



Relay

ISO9001、ISO14001 Certification Enterprises



Main Feature

1. Small size (29x29x26.5in mm) produces a switching capacity up to 80A for high density quick Connect Terminal and P.C.Board mounting technique.
2. The contact form construction is 1A/1B/1C
3. The Surge Resistance of 4142 series is 10,000V
4. Sealing Construction (Free from dust and solder flux):
SCH-4142: Plastic duct cover.
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-4142-1C..... 50A at 14VDC
SCH-4142-1A/1B 80A at 14VDC
- Max. Allowable Current
SCH-4142-1C..... 50A
SCH-4142-1A/1B 80A
- Max. Allowable Voltage
SCH-4142-1A/1B/1C DC28V
- Max. Allowable Power Force
SCH-4142-1C 420W
SCH-4142-1A/1B..... 560W
- 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 Timems. Max
- Dielectric Strength:
Between Coil & Contact.....500VAC at 50/60 Hz
for one minute
Between Contacts.....500VAC at 50/60 Hz
for one minute
- Surge Resistance 10,000V (between Coil
& Contact 1.2x50 μs)

- Insulation Resistance 1,000 Mega Ω Min. at
500VDC
- Max. On/Off Switching:
Electrical..... 30 Ops per minute
Mechanical..... 300 Ops per minute
- Temperature Range - 40~125 $^{\circ}C$
- Humidity Range..... 45~85% 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/s² Min
Error Operation..... 98.1m/s² Min
- Life Expectancy:
Electrical..... 10⁵ Operations at
Rated Resistive
load
Mechanical10⁷ Operations at
No load condition
- Weight about 40g

Safety Standard & Its File Number

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-4142	5	360	14	Abt. 1.8	75% Maximum	10% Minimum	130%
	6	300	20				
	9	200	45				
	12	150	80				
	24	75	320				

Ordering Information

SCH - 4142 - 1C - 12 - M - P - S

Seal type: S

Receptacl type : Null: PCB type p: Insertion type

Coil Type: **Blan**:1.6W Standard DC Coil
Version type : Null: NO Bracket M: Plastic Bracket T: Metal Bracket

Coil Voltage: 5:5V,6:6V,9:9V,12:12V,24:24V

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

Model:4142

Generic Terms: SCH

Dimension

