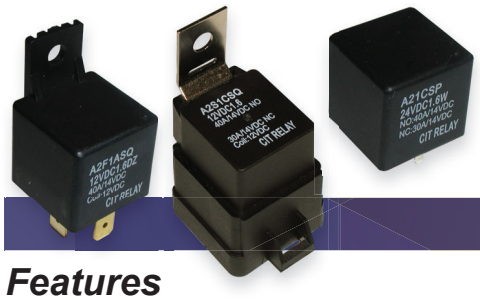


CIT Relay & Switch

A2

26.0 x 26.0 x 24.5 (39.5) mm

Features

- Large switching capacity up to 40A
- Small size and light weight
- PCB pin and quick connect mounting available
- Suitable for automobile and lamp accessories
- Manufactured in compliance with QS-9000 and ISO-9002

RoHS COMPLIANT

Contact Data*

Contact Arrangement		1A = SPST N.O. 1B = SPST N.C. 1C = SPDT
Contact Rating	NO	40A @ 14VDC, resistive 20A @ 28VDC, resistive 2A @ 48VDC, resistive
	NC	30A @ 14VDC, resistive 15A @ 28VDC, resistive 1A @ 48VDC, resistive

Contact Resistance	< 30 milliohms initial
Contact Material	$AgSnO_2$
Maximum Switching Power	630W
Maximum Switching Voltage	75VDC
Maximum Switching Current	40A

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	1.6W	1.9W	65% of rated voltage	10% of rated voltage			
6	7.8	22.5	19.0	3.9	.6	1.6 1.9	7	5
12	15.6	90.0	75.8	7.8	1.2			
24	31.2	360.0	303.2	15.6	2.4			
48	62.4	1440.0	1212.0	31.2	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	750V rms min. @ sea level initial
	Contact to Contact	500V rms min. @ sea level initial
Shock Resistance		$147 m/s^2$ for 11 ms
Vibration Resistance		1.5mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength		8N (quick connect), 4N (PCB pins)
Operating Temperature		-40ºC to +125ºC
Storage Temperature		-40ºC to +155ºC
Solderability		260ºC for 5 s
Weight		31g

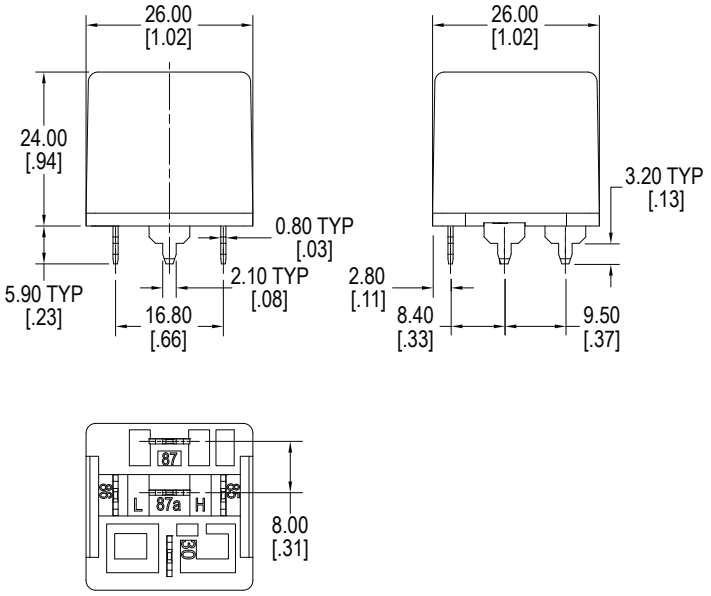
* *Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application.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

Ordering Information

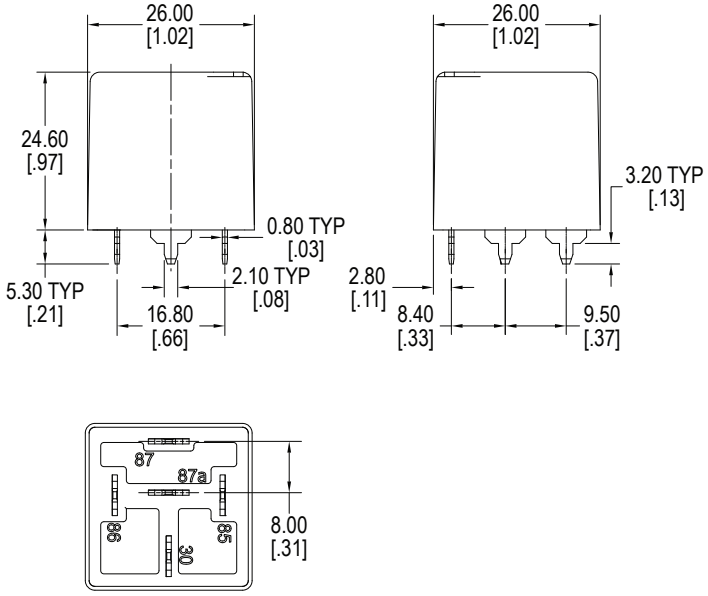
1. Series	A2	1C	S	Q	12VDC	1.6	
A2 standard A2F with mounting flange A2M with metal bracket A2S with metal bracket and shroud							
2. Contact Arrangement 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT							
3. Sealing Option S = Sealed C = Dust Cover *not available with A2S							
4. Termination P = PCB Pins *not available with A2S Q = Quick Connect							
5. Coil Voltage 6VDC 12VDC 24VDC 48VDC							
6. Coil Power 1.6 = 1.6W 1.9 = 1.9W							
7. Coil Suppression Blank = Standard D = Diode (1N4005) Cathode on “86” terminal R = Resistor (180Ω for 6VDC; 680Ω for 12VDC; 2700Ω for 24VDC) ** Consult factory if other values are needed							

Dimensions

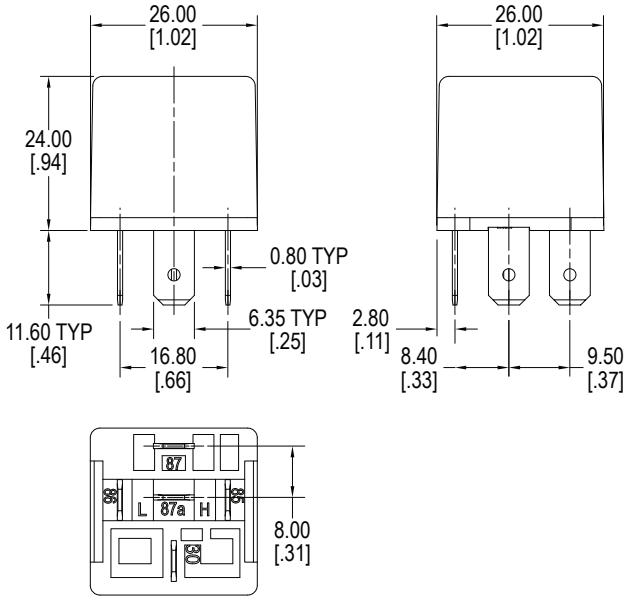
Units = mm



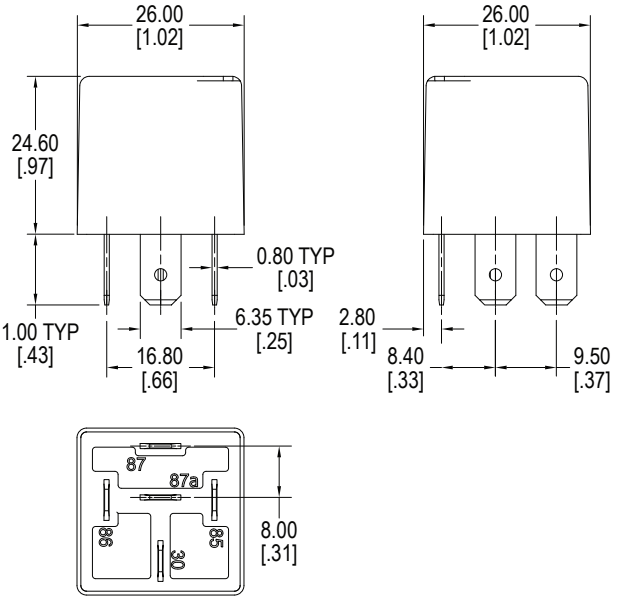
A2 with PC Pins, Dust Cover



A2 with PC Pins, Sealed



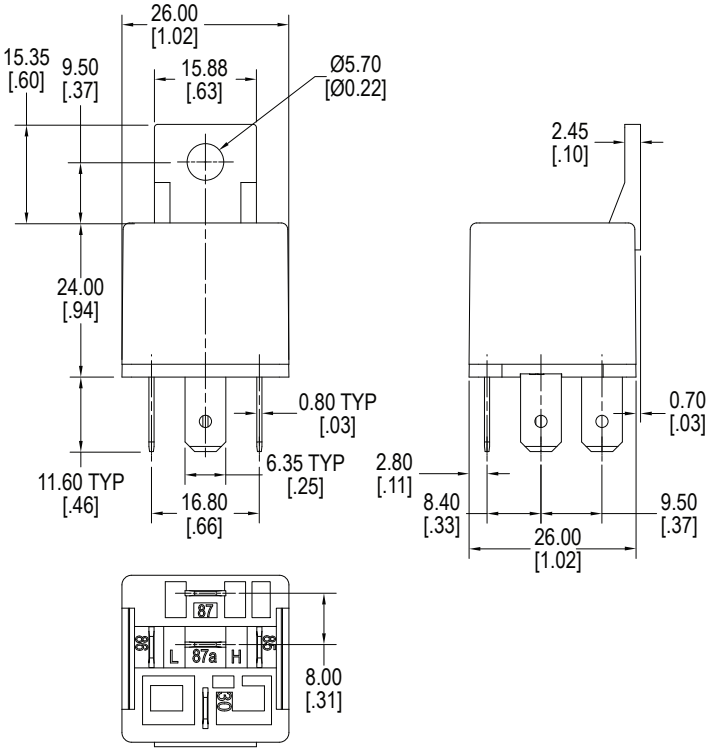
A2 with Quick Connect, Dust Cover



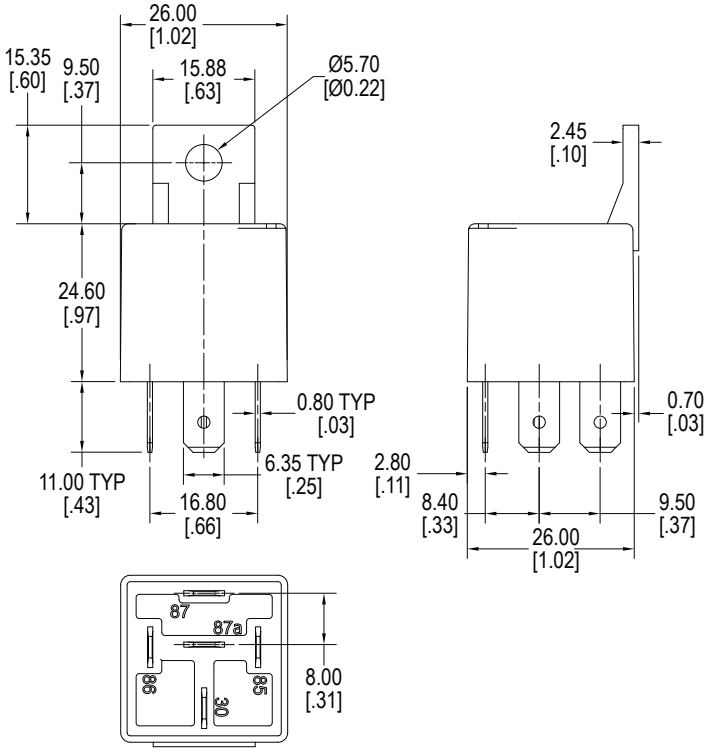
A2 with Quick Connect, Sealed

Dimensions

Units = mm



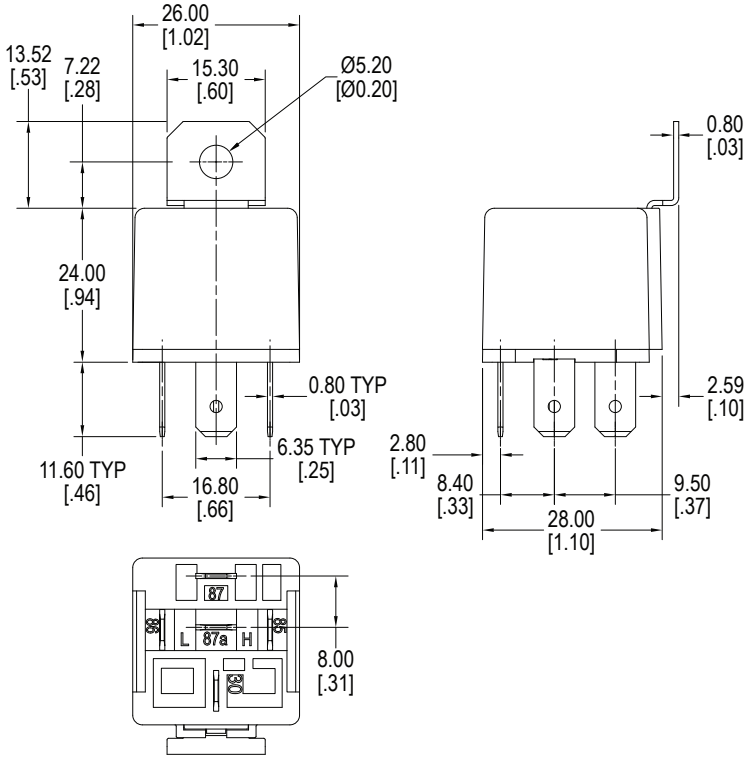
A2F with Quick Connect, Dust Cover



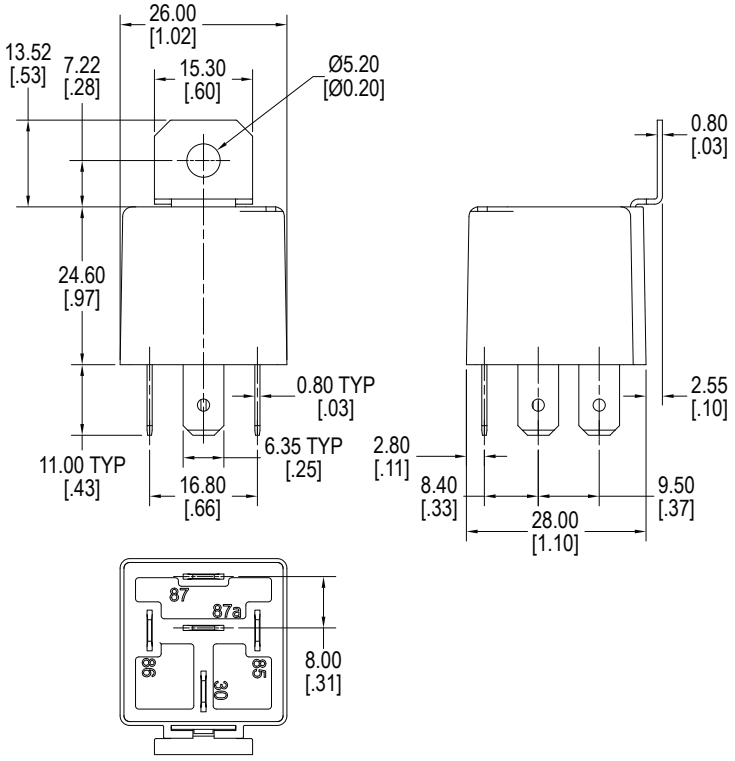
A2F with Quick Connect, Sealed

Dimensions

Units = mm



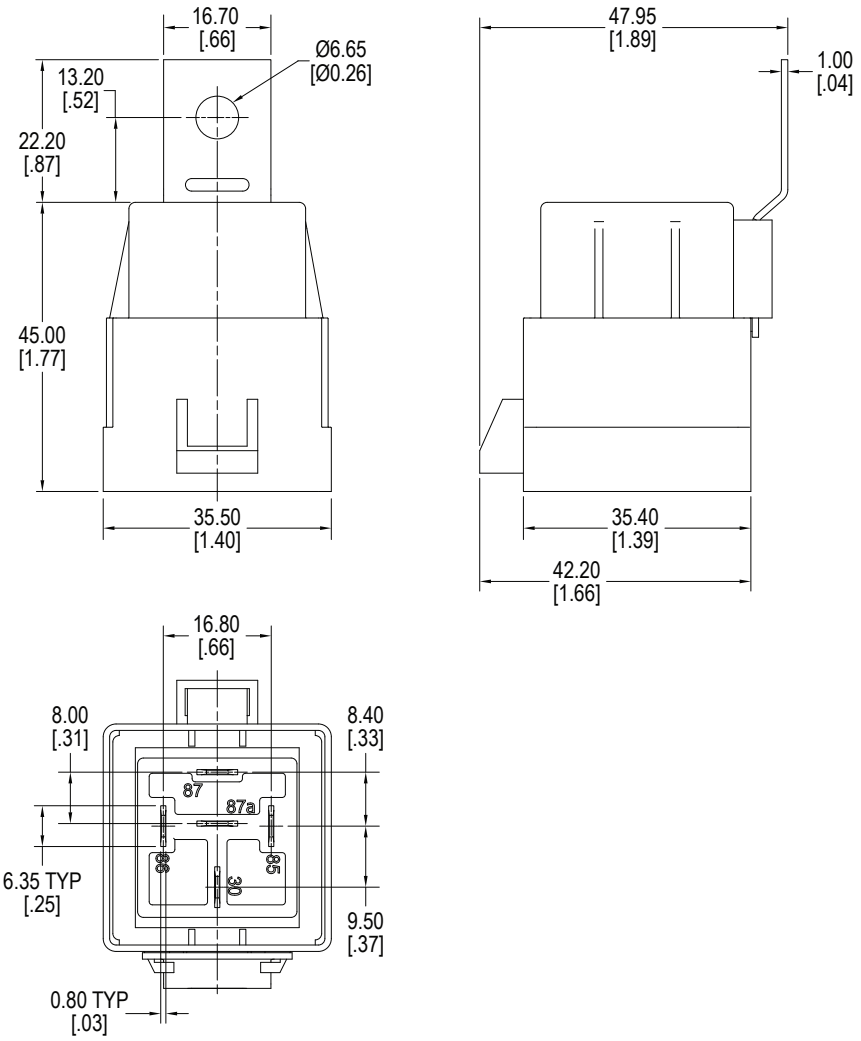
A2M with Quick Connect, Dust Cover



A2M with Quick Connect, Sealed

Dimensions

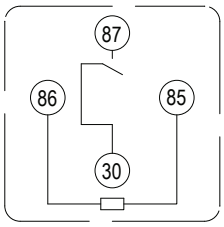
Units = mm



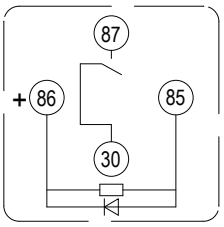
A2S, Quick Connect, Sealed

Schematics

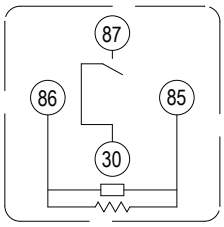
Bottom Views



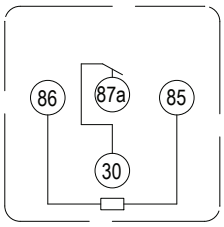
1A



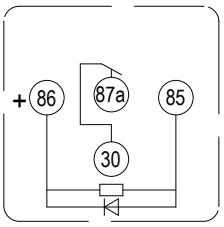
1A with Diode



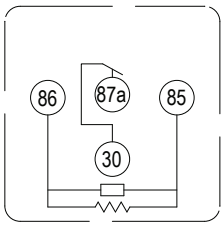
1A with Resistor



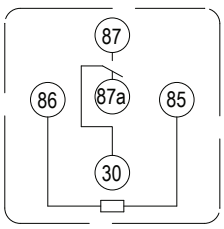
1B



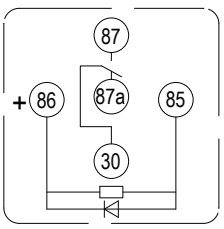
1B with Diode



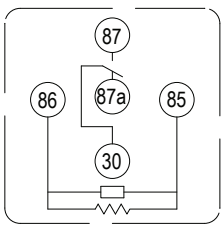
1B with Resistor



1C



1C with Diode



1C with Resistor

PC Layout

Bottom View