

INDUSTRIAL RELAYS

The SC series is a miniature industrial relay with a 3 amp capacity
This WPI industrial relay has high sensitivity in a small package.

UL & CUL File #E223388

FEATURES

1. 3 Amps super miniature relay.
2. 1 Form A (SPST) contact.
3. 1 Form C (SPDT) contact.
4. High sensitivity in small package.
5. Washable type.

ORDERING INFORMATION

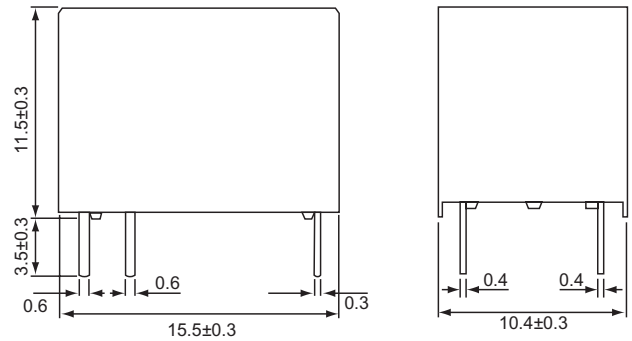
SC 1C - 12 D S L P
(1) (2) (3) (4) (5) (6) (7)

- | | |
|--|---|
| <p>(1) Basic Designation
SC = SC Series</p> <p>(2) Contact Arrangement
1C = 1 Form C (SPDT)
1A = 1 Form A (SPST)</p> <p>(3) Coil Voltage
3~24V</p> <p>(4) Coil Sensitivity
L = 0.2W
D = 0.36W
Nil = 0.4W</p> <p>(5) Enclosure
Nil = Unsealed type
S = Sealed type</p> | <p>(6) Terminal arrangement
Nil = Standard Type
L = Coil on one side</p> <p>(7) RoHS Compliance
P = RoHS
Nil = Standard</p> |
|--|---|

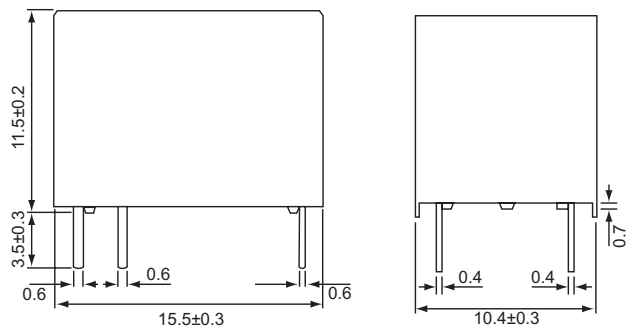
DIMENSIONS

Unit: mm

Standard Type



L Type



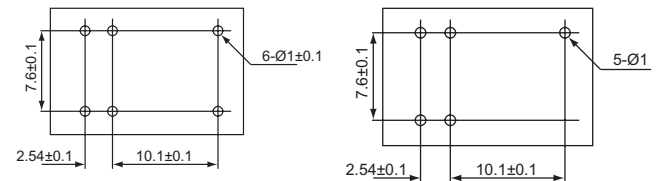
PCB LAYOUT

(bottom view)

Unit: mm

Standard Type

L Type



SCHEMATICS

(bottom view)

Standard Type

L Type



COIL RATINGS (AT 20°C)

Coil Type	Coil Nominal Voltage(V)	Coil Resistance Ω ($\pm 10\%$)	Pick-up Voltage (V) $\leq$	Drop-Out Voltage (V) $\geq$	Nominal Operating Power (W)
D	3	25	2.25	0.15	0.36
	5	70	3.75	0.25	
	6	100	4.50	0.30	
	9	220	6.75	0.45	
	12	400	9.00	0.60	
	24	1,600	18.00	1.20	
L	3	45	2.25	0.15	0.20
	5	125	3.75	0.25	
	6	180	4.50	0.30	
	9	400	6.75	0.45	
	12	720	9.00	0.60	
	24	2,880	18.99	1.20	
Nil	3	20	2.25	0.15	0.45
	5	56	3.75	0.25	
	6	80	4.50	0.30	
	9	180	6.75	0.45	
	12	320	9.00	0.60	
	24	1,280	18.00	1.20	

* Max continuous Voltage at 20°C: 130% of Coil Nominal Voltage.

CONTACT RATINGS

Contact Arrangement	1 Form C (SPDT) / 1 Form A (SPST)
Max. Switching Power	360VA 72W
Max. Switching Voltage	120VAC 60VDC
Max. Switching Current	3A
Contact Resistance	50m Ω
Rating Load	3A / 120VAC 1A / 120VAC 3A / 24VDC
Contact Material	silver alloy

CHARACTERISTICS

Electrical Life	1 x 10 ⁵
Mechanical Life	1 x 10 ⁷
Initial Insulation Resistance	Min. 100M Ω 500VDC
Contact Resistance (Initial)	50m Ω
Operate Time	≤ 10 ms Max
Release Time	≤ 4 ms Max
Initial Breakdown Voltage	50/60Hz 500VAC 1 min. (between open contacts) 50/60Hz 500VAC 1 min. (between coil & contact)
Vibration Resistance	Functional: 10 to 55Hz at double Amplitude of 1.5mm Destructive: 10 to 55Hz at double Amplitude of 1.0mm
Shock Resistance	Functional: Min. 10G Destructive: Min. 100G
Ambient Temperature	-20°C ~ +70°C
Unit Weight	Approx. 3g

REFERENCE DATA

