



RoHS Compliant

### Features

- Large switching capacity up to 100A
- Ideal for high inrush applications
- Quick connect mounting available
- Suitable for automobile and lamp accessories
- QS-9000, ISO-9002 Certified Manufacturing

### Contact Data

Contact Arrangement	1A = SPST N.O. 1C = SPDT	Contact Resistance	< 30 milliohms initial
Contact Rating	1A : 100A @ 12VDC : 50A @ 24VDC 1C : N.O. 100A @ 12VDC : N.O. 50A @ 24VDC : N.C. 70A @ 12VDC : N.C. 35A @ 24VDC	Contact Material	AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub>
		Maximum Switching Power	1200W
		Maximum Switching Voltage	75VDC
		Maximum Switching Current	100A

### Coil Data

Coil Voltage VDC		Coil Resistance Ω +/- 10%	Pick Up Voltage VDC (max) 70% of rated voltage	Release Voltage VDC (min) 10% of rated voltage	Coil Power W	Operate Time ms	Release Time ms
Rated	Max						
12	15.6	50	8.40	1.2	2.90	10	5
24	31.2	155	16.80	2.4			

### General Data

Electrical Life @ rated load	100K cycles, typical
Mechanical Life	10M cycles, typical
Insulation Resistance	100M Ω min. @ 500VDC
Dielectric Strength, Coil to Contact Contact to Contact	2500V rms min. @ sea level 1500V rms min. @ sea level
Shock Resistance	147m/s <sup>2</sup> for 11 ms
Vibration Resistance	1.50mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	30N
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +155°C
Solderability	260°C for 5 s
Weight	60g

**Caution**

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.
2. For Dry Circuit application contact factory
3. The coil has a 1K ohm resistor in parallel that is taken into account in the coil resistance specification

Specifications and availability subject to change without notice.

Dimensions shown in mm. Dimensions are shown for reference purposes only.

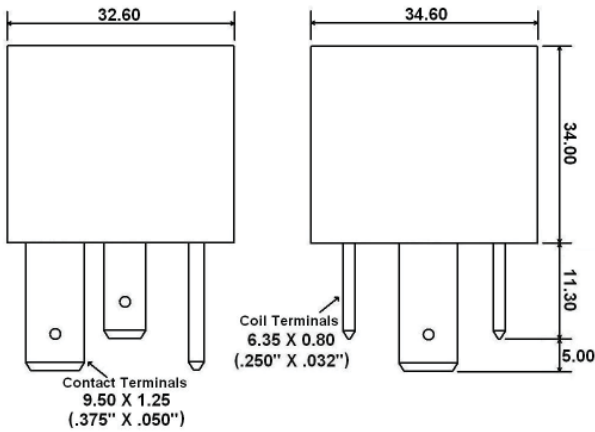
# A14

## Ordering Information

1. Series	A14	1C	C	Q	12VDC
A14					
2. Contact Arrangement					
1A = SPST N.O.					
1C = SPDT					
3. Sealing Option					
C = Dust Cover					
4. Termination Options					
Q = Quick Connect					
5. Coil Voltage					
12VDC					
24VDC					
6. Coil Suppression					
Blank = 680Ω for 12VDC; 2700Ω for 24VDC					
D = Diode (1N4005)					
2D = 2 Diodes (1N4005)					
**Consult factory if other values are needed					

## Dimensions

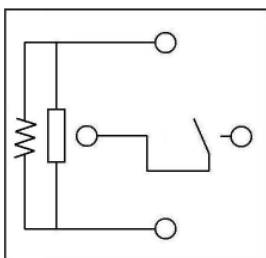
Units = mm



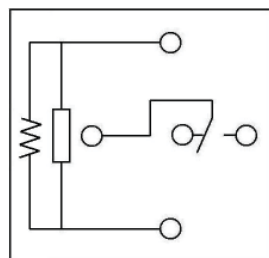
\*\* We recommend the PR Series socket from Custom Connector Corporation

## Schematics

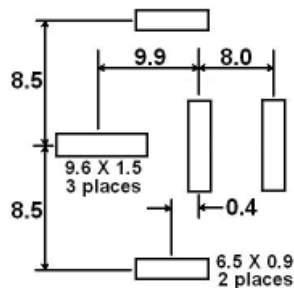
Bottom Views



1A



1C



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