



INDUSTRIAL RELAYS

UL & CUL File #E223388

FEATURES

- Designed for thermostat, modem, computer peripherals, video recorder and security applications.
- High sensitive: 150mW.

TYPICAL APPLICATIONS

Automation, Modem, Computer Peripherals, Telecommunication Equipment

ORDERING INFORMATION

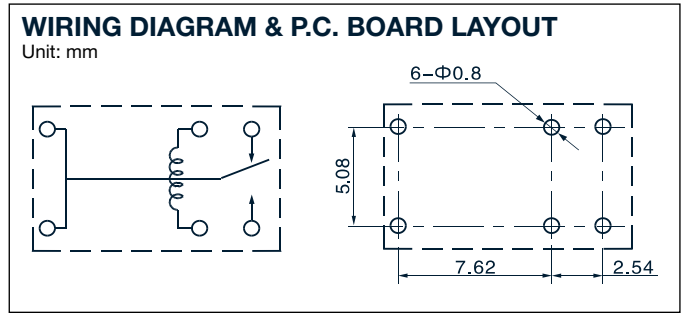
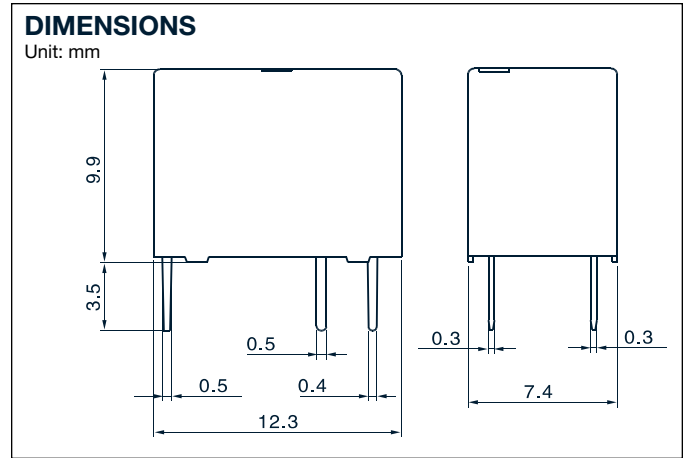
SA -S -1 12 D 1 -F -XX
(1) (2) (3) (4) (5) (6) (7) (8)

- | | |
|---|---|
| <p>(1) Type Designation
SA = SA Series</p> <p>(2) Protective Construction
S = Flux proofed
SH = Sealed type washable</p> <p>(3) Number of Poles
1 = 1 pole</p> <p>(4) Coil Voltage (VDC)
03, 05, 06, 09, 12, 18, 24</p> <p>(5) Coil Power
D = 0.20W
L = 0.15 W</p> | <p>(6) Contact Material
Nil = AgSnO₂
1 = AgCdO</p> <p>(7) Insulation System
Nil = Standard
B = Class B ⁽¹⁾
F = Class F ⁽²⁾</p> <p>(8) Special Parameter
Nil = Standard type
Letter or Number = Special Requirement</p> |
|---|---|

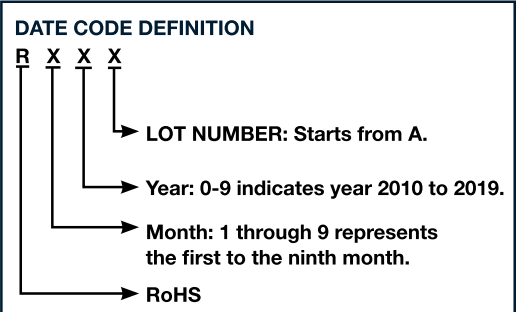
Note 1: Heat resistivity = -40°C to +130°C.
Note 2: Heat resistivity = -40°C to +155°C.

SAFETY APPROVAL RATINGS

Approval	UL/CUL
File Number	E223388
SA	1A 125VAC 1A 30VDC



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

Contact Material	Silver Alloy	
Initial contact resistance (@ 6VDC 1A)	100mΩ Max.	
Operate time (@ nominal voltage)	10msec. Max.	
Release Time (@ nominal voltage)	5msec. Max.	
Initial insulation resistance	1000M Ω Min. (DC500V)	
Initial dielectric strength	Between open contacts: AC500V, 50/60Hz 1Min.	
	Between coil and contact: AC1000V, 50/60Hz 1Min.	
Vibration Resistance	Functional	10 ~ 55Hz @ double amplitude of 1.5mm
	Destructive	10 ~ 55Hz @ double amplitude of 1.5mm
Shock Resistance	Functional	10G Min.
	Destructive	50G Min.
Endurance (operations)	Mechanical (@10,800 ops./h)	10,000,000
	Electrical (@1,800 ops./h)	100,000
Ambient Temperature	-30°C to +7°C (no condensation)	
Unit Weight	Approximately 2.1g	

CONTACT CAPACITY

Model	Nominal Switching Capacity (res. load)	Max. Switching Current	Max. Switching Voltage	Max. Switching Power
SA	1A 125VAC	1A	125VAC	125VA

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
2	75.19	26.60	140% of Nominal Voltage	75% of Nominal Voltage	5% of Nominal Voltage	Approx. 0.15W
3	50.00	60.00				
5	30.12	166				
6	25.00	240				
9	16.67	540				
12	12.50	960				
24	6.25	3840	115% of Nominal Voltage	75% of Nominal Voltage	5% of Nominal Voltage	Approx. 0.20W
2	100.00	20				
3	66.67	45				
5	40.00	125				
6	33.33	180				
9	22.22	405				
12	16.67	720				
24	8.33	2880				

CHARACTERISTIC CURVES

