



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 ₂
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 ² 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.

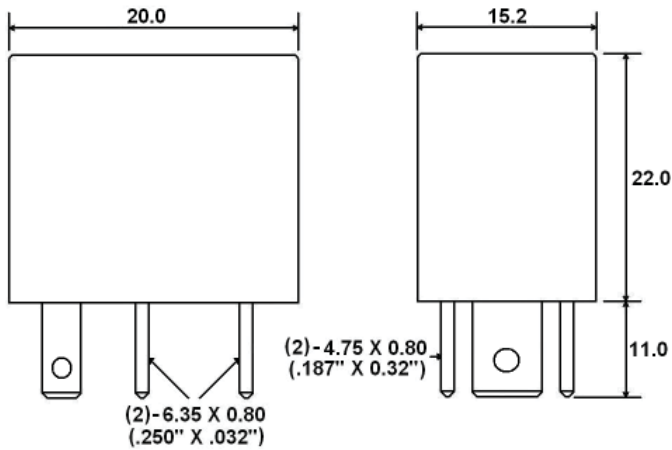
A1M

Ordering Information

1. Series	A1M	1A	S	P	12VDC
A1M					
2. Contact Arrangement					
1A = SPST N.O.					
1B = SPST N.C.					
3. Sealing Option					
C = Dust Cover					
4. Termination					
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					

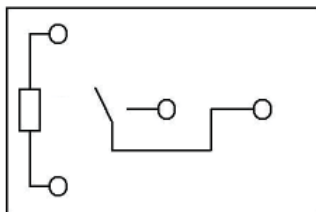
Dimensions

Units = mm

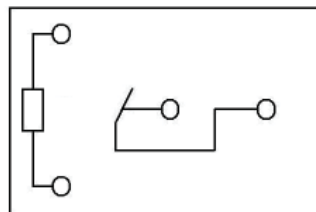


Schematics & PC Layouts

Bottom Views



1A



1B