



Features

- Switching capacity up to 30A
- Small size and light weight
- PCB pin and quick connect mounting available
- Suitable for automobile and lamp accessories



Contact Data*

Contact Arrangement	1A = SPST N.O. 1C = SPDT	Contact Resistance	< 50 milliohms initial
Contact Rating	NO	Contact Material	AgSnO ₂
	30A @ 14VDC	Maximum Switching Power	420W
	15A @ 28VDC	Maximum Switching Voltage	75VDC
	1.5A @ 48VDC	Maximum Switching Current	30A
	NC		
	20A @ 14VDC		
	10A @ 28VDC		
	1A @ 48VDC		

NOTE: See DC Load Breaking Capacity chart on page 3

Coil Data*

Coil Voltage VDC		Coil Resistance Ω +/- 10%		Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	1.2W	1.5W	70% of rated voltage	10% of rated voltage			
6	7.8	30	24	4.2	.6	1.2 1.5	10	7
12	15.6	120	96	8.4	1.2			
24	31.2	480	384	18.0	2.4			
48	62.4	1920	1536	33.6	4.8			

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	2500V rms min. @ sea level initial
Contact to Contact	1500V rms min. @ sea level initial
Shock Resistance	100m/s ² for 11 ms
Vibration Resistance	1.27mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	8N (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	18.5g

* 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.

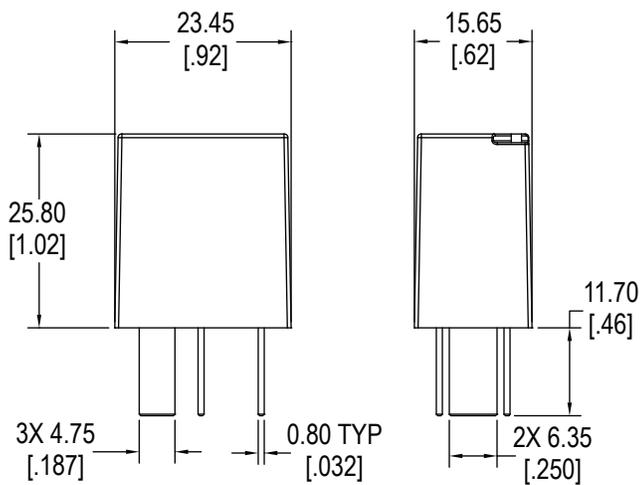
Ordering Information

1. Series	A1	1A	S	Q	12VDC	1.2
A1						
2. Contact Arrangement	1A = SPST N.O. 1C = SPDT					
3. Sealing Option	S = Sealed					
4. Termination	P = PCB Pins Q = Quick Connect					
5. Coil Voltage	6VDC 12VDC 24VDC 48VDC					
6. Coil Power	1.2 = 1.2W 1.5 = 1.5W					
7. Coil Suppression	Blank = Standard D = Diode (1N4005) R = Resistor (680Ω for 12VDC, 2700Ω for 24VDC) ** Consult factory if other values are needed					

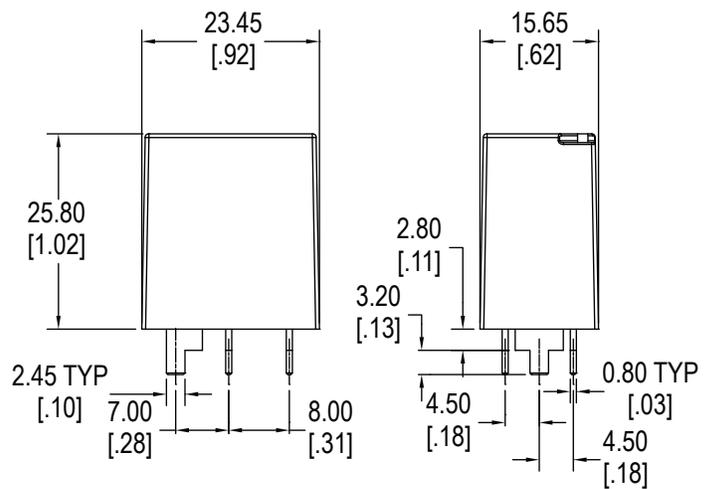
Dimensions

Units = mm

Quick Connect



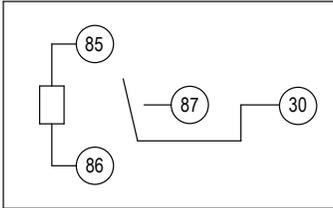
PC Pin



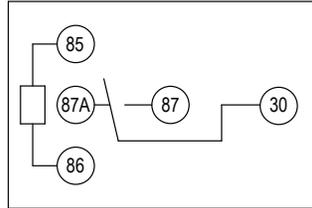
Schematics & PC Layout

Bottom Views

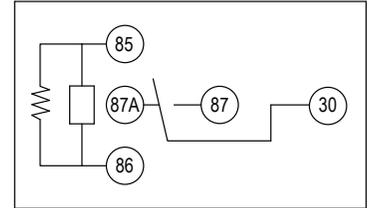
1A



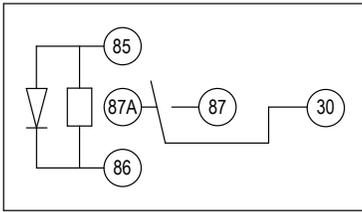
1C



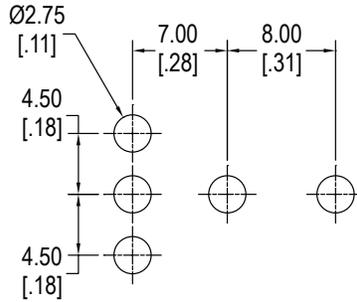
1C with Resistor



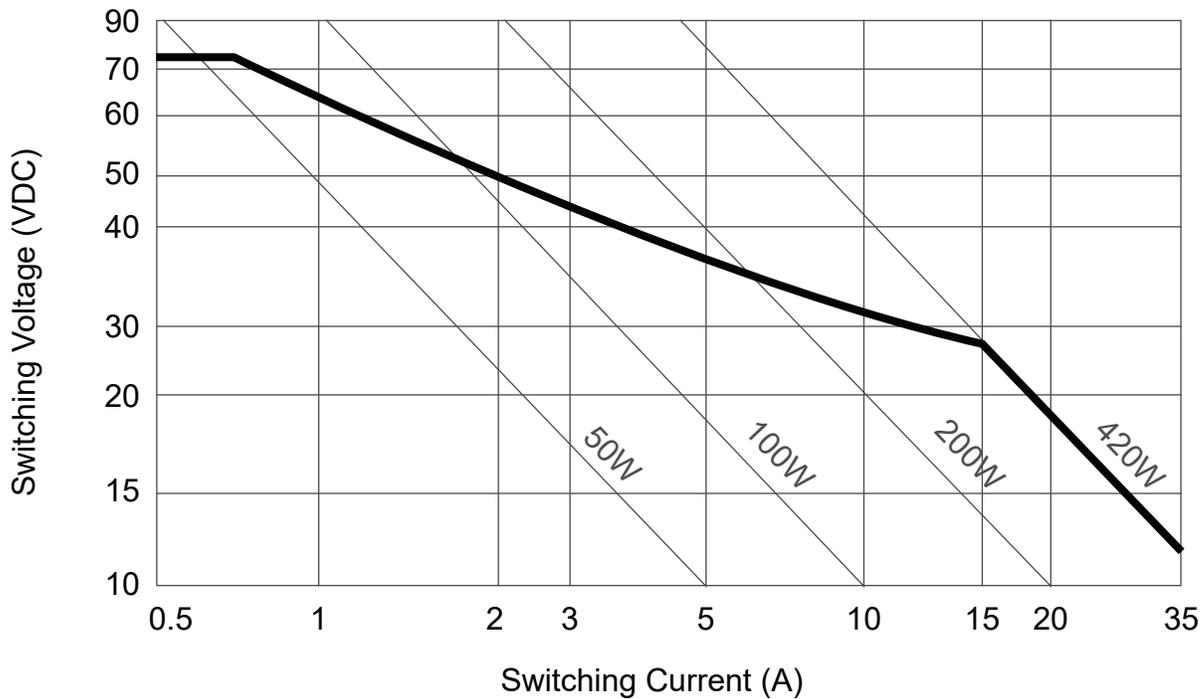
1C with Diode



PC Layout

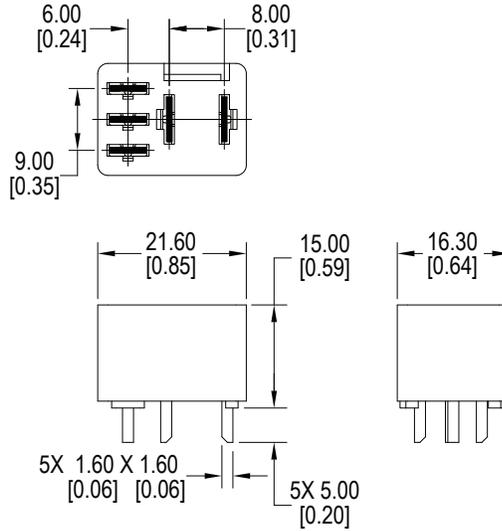
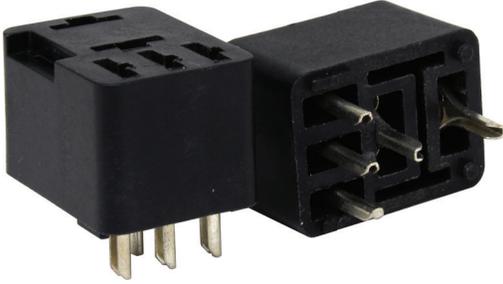


DC Load Breaking Capacity Chart

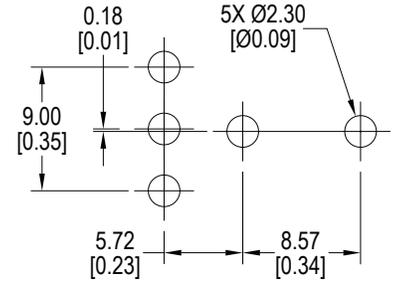


Sockets

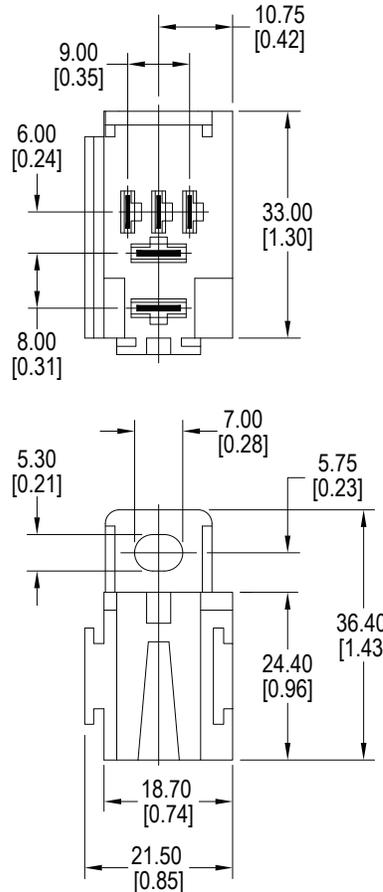
RS1105



Schematic



RS1200



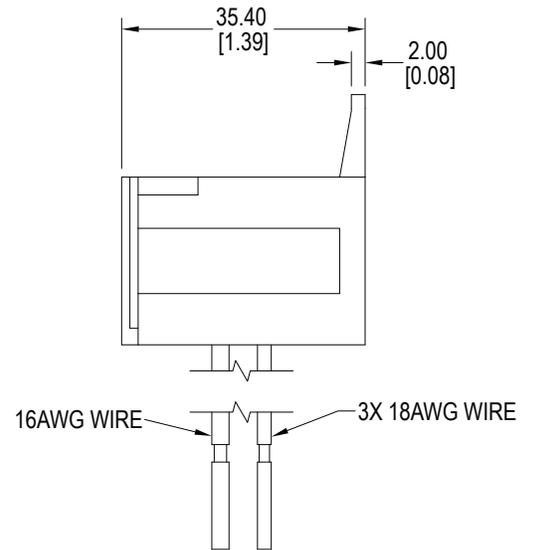
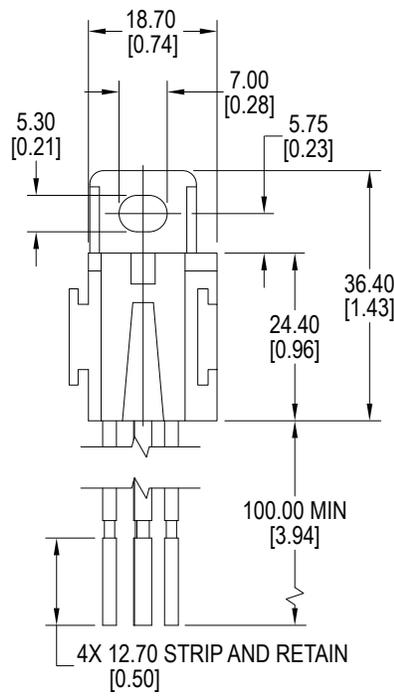
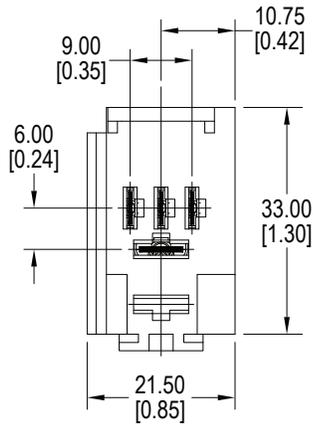
Metal Crimp Terminal Compatibility

Mfr.	Part Number	Wire AWG	Size
TE	42100	14-18	.250" (contact)
TE	42281	14-18	.250" (contact)
TE	42904	12-16	.250" (contact)
TE	60249	12-16	.250" (contact)
TE	60253	12-14	.250" (contact)
TE	281197	13-17	.187" (coil)
TE	282180	15-20	.187" (coil)

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

RS1214



Sockets

RS1215

