



RoHS Compliant

A5

25.8 x 20.5 x 20.8 mm

Features

- Switch capacity up to 40A @ 14VDC
- Small size and light weight
- PCB pin mounting available
- Suitable for automobile and lamp accessories
- Two footprint styles available
- American & European PC layout styles available

Contact Data*

| | |
|---------------------|--|
| Contact Arrangement | 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT |
| Contact Rating | 1A : 40A @ 14VDC, 20A @ 120VAC, 15A @ 28VDC 1B : 30A @ 14VDC, 20A @ 120VAC, 15A @ 28VDC 1C : 40A @ 14VDC N.O.; 30A @ 14VDC N.C. : 20A@120VAC, 15A @ 28VDC |

| | |
|-----------------------|------------------------|
| Contact Resistance | < 50 milliohms initial |
| Contact Material | AgSnO ₂ |
| Max Switching Power | 360W |
| Max Switching Voltage | 75VDC, 380VAC |
| Max Switching Current | 40A |

Coil Data*

| Coil Voltage VDC | | Coil Resistance Ω +/- 10% | | Pick Up Voltage VDC (max) 70% of rated voltage | Release Voltage VDC (min) 10% of rated voltage | Coil Power W | Operate Time ms | Release Time ms |
|------------------|------|---------------------------|-------|---|---|--------------|-----------------|-----------------|
| Rated | Max | 1.6W | 1.9W | | | | | |
| 9 | 11.7 | 50.6 | 42.6 | 6.30 | .9 | 1.60 or 1.90 | 5 | 3 |
| 12 | 15.6 | 90.0 | 75.8 | 8.40 | 1.2 | | | |
| 24 | 31.2 | 360.0 | 303.2 | 16.80 | 2.4 | | | |

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 Contact to Contact | 750V rms min. @ sea level initial 500V rms min. @ sea level initial |
| Shock Resistance | 200m/s ² for 11 ms |
| Vibration Resistance | 1.27mm double amplitude 10~40Hz |
| Terminal (Copper Alloy) Strength | 10N |
| Operating Temperature | -40°C to +85°C |
| Storage Temperature | -40°C to +155°C |
| Solderability | 260°C for 5 s |
| Weight | 19g open, 21g covered |

* 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.

A5

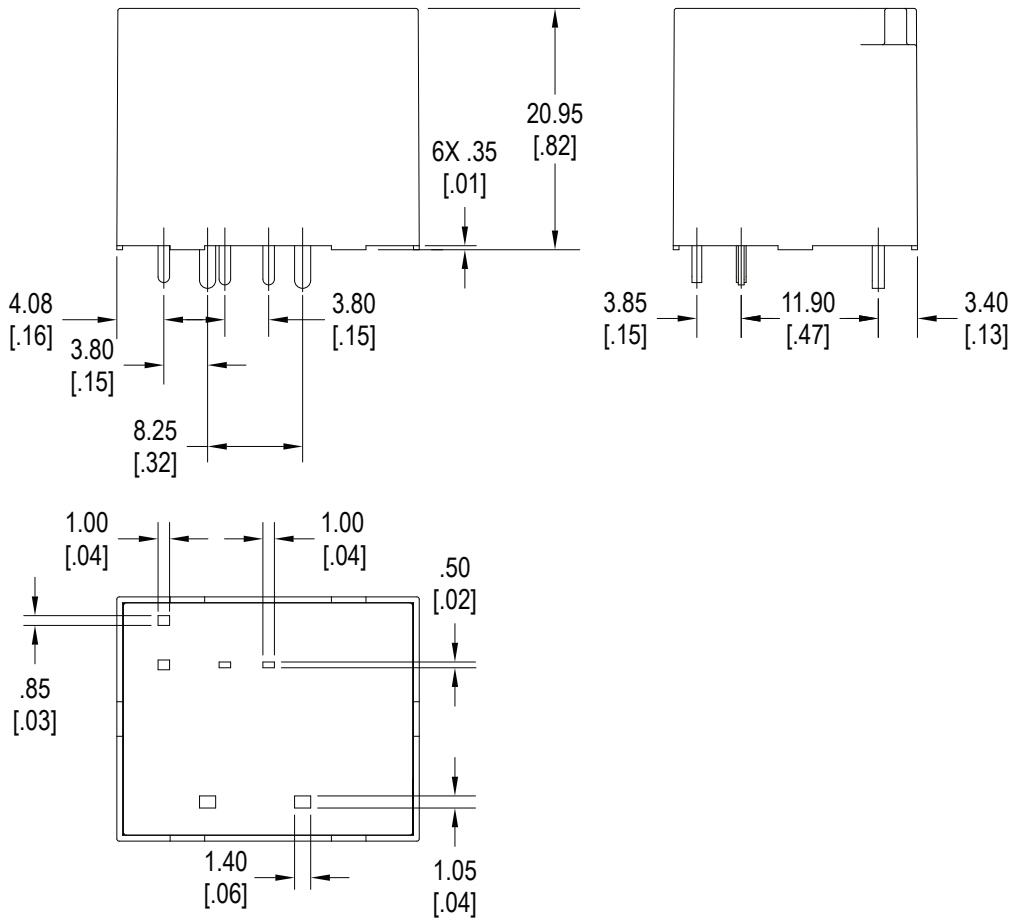
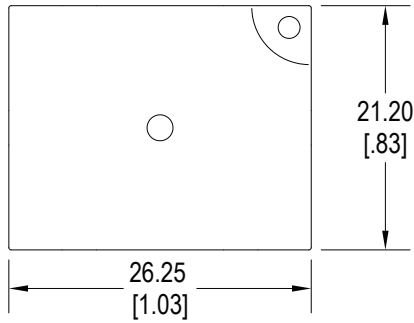


Ordering Information

| | | | | | | |
|---|----|----|---|-------|-----|---|
| 1. Series | A5 | 1A | S | 12VDC | 1.6 | U |
| A5 | | | | | | |
| 2. Contact Arrangement | | | | | | |
| 1A = SPST N.O. | | | | | | |
| 1B = SPST N.C. | | | | | | |
| 1C = SPDT | | | | | | |
| 3. Sealing Option | | | | | | |
| O = Open frame | | | | | | |
| S = Sealed Standard PC layout | | | | | | |
| E = Sealed European PC layout | | | | | | |
| 4. Coil Voltage | | | | | | |
| 9VDC | | | | | | |
| 12VDC | | | | | | |
| 24VDC | | | | | | |
| 5. Coil Power | | | | | | |
| 1.6 = 1.6W | | | | | | |
| 1.9 = 1.9W | | | | | | |
| 6. Contact Material | | | | | | |
| Blank = AgSnO ₂ | | | | | | |
| U = AgSnO ₂ In ₂ O ₃ | | | | | | |

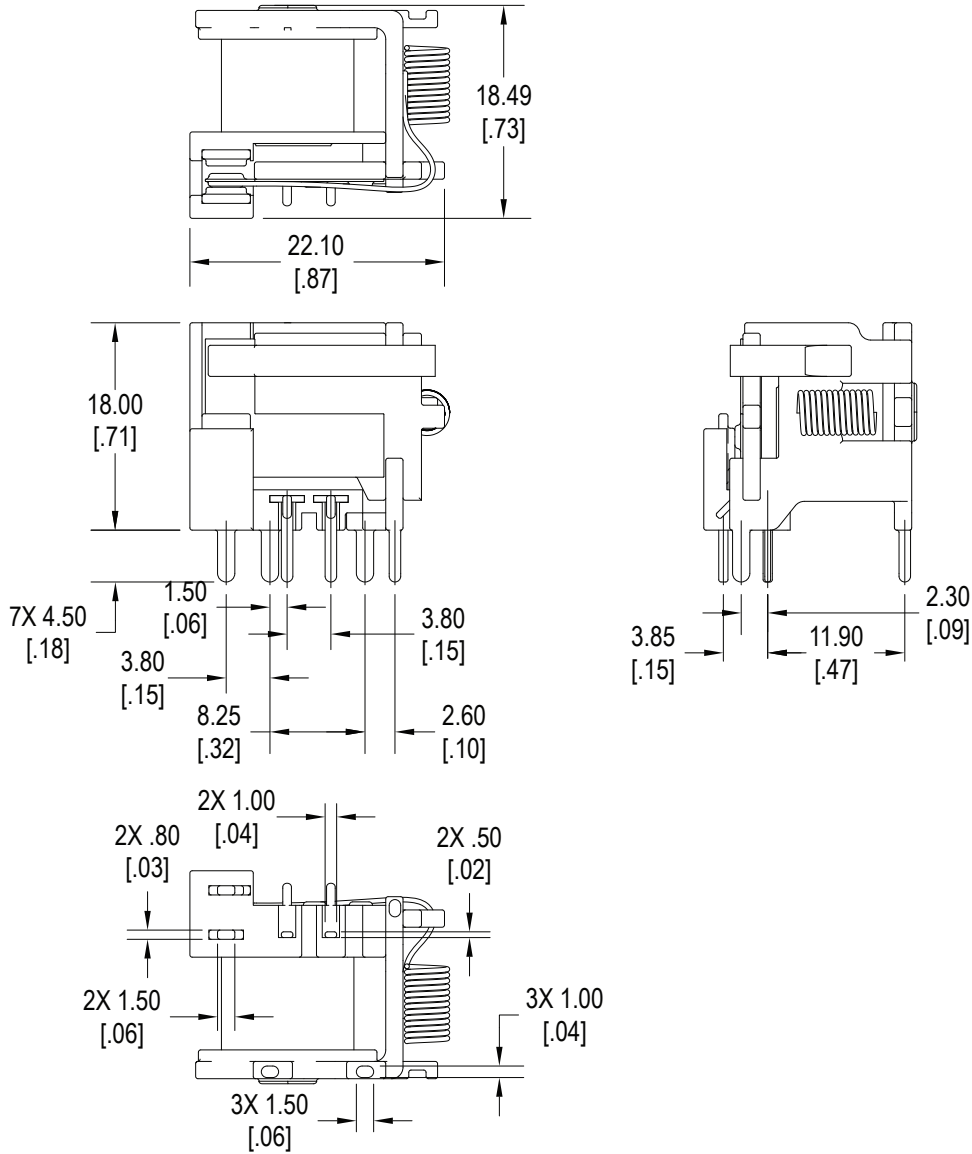
Dimensions - Sealed Standard

Units = mm



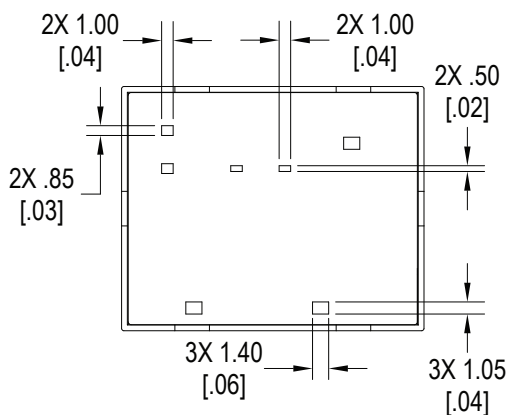
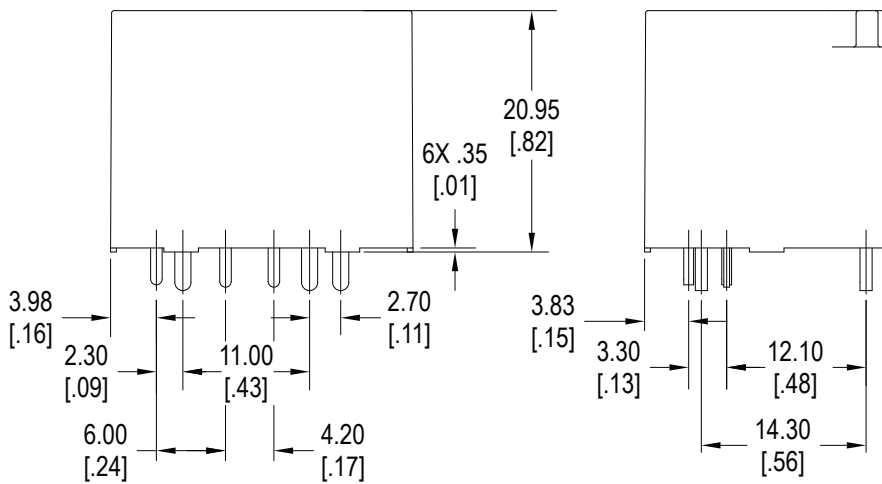
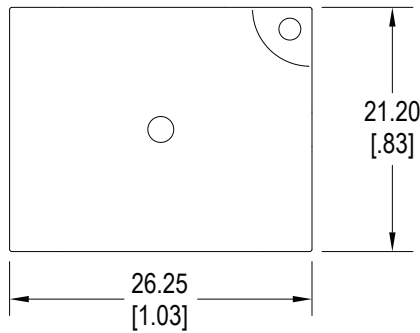
Dimensions - Open Frame

Units = mm



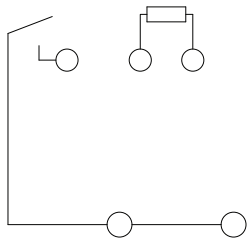
Dimensions - European

Units = mm

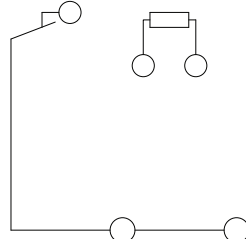


Schematics & PC Layouts

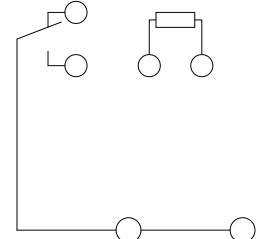
Bottom Views



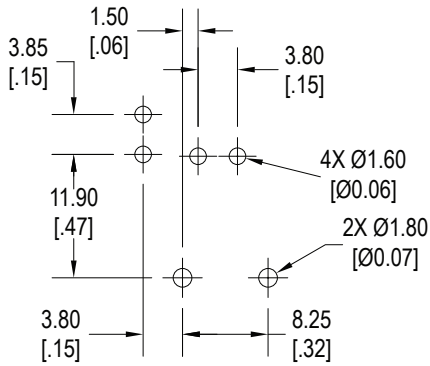
1A



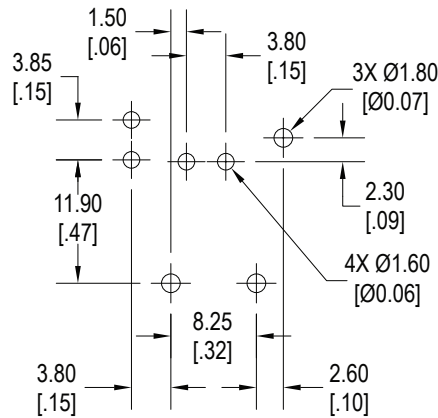
1B



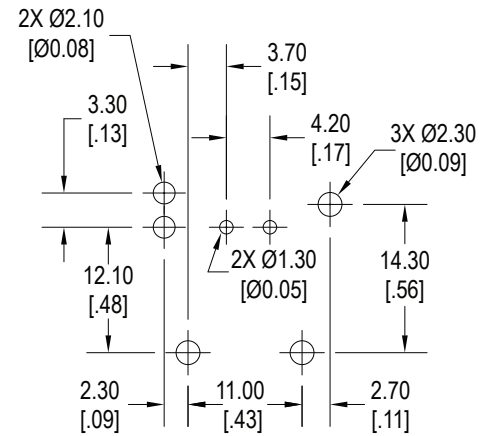
1C



Standard



Open Frame



European