

26.5 x 32.0 x 33.5 mm

#### **Features**

- · ISO Sized Automotive Relay
- · Internal Blowout Magnets
- Capable of Switching up to 110VDC
- · Suitable for DC Motor and Lamp Control
- PCB Pin and Quick Connect Mounting Options

# ROHS

## **Contact Data\***

Contact Arrangement	1A = SPST N.O.			
	1C = SPDT			
Contact Rating	60A @ 14VDC, resistive			
	25A @ 36VDC, resistive			
	20A @ 48VDC, resistive			
	15A @ 72VDC, resistive			
	10A @ 90VDC, resistive			
	7A @ 110VDC, resistive			

Contact Resistance	< 50 milliohms initial		
Contact Material	AgSnO <sub>2</sub>		
Maximum Switching Power	630W		
Maximum Switching Voltage	110VDC		
Maximum Switching Current	Make: 120A@14VDC for 3 seconds		
	Break : 60A		

## Coil Data\*

	oltage )C	Coil Resistance Ω +/- 10%	Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
			70% of rated	10% of rated			
Rated	Max	1.6W	voltage	voltage			
12	15.6	90	7.8	1.2			
24	31.2	360	15.6	2.4	1.6W	15	15
48	62.4	1440	33.6	4.8			

## General Data\*

Electrical Life @ rated lo	ad	100K cycles, average			
Mechanical Life		500K 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	Functional	42m/s <sup>2</sup> (4.4G)			
	Destructive	288m/s <sup>2</sup> (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		65g			

<sup>\*</sup> 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.

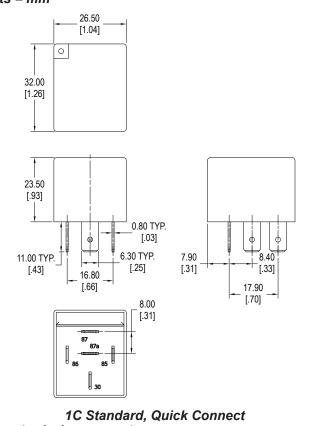


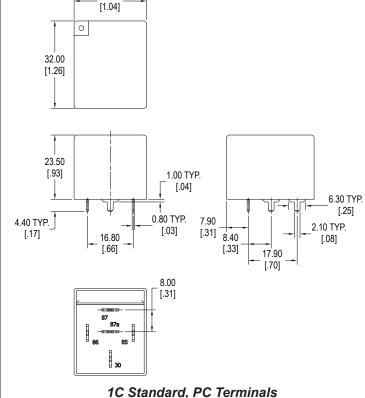
# **Ordering Information**

1. Series	A2K	1A	S	Q	12VDC	1.6	R
A2K standard A2KM 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 48VDC							
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 3 ** Consult factory if other values are needed							

#### **Dimensions**

#### Units = mm



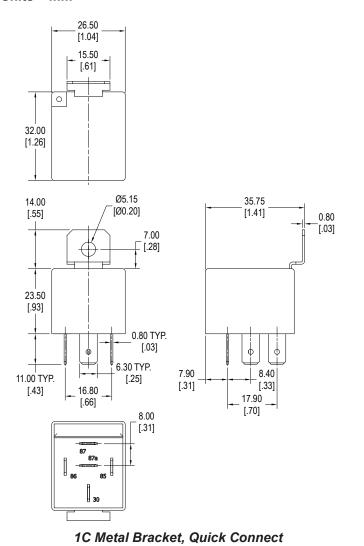


26.50



# **Dimensions**

#### Units = mm



26.50 [1.04] 15.50 [.61] 32.00 [1.26] 14.00 35.75 Ø5.15 [1.41] [.55] [Ø0.20] 0.80 [.03] 7.00 [.28] 23.50 1.00 TYP. [.93] [.04] 6.30 TYP. [.25] 0.80 TYP. 7.90 [.31] + 8.40 16.80 [.03] 2.10 TYP. 4.40 TYP. [.66] [.17] [80.] [.33] 17.90 [.70] 8.00 [.31] 87a



# Schematics & PC Layout

#### **Bottom Views**

