



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



Contact Data*

Contact Arrangement	1A = SPST N.O. 1C = SPDT	Contact Resistance	< 50 milliohms initial
Contact Rating	60A @ 14VDC, resistive 25A @ 36VDC, resistive 20A @ 48VDC, resistive 15A @ 72VDC, resistive 10A @ 90VDC, resistive 7A @ 110VDC, resistive	Contact Material	AgSnO ₂
		Maximum Switching Voltage	110VDC
		Maximum Switching Current	Make : 120A@14VDC for 3 seconds Break : 60A

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		70% of rated voltage	10% of rated voltage			
12	15.6	90	7.8	1.2	1.6W	15	15
24	31.2	360	15.6	2.4			
48	62.4	1440	33.6	4.8			

General Data*

Electrical Life @ rated load	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 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	65g

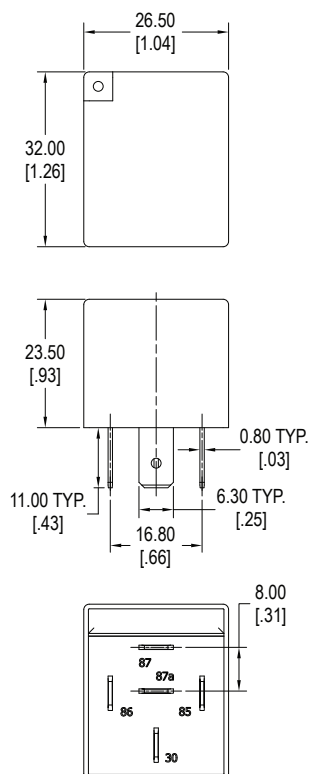
* Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application. 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" terminal R = Resistor (680Ω for 12VDC; 2700Ω for 24VDC) ** Consult factory if other values are needed							

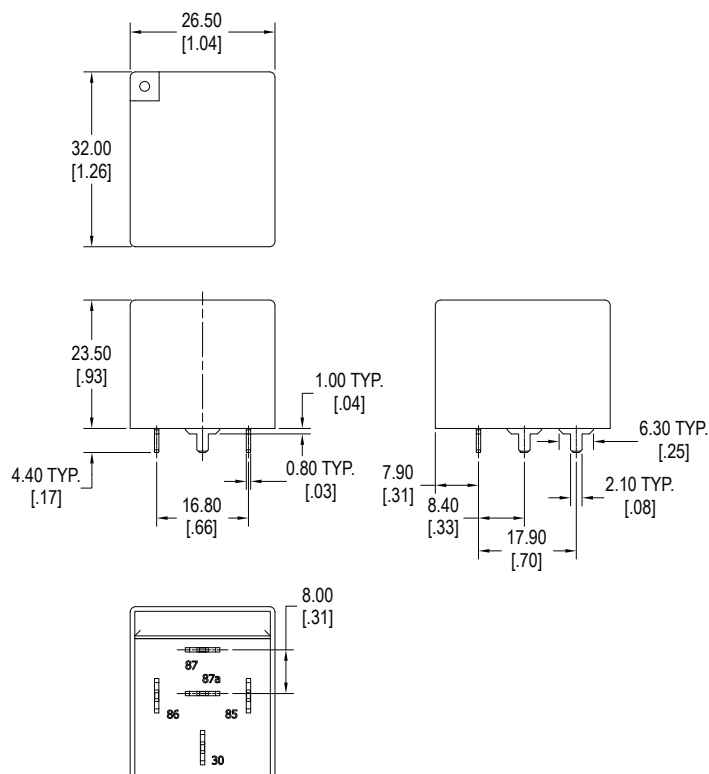
Dimensions

Units = mm



1C Standard, Quick Connect

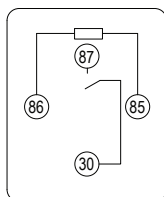
Dimensions are shown for reference purposes only.
Specifications and availability subject to change without notice.
A2K Rev E 04/2024



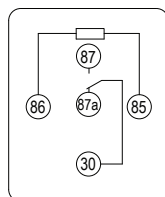
1C Standard, PC Terminals

Schematics & PC Layout

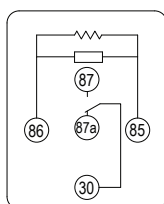
Bottom Views



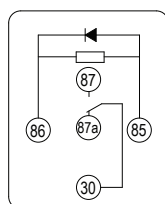
1A



1C



1C with Resistor



1C with Diode

