



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			
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 Coil Resistance VDC 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			5
12	15.6	90.0	75.8	7.8	1.2	1.6	7	
24	31.2	360.0	303.2	15.6	2.4	1.9	7	
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		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		-40°C to +125°C			
Storage Temperature		-40°C to +155°C			
Solderability		260°C 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.

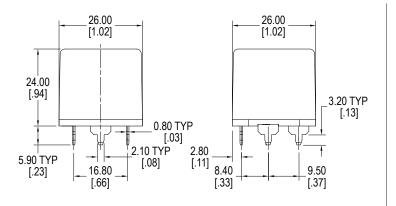


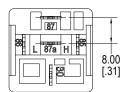
Ordering Information

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" R = Resistor (180Ω for 6VDC; 680Ω fo ** Consult factory if other values are needed	r 12VDC; 270	0Ω for 24VDC))				

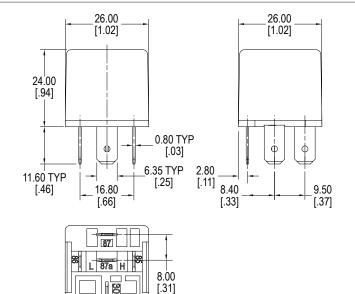


Units = mm

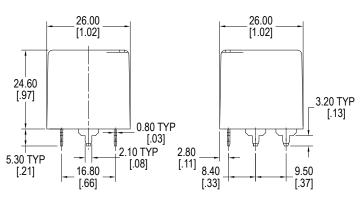


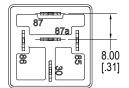


A2 with PC Pins, Dust Cover

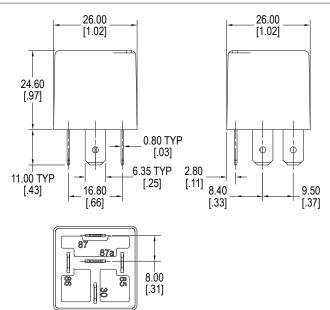


A2 with Quick Connect, Dust Cover





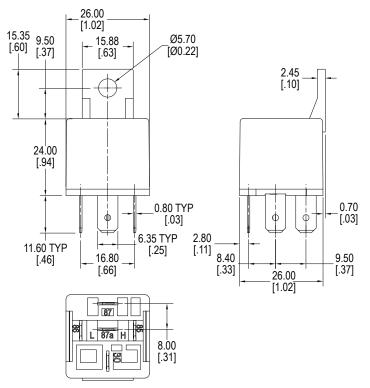
A2 with PC Pins, Sealed



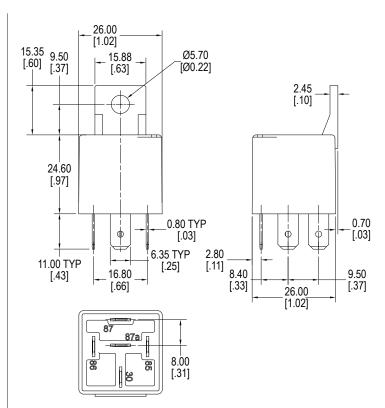
A2 with Quick Connect, Sealed



Units = mm



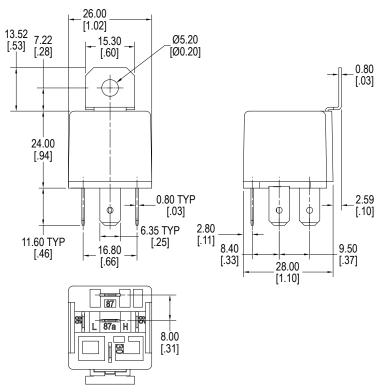
A2F with Quick Connect, Dust Cover



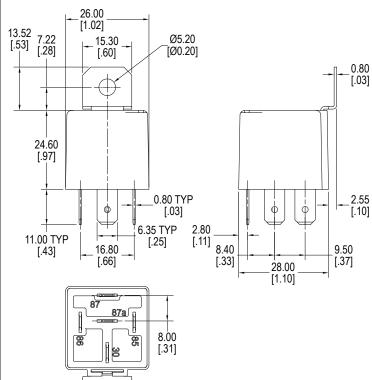
A2F with Quick Connect, Sealed



Units = mm



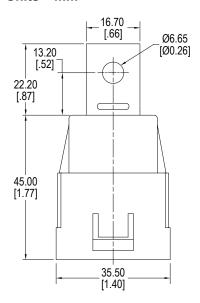
A2M with Quick Connect, Dust Cover

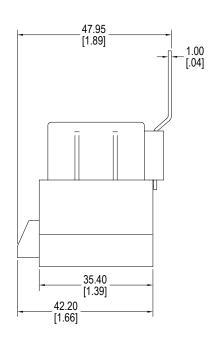


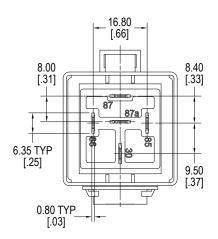
A2M with Quick Connect, Sealed



Units = mm



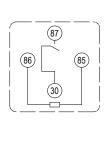




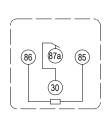
A2S, Quick Connect, Sealed

Schematics & PC Layouts

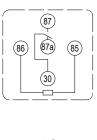
Bottom Views



1A



1B



1C

