CIT RELAY & SWITCH™
Division of Circuit Interruption Technology, Inc.

RoHS Compliant

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
- QS-9000, ISO-9002 Certified Manufacturing

Contact Data

Contact Arrangement	1A = SPST N.O. 1B = SPST N.C. 1C = SPDT 1U = SPST N.O. (2 terminals)
Contact Rating	1A : 40A @ 14VDC 1B : 30A @ 14VDC 1C : 40A @ 14VDC N.O. and : 30A @ 14VDCN.C. 1U : 2x20A @ 14VDC

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) 70% of rated voltage	Release Voltage VDC (min) 10% of rated voltage	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	1.6W	1.9W					
6	7.8	22.5	19	4.20	.6	1.60 or 1.90	7	5
12	15.6	90	75.8	8.40	1.2			
24	31.2	360	303.2	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	750V rms min. @ sea level 500V rms min. @ sea level
Shock Resistance	147m/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

Caution

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

Specifications and availability subject to change without notice.

Dimensions shown in mm. Dimensions are shown for reference purposes only.

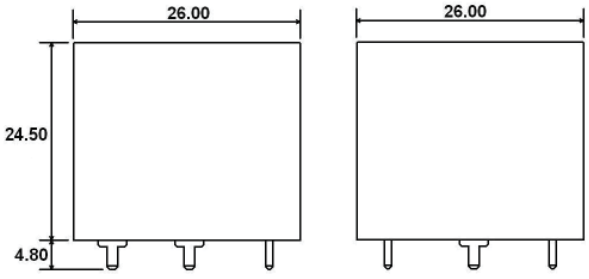
www.citrelay.com
phone - 763.535.2339 fax - 763.535.2194

Ordering Information

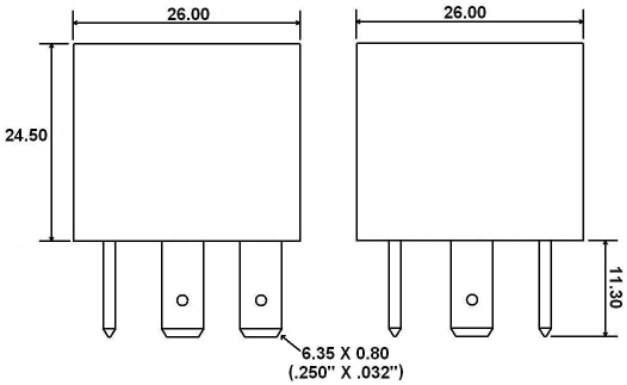
1. Series	A2	1C	S	Q	12VDC	1.6
A2 standard A2F with mounting flange A2M with metal bracket A2S with metal bracket and shroud						
2. Contact Arrangement 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT 1U = SPST N.O. (2 terminals)						
3. Sealing Option S = Sealed C = Dust Cover *not available with A2S						
4. Termination P = PCB Pins *not available with A2S Q = Quick Connect						
5. Coil Voltage 6VDC 12VDC 24VDC						
6. Coil Power 1.6 = 1.6W 1.9 = 1.9W						
7. Coil Suppression Blank = Standard D = Diode (1N4005) Cathode on “86” terminal D1 = Diode (1N4004) Cathode on “86” terminal R = Resistor (180Ω for 6VDC; 680Ω for 12VDC; 2700Ω for 24VDC) DR = Diode & Resistor Cathode on “86” terminal (1N4005 & 180Ω for 6VDC; 680Ω for 12VDC; 2700Ω for 24VDC) ** Consult factory if other values are needed						

Dimensions

Units = mm



A2 with PC Pins



A2 with Quick Connects

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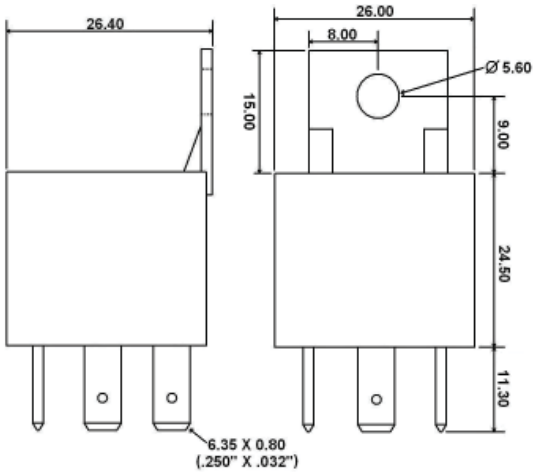
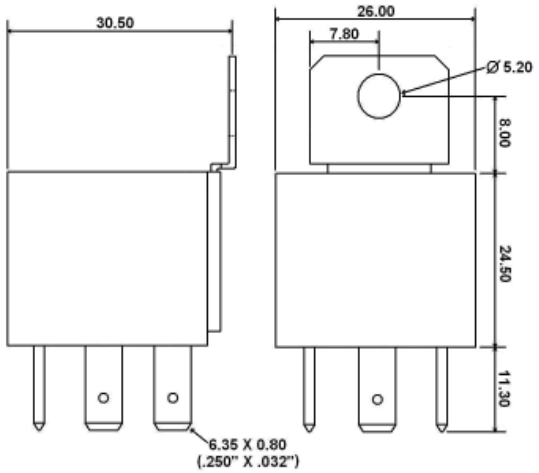
Dimensions

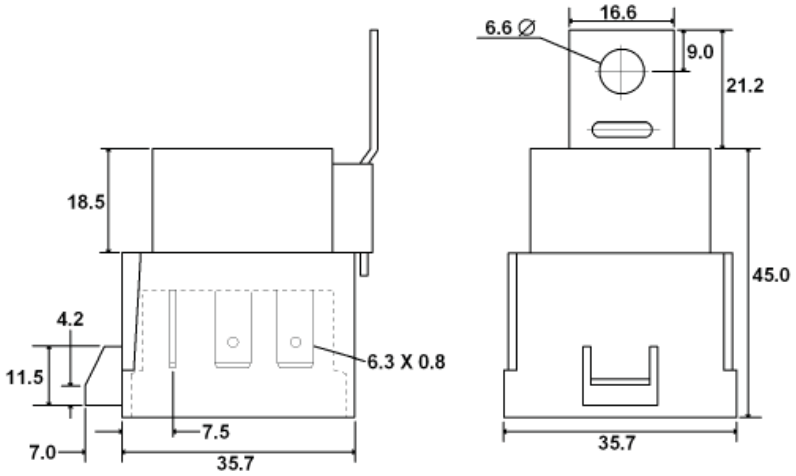
Units = mm



A2F with Quick Connect



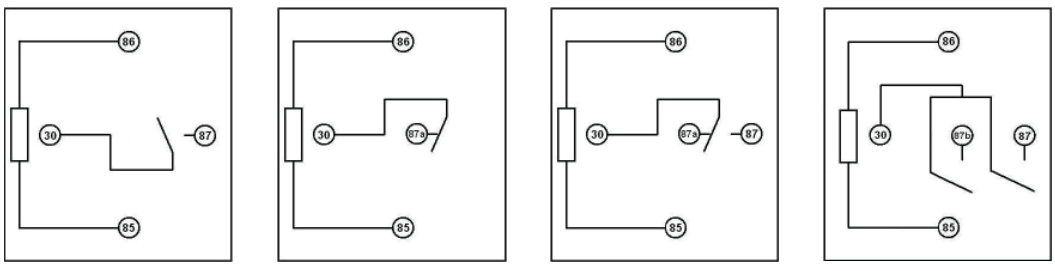
A2M with Quick Connects



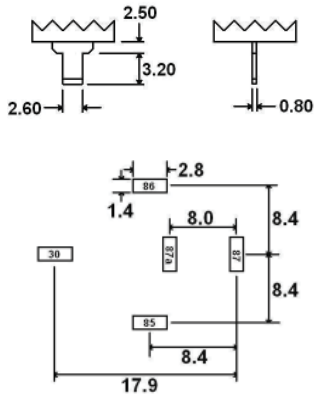
A2S with Quick Connects

Schematics, PC Pin Dimenstions & PC Layouts

Bottom Views



1A *1B* *1C* *1U*



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