



RoHS Compliant

## Features

- Switching capacity up to 20A
- Small size and light weight
- PCB pin and quick connect mounting available
- Suitable for automobile and lamp accessories
- QS-9000, ISO-9002 Certified Manufacturing

## Contact Data

Contact Arrangement	1A = SPST N.O. 1B = SPST N.C.
Contact Rating	1A : 20A @ 14VDC 1B : 15A @ 14VDC

Contact Resistance	< 50 milliohms initial
Contact Material	AgSnO <sub>2</sub>
Maximum Switching Power	280W
Maximum Switching Voltage	75VDC
Maximum Switching Current	30A

## 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	124	8.40	1.2	1.16	10	7
24	31.2	489	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	1500V rms min. @ sea level 1000V rms min. @ sea level
Shock Resistance	100m/s <sup>2</sup> for 11 ms
Vibration Resistance	1.27mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	10N (quick connect), 4N (PCB pins)
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +155°C
Solderability	260°C for 5 s
Weight	14g

### Caution

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

Specifications and availability subject to change without notice.

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

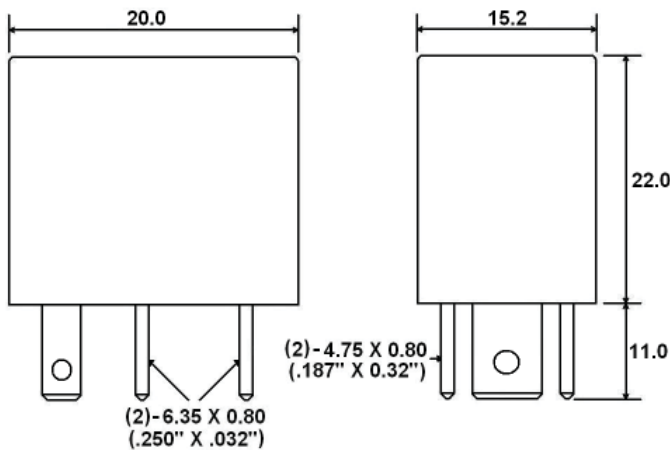
# A1M

## Ordering Information

1. Series	A1M	1A	S	P	12VDC
A1M					
2. Contact Arrangement	1A = SPST N.O. 1B = SPST N.C.				
3. Sealing Option	S = Sealed C = Dust Cover				
4. Termination	P = PCB Pins Q = Quick Connect				
5. Coil Voltage	12VDC 24VDC				
6. Coil Suppression	Blank = Standard D = Diode (1N4005) R = Resistor (680 ohms) ** Consult factory if other values are needed				

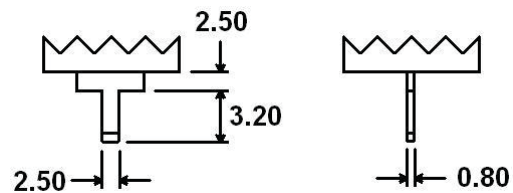
## Dimensions

Units = mm



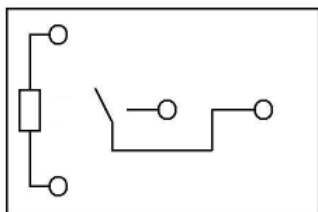
## PC Pin Dimensions

Units = mm

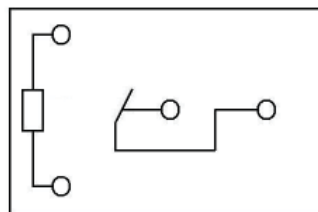


## Schematics & PC Layouts

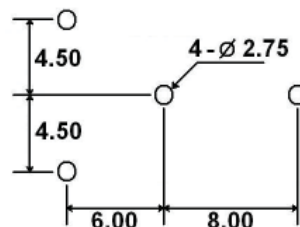
Bottom Views



1A



1B



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