



Features

- Switching capacity up to 40A
- Small size and light weight
- Suitable for automobile and lamp accessories
- Manufactured in compliance with QS-9000 and ISO-9002



Contact Data*

Contact Arrangement	1A = SPST N.O. 1C = SPDT	Contact Resistance	< 50 milliohms initial
Contact Rating	40A @ 14VDC, Normally Open 25A @ 14VDC, Normally Closed	Contact Material	AgSnO ₂
		Maximum Switching Power	560W
		Maximum Switching Voltage	28VDC
		Maximum Switching Current	40A

Coil Data*

Coil Voltage VDC		Coil Resistance Ω +/- 10%	Pick Up Voltage VDC (max) 65% 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	96	7.2	1.2	1.5	10	10
24	31.2	320	14.4	2.4	1.8		

General Data*

Electrical Life @ rated load	100K cycles, average
Mechanical Life	10M cycles, average
Insulation Resistance	100M Ω min. @ 500VDC initial
Dielectric Strength, Coil to Contact Contact to Contact	500V rms min. @ sea level initial 500V rms min. @ sea level initial
Shock Resistance	Functional 100m/s ² for 11 ms Destructive 1000m/s ² for 11 ms
Vibration Resistance	1.5mm double amplitude 10~55Hz
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +155°C
Solderability	260°C for 5 s
Weight	18g

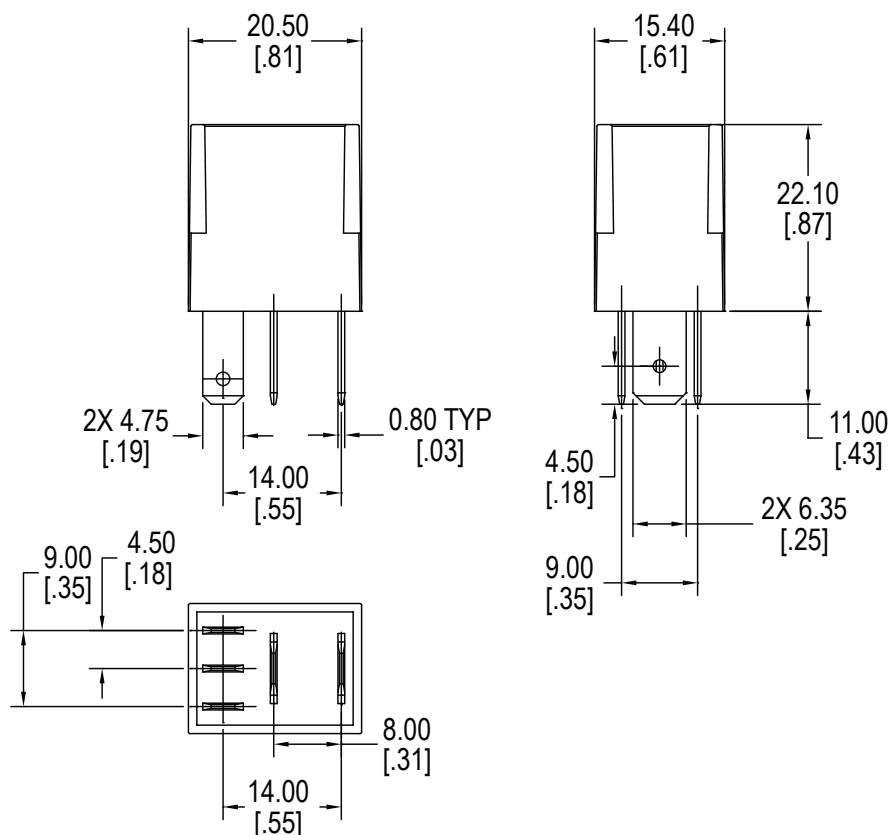
* Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

Ordering Information

1. Series	A1M	1A	C	Q	12VDC
A1M					
2. Contact Arrangement					
1A = SPST N.O.					
1C = SPDT					
3. Sealing Option					
S = Sealed					
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 for 12VDC, 2700 ohms for 24VDC)					
** Consult factory if other values are needed					

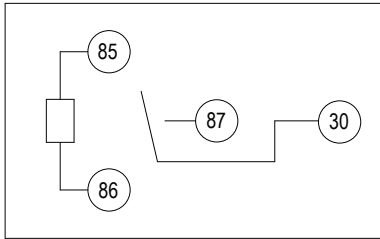
Dimensions

Units = mm

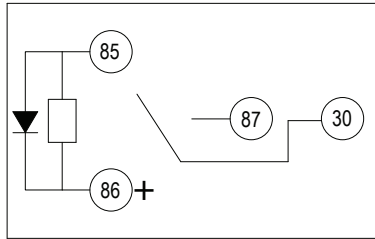


Schematics

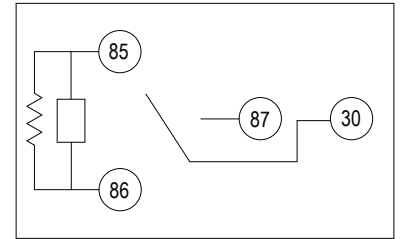
Bottom Views



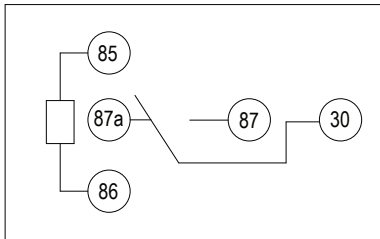
1A



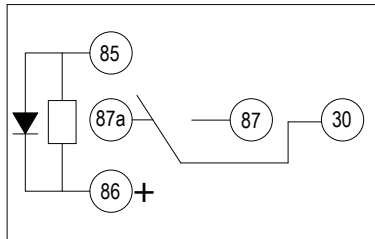
1A with Diode



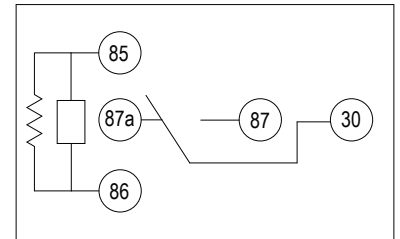
1A with Resistor



1C



1C with Diode



1C with Resistor