Current  
SCH-T90-1C..... 30A  
SCH-T90-1A/1B..... 40A
- Max. Allowable Voltage  
SCH-T90-1A/1B/1C..... AC250V
- Max. Allowable Power Force  
SCH-T90-1C..... 5,000VA  
SCH-T90-1A/1B..... 9,200VA
- Contact Material..... Ag Alloy
- Contact Form..... SPDT&SPST

### Performance (at Initial Value)

- Contact Resistance.....  $\leq 100m \Omega$  at 6VDC/1A
- Operate Time..... ms. Max
- Release Time..... ms. Max
- Dielectric Strength:  
Between Coil & Contact..... 4,000VAC at 50/60 Hz  
for one minute  
Between Contacts..... 1,500VAC at 50/60 Hz  
for one minute
- Surge Resistance..... 10,000V (between Coil & Contact 1.2x50  $\mu$ s)
- Insulation Resistance..... 1,000 Mega  $\Omega$  Min. at 500VDC

- Max. On/Off Switching:  
Electrical..... 30 Ops per minute  
Mechanical..... 300 Ops per minute
- Temperature Range..... 40~105°C
- Humidity Range..... 5%~85% RH
- Coil Temperature Rise..... 35°C Maximum
- Vibration:  
Endurance..... 10 to 55 Hz dual  
amplitude width 1.5mm  
Error Operation..... 10 to 55 Hz dual  
amplitude width 1.5mm
- Shock:  
Endurance..... 981m/s<sup>2</sup> Min  
Error Operation..... 98.1m/s<sup>2</sup> Min
- Life Expectancy:  
Electrical..... 5 x 10<sup>4</sup> Operations at  
Rated Resistive  
load  
Mechanical..... 10<sup>7</sup> Operations at  
No load condition
- Weight..... about 23g

### Safety Standard & Its File Number

- UL..... E476814
- TUV..... R50319391
- CQC..... CQC15002132852



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## Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 8\%$ )	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
SCH-T90	5	178.6	28	Abt. 0.9	75% Maximum	10% Minimum	130%
	6	150	40				
	9	100	90				
	12	75	160				
	24	37.5	640				
	48	18.8	2560				

## Ordering Information

SCH - T90 - 1A - 12 - S - T - T

Temperature:  
Blank:85 °C T:105 °C

Dielectric Strength:  
Blank:2000VAC, T:4000VAC

Coil Type: Blan:0.9W Standard DC Coil  
Seal type :S

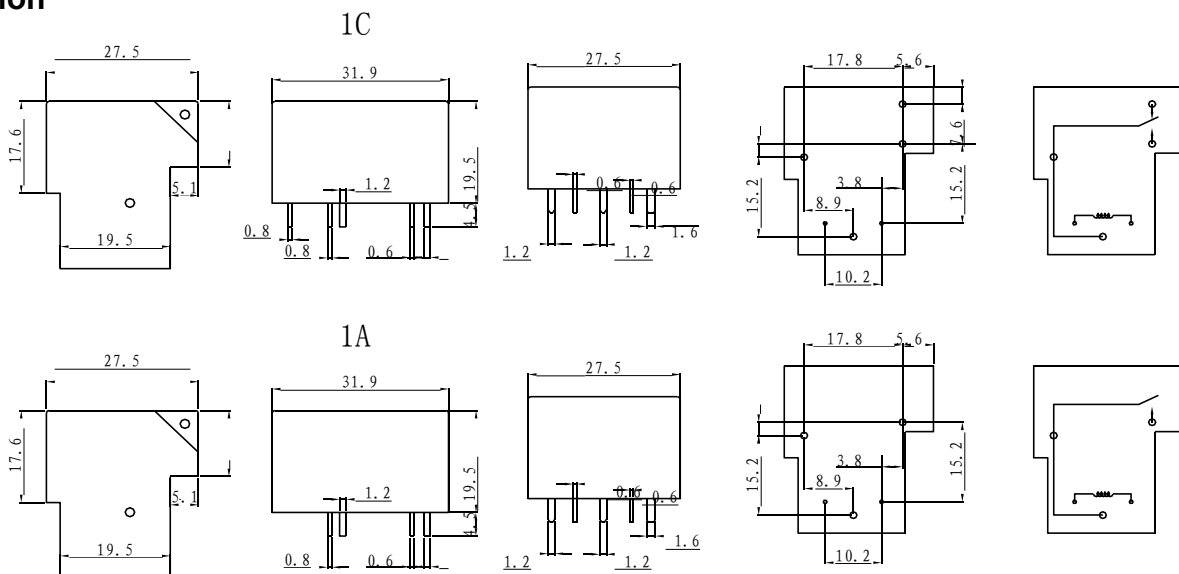
Coil Voltage: e:5:5V,6:6V,9:9V12:12V,24:24V ,48:48V

Number of Pole: 1A:One Group NO, 1B:One Group NC,1C:One Group NC/NO

Model:T90-40A

Generic Terms: SCH

## Dimension



(Dimension Tolerance) : <1mm:  $\pm 0.2$ mm  
1--5mm:  $\pm 0.3$ mm  
>5mm:  $\pm 0.5$ mm