

AZ9741

40 AMP MINI-ISO AUTOMOTIVE RELAY

FEATURES

- PCB terminals
- 40 Amp contact rating
- High operating temperature (125°C)
- Resistor or diode parallel to coil available
- Epoxy sealed versions available
- SPST (1 Form A), SPDT (1 Form C)
- ISO/TS 16949, ISO14001



CONTACTS

| | |
|--------------------|---|
| Arrangement | SPST (1 Form A) SPDT (1 Form C) |
| Ratings | Resistive load: Max. switched power: 630 W (SPST) 630 W (N.O.) 473 W (N.C.) Max. switched current: 40 A (SPST) 40 A (N.O.) 30 A (N.C.) Max. switched voltage: 75 VDC |
| Material | Silver tin oxide |
| Resistance | < 100 milliohms initially (6V, 1 A voltage drop method) |

COIL

| | |
|--|--------------------------------------|
| Power At Pickup Voltage (typical) | 0.68 W |
| Max. Continuous Dissipation | 4.8 W at 20°C (68°F) |
| Temperature Rise | 75°C (135°F) at nominal coil voltage |
| Temperature | Max. 200°C (392°F) |

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.

GENERAL DATA

| | |
|--|--|
| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 40 A 14 VDC Res. |
| Operate Time (max.) | 7 ms at nominal coil voltage |
| Release Time (max.) | 5 ms at nominal coil voltage |
| Dielectric Strength (at sea level for 1 min.) | 500 Vrms coil to contact 500 Vrms contact to contact |
| Insulation Resistance | 100 megohms min. at 500 VDC, 20°C 50% RH |
| Dropout | Greater than 10% of nominal coil voltage |
| Ambient Temperature Operating Storage | -55°C (-67°F) to 125°C (257°F) -55°C (-67°F) to 200°C (392°F) |
| Vibration | 0.062" DA at 10-40 Hz |
| Shock | 15 g |
| Enclosure | P.B.T. polyester |
| Terminals | Tinned copper alloy, P.C. |
| Max. Solder Temp. | 270°C (518°F) |
| Max. Solder Time | 5 seconds |
| Max Solvent Temp. | 80°C (176°F) |
| Max Immersion Time | 30 seconds |
| Weight | 31 grams |

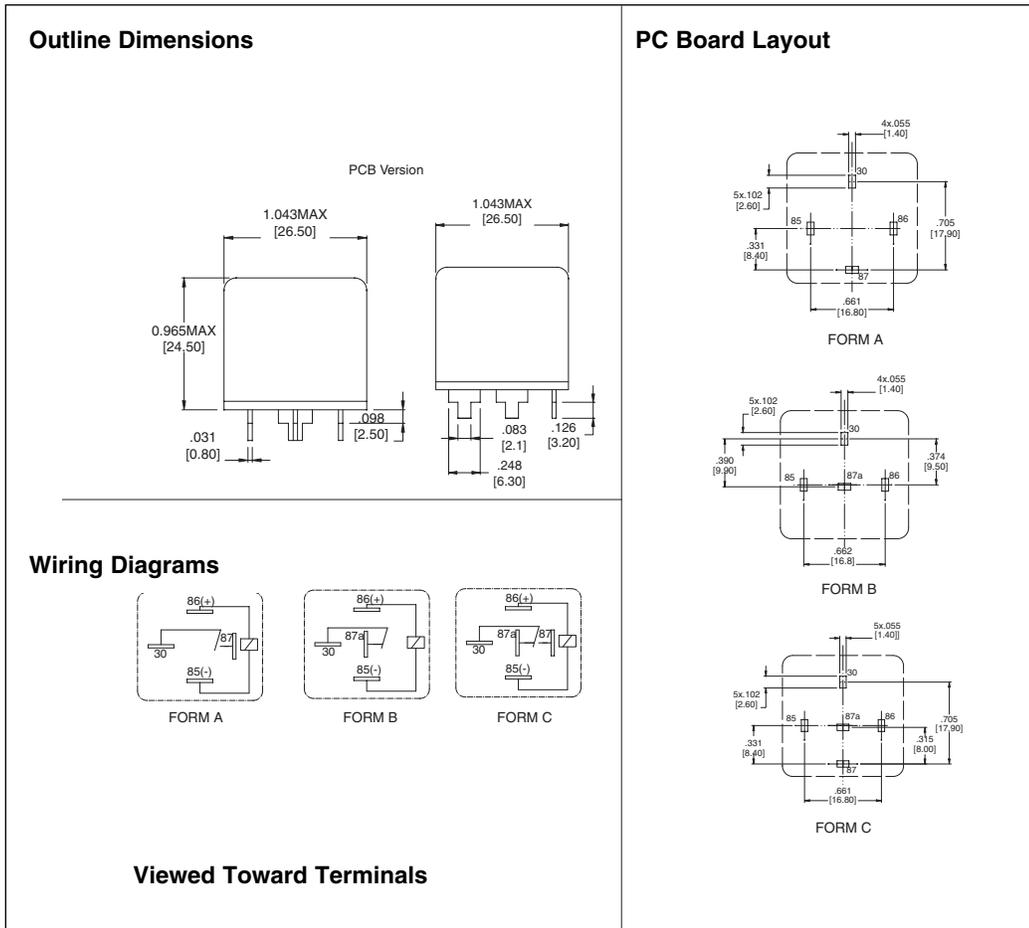
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RELAY ORDERING DATA

| COIL SPECIFICATIONS | | | | ORDER NUMBER* | |
|---------------------|------------------|---------------------|----------------------------|---------------|---------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | SPST | SPDT |
| 6 | 3.9 | 10.1 | 22.5 | AZ9741-1A-6D | AZ9741-1C-6D |
| 12 | 7.8 | 20.2 | 90 | AZ9741-1A-12D | AZ9741-1C-12D |
| 24 | 15.6 | 40.5 | 360 | AZ9741-1A-24D | AZ9741-1C-24D |

*Add suffix "E" for epoxy sealed version. Add suffix "R" for resistor across coil (6V=180 ohms, 12V=680 ohms, 24V=2700 ohms). Add suffix D2 for diode across coil (anode on #85).

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "