



26.5 x 32.0 x 35.5 mm



- Maxi ISO Sized Automotive Relay
- · Internal Blowout Magnets
- Capable of Switching up to 145VDC
- · Suitable for DC Motor and Lamp Control
- PCB Pin and Quick Connect Mounting Options

Contact Data*

Contact Arrangement	1A = SPST N.O.			
	1C = SPDT			
Contact Rating	80A @ 14VDC, resistive			
	60A @ 36VDC, resistive			
	50A @ 48VDC, resistive			
	30A @ 72VDC, resistive			
	15A @ 90VDC, resistive			
	5A @ 145VDC, resistive			

Contact Resistance	< 50 milliohms initial		
Contact Material	AgSnO ₂		
Maximum Switching Voltage	145VDC		
Maximum Switching Current	Make: 150A@14VDC for 3 seconds		
	Break : 80A		

Coil Data*

Coil Voltage C VDC		Coil Resistance Ω +/- 10%	Pick Up Voltage VDC (max) 70% of rated	Release Voltage VDC (min) 10% of rated	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	1.6W	voltage	voltage			
12	15.6	90	7.8	1.2	1.6W	15	15
24	31.2	360	15.6	2.4	1.000	15	15

General Data*

Electrical Life @ rated lo	ad	100K cycles, average
Mechanical Life		500K cycles, average
Insulation Resistance		1000M 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	Functional	42m/s ² (4.4G)
	Destructive	288m/s ² (30G)
Vibration Resistance		0.5mm 10~500Hz double amplitude (10G)
Operating Temperature		-40°C to +125°C (above 85°C, consult factory)
Storage Temperature		-40°C to +155°C
Solderability		260°C for 5 s
Weight		80g

^{*} 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.

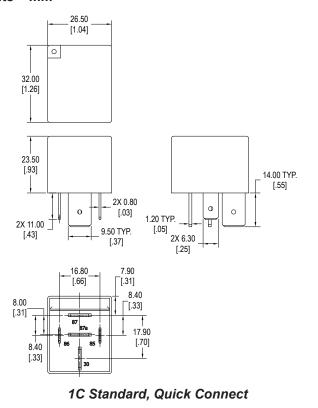


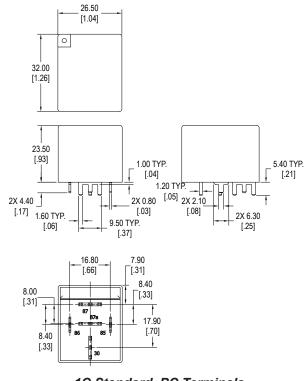
Ordering Information

1. Series	A3K	1A	S	Q	12VDC	1.6	R
A3K standard A3KM with metal bracket							
2. Contact Arrangement 1A = SPST N.O. 1C = SPDT							
3. Sealing Option S = Sealed C = Dust Cover							
4. Termination P = PCB Pins Q = Quick Connect							
5. Coil Voltage 12VDC 24VDC							
6. Coil Power 1.6 = 1.6W							
7. Coil Suppression Blank = Standard D = Diode (1N4007) Cathode on "86" term R = Resistor (680Ω for 12VDC;2700Ω for ** Consult factory if other values are needed							

Dimensions

Units = mm

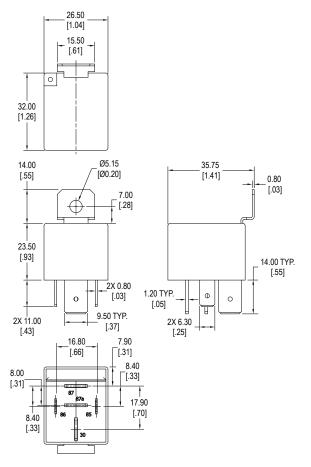




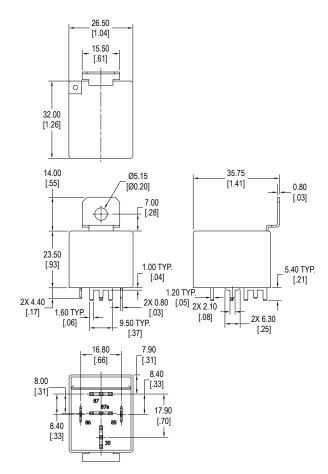


Dimensions

Units = mm



1C Metal Bracket, Quick Connect



1C Metal Bracket, PC Terminals



Schematics & PC Layout

Bottom Views

