



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	75VDC
		Maximum Switching Current	40A

NOTE: See DC Load Breaking Capacity chart on page 3

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

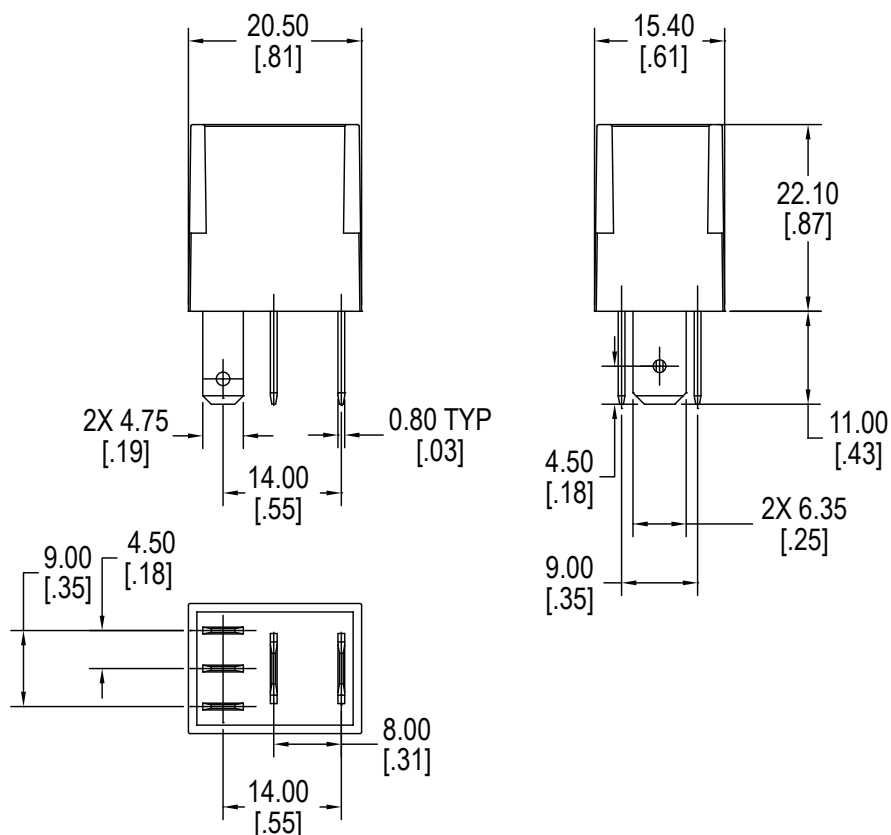
* Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application. 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

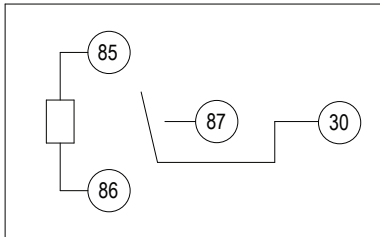
Units = mm [in]



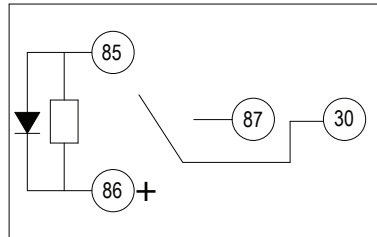
Schematics

Bottom Views

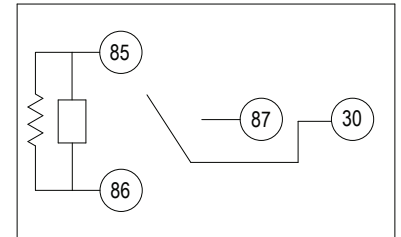
1A



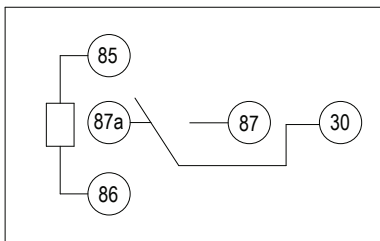
1A with Diode



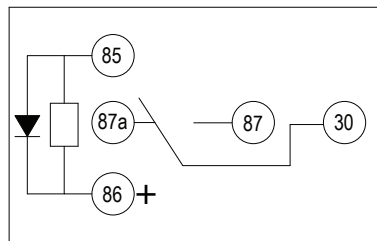
1A with Resistor



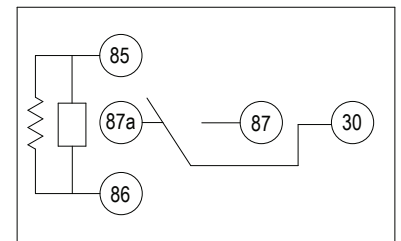
1C



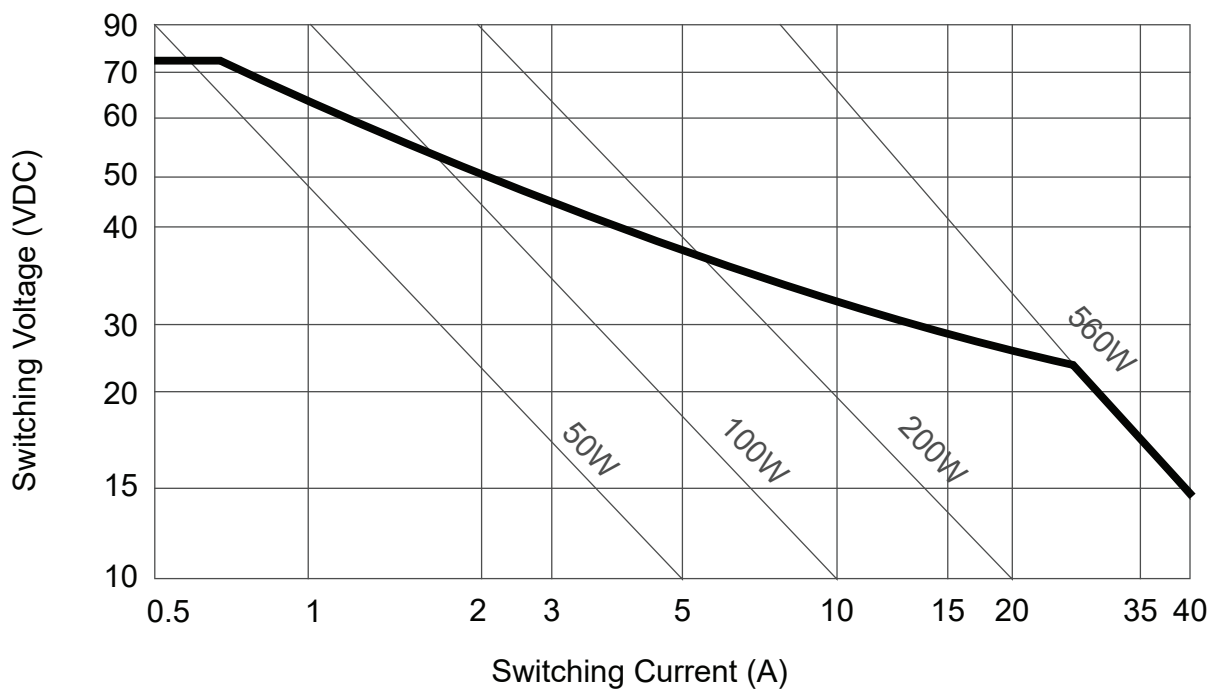
1C with Diode



1C with Resistor



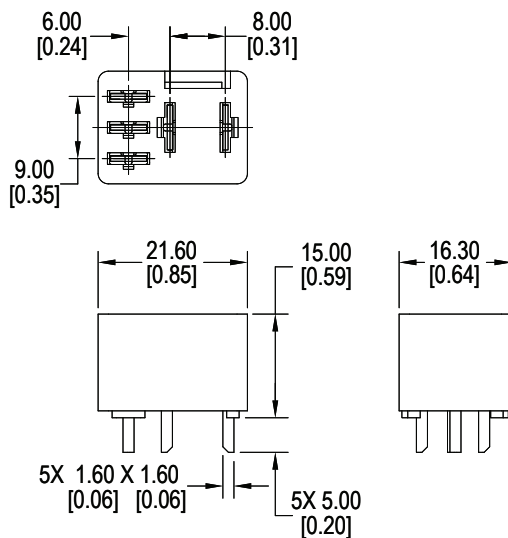
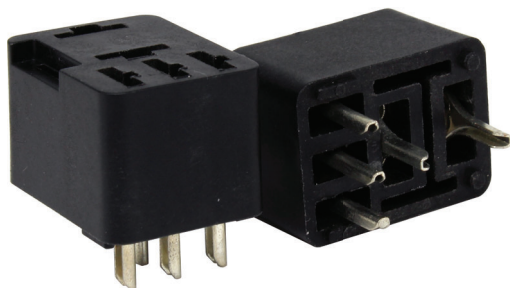
DC Load Breaking Capacity Chart



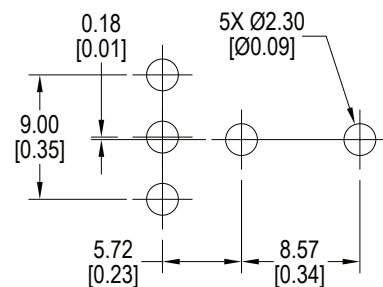
Sockets

Units = mm [in]

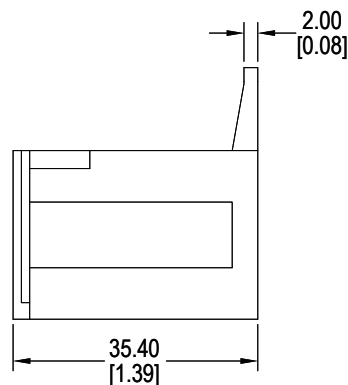
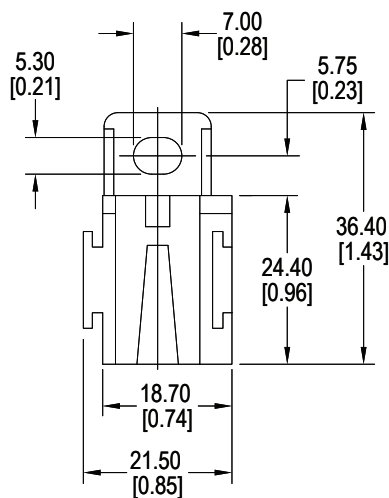
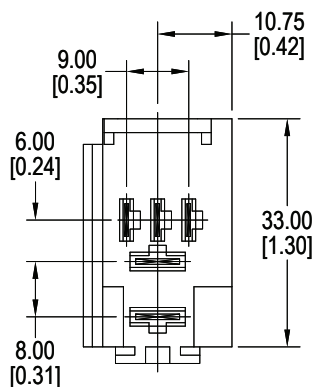
RS1105



Suggested PC Layout *Top View*



RS1200



Metal Crimp Terminal Compatibility

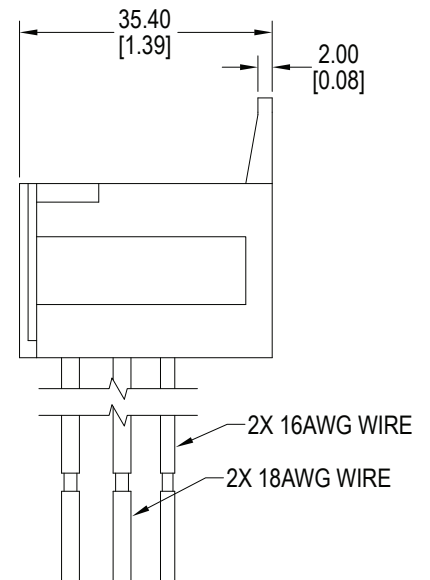
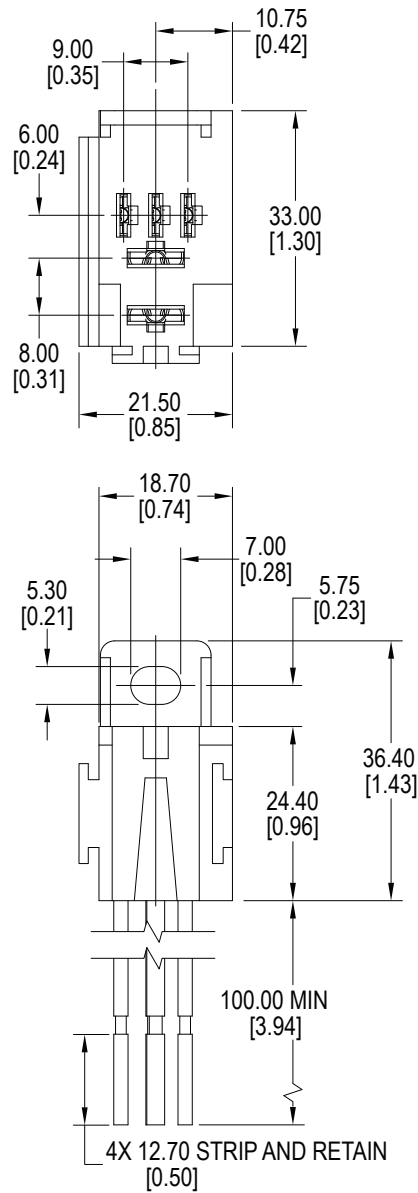
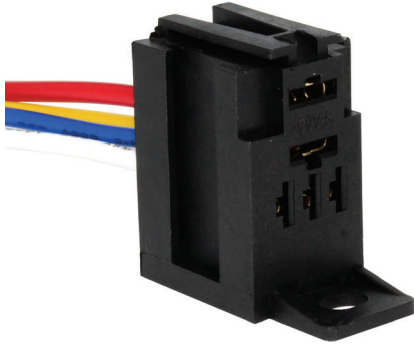
Mfr.	Part Number	Wire AWG	Blade
TE	42100-2	14-18	1/4"
TE	42881-1	14-19	1/4"
TE	42904-2	12-16	1/4"
TE	60249-3	12-16	1/4"
TE	60253-2	12-14	1/4"
TE	281197-2	13-17	3/16"
TE	282180-3	15-20	3/16"

CIT Relay & Switch references these female quick connect terminals to be used with our automotive sockets. Current capability of the terminals depends on the gauge of the wire used, the quality of the crimp, the addition of solder or a weld, operating conditions, ambient temperature, and so forth. Terminals to be purchased separately from the manufacturer.

Sockets

Units = mm [in]

RS1214



Sockets

Units = mm [in]

RS1215

