



# Relay



## ISO9001、ISO14001 Certification Enterprises

### Main Feature

1. Small size (29.3x12.8x20.4 in mm) produces a switching capacity up to 10A for high density P.C.Board mounting technique.
2. The contact form construction is 1A/1B/1C
3. The Surge Resistance of 14F series is 10,000V
4. Sealing Construction (Free from dust and solder flux):  
SCH-14F: 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-14F-1A/1C..... 10A at 250VAC  
10A at 30VDC
- Max. Allowable Current  
SCH-14F-1A/1C..... 10A
- Max. Allowable Voltage  
SCH-14F-1A/1C..... AC250V DC30V
- Max. Allowable Power Force  
SCH-14F-1A/1C..... 2,500VA 300W
- 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..... 5,000VAC at 50/60 Hz  
for one minute  
Between Contacts..... 1,000VAC 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..... 40~85 $^{\circ}C$
- Humidity Range..... 5%~85% RH
- Coil Temperature Rise..... 35 $^{\circ}C$  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 $^2$  Min  
Error Operation..... 98.1m/s $^2$  Min
- Life Expectancy:  
Electrical..... 10 $^5$  Operations at  
Rated Resistive  
load  
Mechanical..... 10 $^7$  Operations at  
No load condition
- Weight..... about 13g

### Safety Standard & Its File Number

- UL..... Pending
- TUV..... R50360206
- CQC..... Pending



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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-14F	3	176.5	17	Abt. 0.54	75% Maximum	10% Minimum	130%
	5	108.7	46				
	6	89.6	67				
	9	60	150				
	12	44.4	270				
	24	21.8	1100				
	48	11.2	4270				

## Ordering Information

SCH - 14F - 1C 12VDC - L - S

Seal type: S

Coil Type: Blank :L:0.54W DC Coil

Coil Voltage:3:3V,5:5V,6:6V,9:9V12:12V,24:24V,48:48VDC

Number of Pole:

2A:One Group NO, 1B:One Group NC,1C:One Group NC/NO

Model: 14F

Generic Terms: SCH

## Dimension

