

AZ983

80 AMP MINI-ISO AUTOMOTIVE RELAY

FEATURES

- PCB terminals
- 80 Amp contact rating
- High momentary carry current
- High operating temperature (85°C)
- SPST N.O. (1 Form A), SPDT (1 Form C), SPST N.C. (1 Form B)
- ISO/TS 16949, ISO14001
- Tested in accordance with SAE J2544
- Epoxy sealed version available



CONTACTS

| | |
|--------------------|--|
| Arrangement | SPST (N.O.) (1 Form A) SPDT (1 Form C), SPST (N.C.) (1 Form B) |
| Ratings | Resistive load: Max. switched power: 1120 W (SPST) Form A 840 W (N.O.) Form C 840 W (N.C.) Form C, Form B Max. switched current: 80 A (SPST) Form A 60 A (N.O.) Form C 60 A (N.C.) Form C, Form B Max. switched voltage: 75 VDC |
| Material | Silver tin oxide |
| Resistance | < 50 milliohms initially (24 V, 1 A voltage drop method) |

COIL

| | |
|-----------------------------|--------------------------------------|
| Power | |
| At Pickup Voltage (typical) | 0.76 W |
| Max. Continuous Dissipation | 3.0 W at 20°C (68°F) |
| Temperature Rise | 68°C (122°F) at nominal coil voltage |
| Temperature | Max. 155°C (311°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 80 A 14 VDC Res. |
| Operate Time (typical) | 7 ms at nominal coil voltage |
| Release Time (typical) | 5 ms at nominal coil voltage (with no coil suppression) |
| 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 | -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F) |
| Vibration | 0.062" DA at 10-55 Hz |
| Shock | 10 g |
| Enclosure | PA (UL94: V-0) |
| Terminals | Copper alloy PCB |
| 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 | 40 grams |



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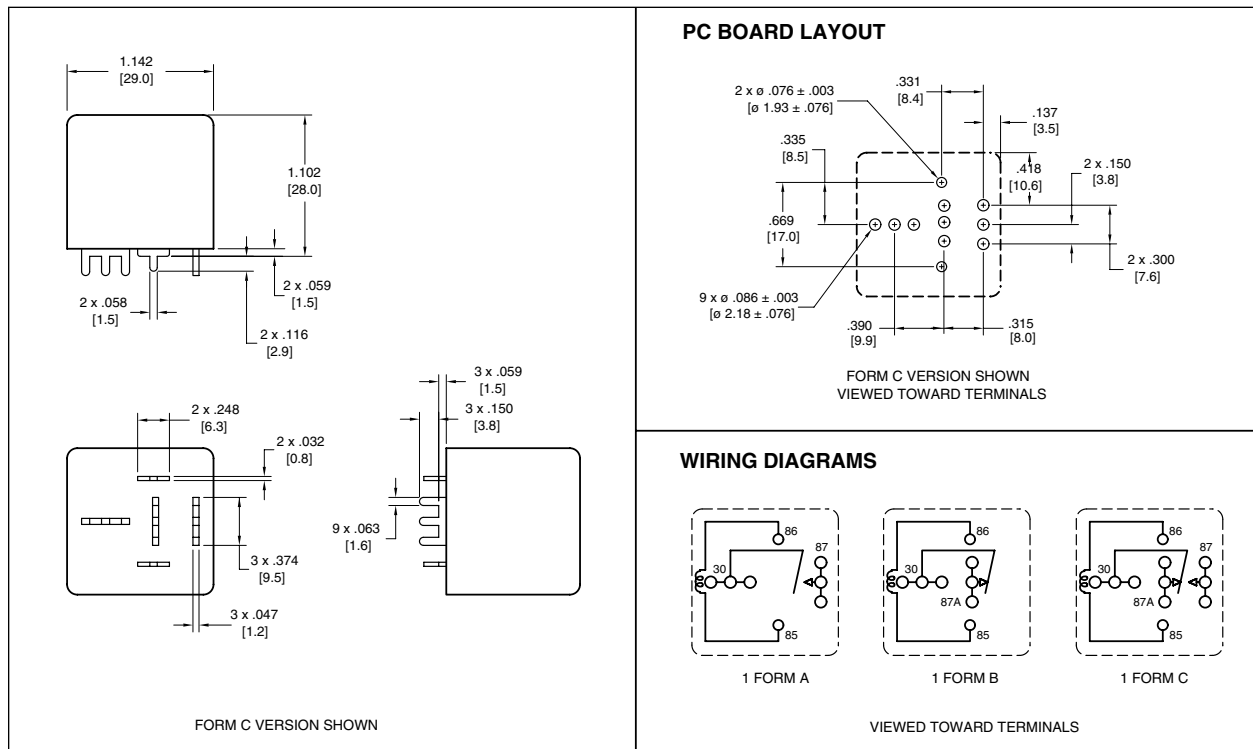
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RELAY ORDERING DATA

| COIL SPECIFICATIONS | | | | ORDER NUMBER* | |
|---------------------|------------------|---------------------|----------------------------|---------------|--------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | SPST (N.O.) | SPDT |
| 6 | 3.9 | 7.8 | 20 | AZ983-1A-6D | AZ983-1C-6D |
| 12 | 7.8 | 15.6 | 80 | AZ983-1A-12D | AZ983-1C-12D |
| 24 | 15.6 | 31.2 | 320 | AZ983-1A-24D | AZ983-1C-24D |

*For SPST (N.C.) (1 Form B) relay, substitute "-1B" for "-1A". Add suffix "R" for resistor in parallel with coil. Resistor values: 6V: 180 ohms, 12V: 680 ohms, 24V: 2700 ohms. Add suffix "D" for diode across coil option ("+" pole of power supply at terminal #86). Add Suffix "E" for epoxy sealed version.

MECHANICAL DATA



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



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