



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

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 ₂ | | |
| Maximum Switching Power | 630W | | |
| 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) 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 | | |

General Data*

| E | | 40016 | | |
|-------------------------------------|--------------------|---|--|--|
| 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 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.

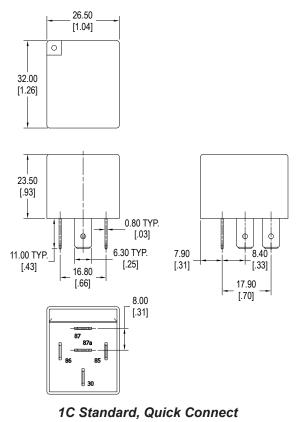


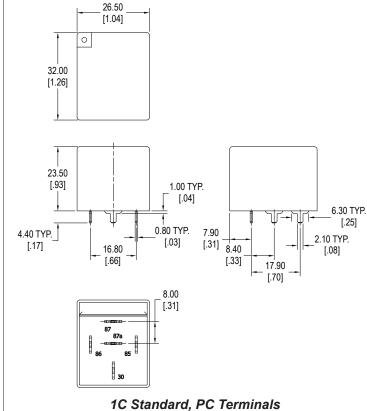
Ordering Information

| 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 | | | | | | | |
| 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

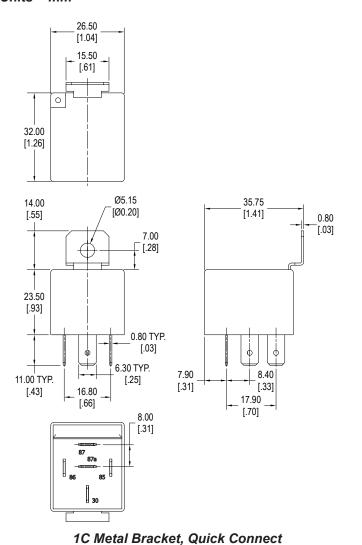






Dimensions

Units = mm



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

