



**INDUSTRIAL RELAYS**

UL & CUL File #E223388

**FEATURES**

- Microminiature relay.
- High sensitivity: 200mW.
- High reliability gilt contact.
- Sealed type construction.

**TYPICAL APPLICATIONS**

Telecommunications Equipment, Home Appliances, Office Equipment, Audio Equipment, etc.

**ORDERING INFORMATION**

**SC -S -1 12 D -F -XX**

(1) (2) (3) (4) (5) (6) (7)

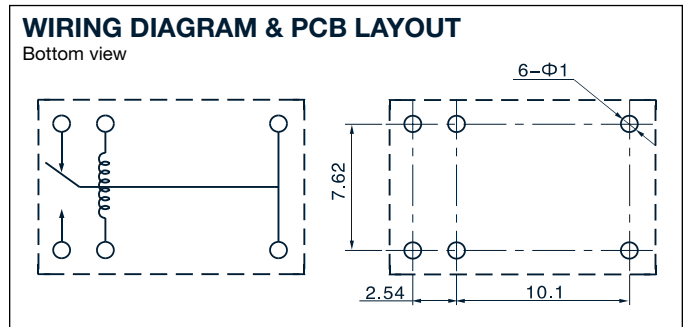
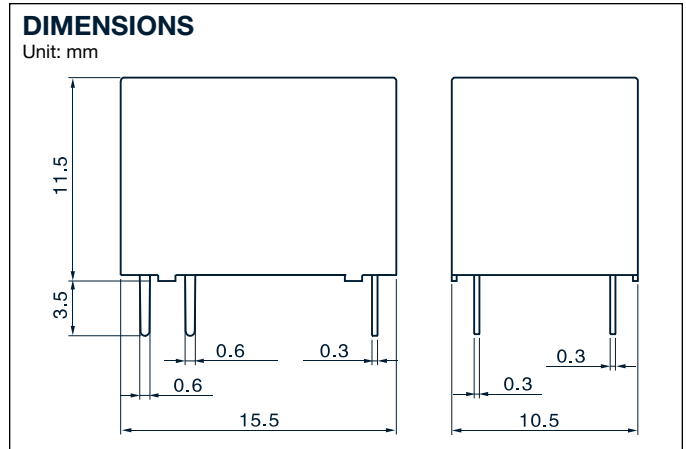
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|---|---|
| <p>(1) <b>Type Designation</b><br/>SC = SC Series</p> <p>(2) <b>Protective Construction</b><br/>S = Flux proofed<br/>SH = Sealed type washable</p> <p>(3) <b>Number of Poles</b><br/>1 = 1 pole</p> <p>(4) <b>Coil Voltage (VDC)</b><br/>03, 05, 06, 09, 12, 24</p> | <p>(5) <b>Coil Power</b><br/>Nil = 0.45W<br/>D = 0.36W<br/>L = 0.20W</p> <p>(6) <b>Insulation System</b><br/>Nil = Standard<br/>B = Class B <sup>(1)</sup><br/>F = Class F <sup>(2)</sup></p> <p>(7) <b>Special Parameter</b><br/>Nil = Standard type<br/><b>Letter or Number</b> = Special Requirement</p> |
|---|---|

**Note 1:** Heat resistivity = -40°C to +130°C.

**Note 2:** Heat resistivity = -40°C to +155°C.

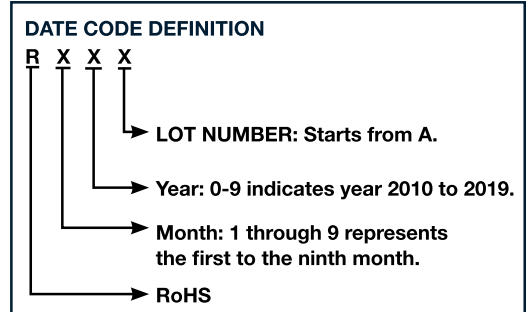
**SAFETY APPROVAL RATINGS**

Approval	UL/CUL
File Number	E223388
SC	3A 120VAC
	3A 24VDC
	1A 120VAC



Unless otherwise specified:  
If dimension < 1mm, tolerance: ± 0.2mm;  
If dimension 1~5mm, tolerance: ± 0.3mm;  
If dimension > 5mm, tolerance: ± 0.4mm.

Note: 1. Extended terminal dimension is dimension before soldering.  
2. Tolerance of P.C.B. layout: ± 0.1mm.





**CHARACTERISTIC DATA**

<b>Contact Material</b>	Silver Alloy	
<b>Initial contact resistance (@ 6VDC 1A)</b>	100mΩ Max.	
<b>Operate time (@ nominal voltage)</b>	<b>SC-D:</b> 8msec. Max.	<b>SC-L:</b> 10msec. Max.
<b>Release Time (@ nominal voltage)</b>	4msec. Max.	
<b>Initial insulation resistance</b>	100M Ω Min. (DC500V)	
<b>Initial dielectric strength</b>	Between open contacts: AC500V, 50/60Hz 1 Min.	
	Between coil and contact: AC750V, 50/60Hz 1Min.	
<b>Vibration Resistance</b>	<b>Functional</b>	10 ~ 55Hz @ double amplitude of 1.5mm
	<b>Destructive</b>	10 ~ 55Hz @ double amplitude of 1.5mm
<b>Shock Resistance</b>	<b>Functional</b>	10G Min.
	<b>Destructive</b>	50G Min.
<b>Endurance (operations)</b>	<b>Mechanical (@10,800 ops./h)</b>	10,000,000
	<b>Electrical (@1,800 ops./h)</b>	100,000
<b>Ambient Temperature</b>	-40°C to +105°C (no condensation)	
<b>Unit Weight</b>	Approximately 3.7g	

**CONTACT CAPACITY**

Model	Nominal Switching Capacity (res. load)	Max. Switching Current	Max. Switching Voltage	Max. Switching Power
SC	3A 120VAC	3A	125VAC	360VA

**COIL DATA (AT 20°C)**

Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ± 10% (Ω)	Max. Allowable Voltage	Pick-up Voltage (Max.)	Drop-Out Voltage (VDC)	Nominal Operating Power
3	120.00	25	130% of Nominal Voltage	75% of Nominal Voltage	5% of Nominal Voltage	Approx. 0.36W
5	71.43	70				
6	60.00	100				
9	40.00	225				
12	30.00	400				
24	15.00	1600				

**COIL DATA (AT 20°C)**

Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ± 10% (Ω)	Max. Allowable Voltage	Pick-up Voltage (Max.)	Drop-Out Voltage (VDC)	Nominal Operating Power
3	66.67	45	130% of Nominal Voltage	75% of Nominal Voltage	5% of Nominal Voltage	Approx. 0.20W
5	40.00	125				
6	33.33	180				
9	22.22	405				
12	16.67	720				
24	8.33	2880				
3	150.00	20				Approx. 0.45W
5	90.00	55				
6	75.00	80				
9	50.00	180				
12	37.50	320				
24	18.75	1280				

**CHARACTERISTIC CURVES**

