

SR8 Miniature Power Relay

Applications:

- Industrial Control
- Power Switching to 12A

Features:

- Small Footprint, PCB Mount
- AgCdO Contacts
- Low Coil Power
- Washable
- Low Cost; High Reliability
- UL / cUL E148480
- 180°C Coil Wire Used for Class F

Contact Characteristics

Arrangements	1A, 1B or 1C
Material	Silver Cadmium Oxide (5 & 10 Amp) Silver Tin Oxide (12 Amp)
Ratings (contact Stetron for available horsepower ratings)	5A or 12A @ 125V _{AC} / 28V _{DC} 10A @ 240V _{AC} / 28V _{DC}
Max. Switching Power	336W or 2400VA
Max. Switching Voltage	110V _{DC} or 380V _{AC}
Max. Switching Current	15A
Initial Resistance	≤50mΩ

General Characteristics

Life	
Mechanical	10,000,000 ops
Electrical	100,000 ops
Insulation Resistance	500MΩ @500V _{DC} (Minimum)
Dielectric Strength	
Contact-Contact	1000V _{AC}
Contact-Coil	2500V _{AC}
Shock Resistance	
Functional	100m/s ² (11ms)
Vibration Resistance	
Functional	1.5mm (2x Ampl. @ 10-55Hz)
Terminal Strength	10N
Operating Temperature	-40 to +85°C
Operating Humidity	≤85%RH @ 40°C
Weight	11g
Operate Time	≤7ms
Release Time	≤4ms

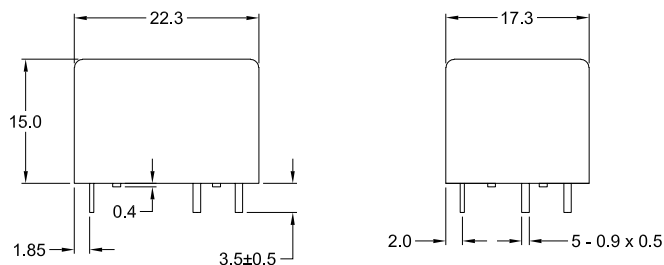
Coil Characteristics Measured @ 25°C

Coil Voltage [V _{DC}]		Coil Resistance [Ω ±10%]	Pull-In [V _{DC} max]	Drop-Out [V _{DC} min]
Rated	Maximum			
3.0	3.9	20	2.25	0.3
5.0	6.5	56	3.75	0.5
6.0	7.8	80	4.50	0.6
9.0	11.7	180	6.75	0.9
12.0	15.6	320	9.00	1.2
18.0	23.4	720	13.5	1.8
24.0	31.2	1280	18.0	2.4
48.0	62.4	3800	36.0	4.8

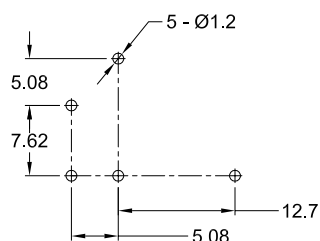


Mechanical Data

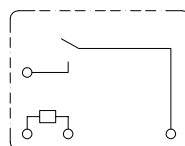
Dimensions
(all dimensions shown in millimeters)



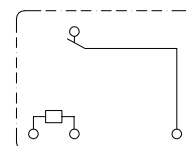
PCB Layout
(bottom view)



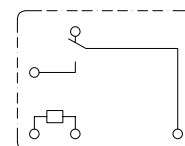
Schematic
(bottom view)



1 FORM A



1 FORM B



1 FORM C

Tolerance +/- 0.1

PART NUMBER CODE

Example:

- | | | | | | | | |
|--|-----|---|---|----|------|---|---|
| | SR8 | A | S | 10 | DC06 | F | |
| 1 - Series Code | | | | | | | 6 - Insulation Class:
Blank = Class B; F = Class F |
| 2 - Contact Arrangement: A = 1 Form A;
B = 1 Form B; C = 1 Form C | | | | | | | 5 - Coil Voltage:
DC 03, 05, 06, 09, 12, 18, 24 or 48V |
| 3 - Enclosure: S = Washable;
D = Epoxy Base Dust Cover | | | | | | | 4 - Contact Rating: 05, 10*, or 12** Amps |

*AgCdO
**AgSnO₂



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