


FEATURES

- Subminiature Design
- 10 Amps at 120VAC, 20 Amps at 14VDC
- 1/2 HP at 125VAC
- TV-5 Rating
- Designed for Automotive and Power Applications


UL / CUL Ratings

| | | |
|--------------------------------|----------------|------|
| Contact Form | 1 Form C, SPDT | |
| Rated Load | Voltage | Amps |
| NO, Resistive, 6K cycles, 40°C | 120VAC | 10A |
| | 14VDC | 20A |
| NC, Resistive, 6K cycles, 40°C | 14VDC | 10A |
| Motor Load | 125VAC, 1/2hp | |
| TV Rating | 120VAC, TV-5 | |

CHARACTERISTICS

| | |
|-------------------------|-----------------------------------|
| Insulation Resistance | 100MΩ min. at 500 VDC |
| Dielectric Strength | 500V rms, between open contacts |
| | 500V rms, between coil & contacts |
| Surge Withstand Voltage | 1500V, between open contacts |
| Power Consumption | 0.6W, 0.8W |
| Terminal Strength | 10N |
| Solderability | 260°C 5 s ± 0.5 s |
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -40°C to 155°C |
| Shock Resistance | 100 m/s ² 11 ms |
| Vibration Resistance | 10-40 Hz double amplitude 1.5mm |
| Weight | 6 g |

CONTACT DATA

| | |
|----------------------------|---|
| Maximum Switching Power | 280W, 1200VA |
| Maximum Switching Voltage | 277VAC, 48VDC |
| Maximum Switching Current | 20A |
| Material | AgSnO ₂ |
| Initial Contact Resistance | 50 mΩ max. |
| Service Life | Mechanical 1 x 10 ⁷ operations |
| | Electrical 1 x 10 ⁵ operations |

ORDERING INFORMATION

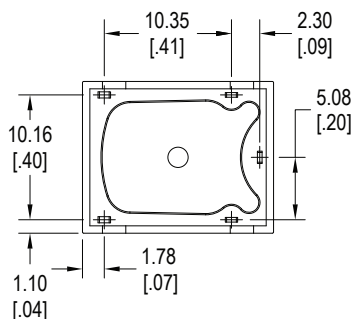
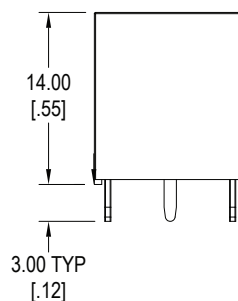
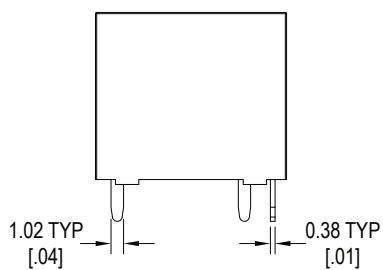
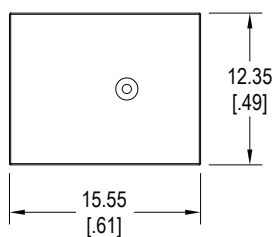
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|-------------------|--|-----|-----|---|-----|---|----|
| Example | PC236 | -1C | -12 | S | 0.8 | F | -X |
| Model: | PC236 | | | | | | |
| Contact Form | 1C | | | | | | |
| Coil Voltage | 9 = 9VDC 12 = 12VDC 24 = 24VDC | | | | | | |
| Contact Material | Nil = AgSnO ₂ | | | | | | |
| Enclosure | S = Sealed C = Dust Cover | | | | | | |
| Coil Power | Nil = 0.6W 0.8 = 0.8W | | | | | | |
| Insulation System | Nil = Class B (125°C) F = Class F (155°C) | | | | | | |
| RoHS Compliant: | X = RoHS Compliant | | | | | | |

Values can change due to the switching frequency, desired reliability levels, environmental conditions, and in-rush current levels. It is recommended to test to actual load conditions for the application. It is the users 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.

COIL DATA

| Coil Voltage | | Resistance (Ohms ± 10%) | | Pick Up Voltage Max. VDC | Release Voltage Min. VDC | Coil Power W | Operate Time ms | Release Time ms |
|--------------|---------|-------------------------|-----|--------------------------|--------------------------|--------------|-----------------|-----------------|
| Rated | Maximum | .6W | .8W | | | | | |
| 9 | 11.7 | 135 | 102 | 6.75 | .9 | .60 .80 | 10 | 5 |
| 12 | 15.6 | 240 | 180 | 9.00 | 1.2 | | | |
| 24 | 31.2 | 960 | 720 | 18.00 | 2.4 | | | |

DIMENSIONS mm (inches)



SCHEMATICS & PC LAYOUT Bottom Views

