

AZ9841

40 AMP 280-ISO AUTOMOTIVE RELAY

FEATURES

- Up to 40 Amp switching in a compact size
- SPST (1 Form A), SPDT (1 Form C)
- Vibration and shock resistant
- 35 A Continuous N.O., Rating at 35°C
- ISO/TS 16949, ISO9001



CONTACTS

| | |
|--------------------|---|
| Arrangement | SPST (1 Form A) SPDT (1 Form C) |
| Ratings | Resistive load: Max. switched power: 560W Max. switched current: 40A (N.O.) 30A (N.C.) Max. switched voltage: 75VDC Rated load: N.O. 35A at 14VDC N.C. 25A at 14VDC * If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory. |
| Material | Silver tin oxide |
| Resistance | < 100 milliohms initially (6VDC, 1A voltage drop method) |

GENERAL DATA

| | |
|--|---|
| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ |
| Operate Time (max.) | 5ms max. at nominal coil voltage |
| Release Time (max.) | 2ms max. at nominal coil voltage |
| Dielectric Strength (at sea level for 1 min.) | 500VAC coil to contact 500VAC between open contacts |
| Insulation Resistance | 100 megohms min. at 20°C, 500 VDC 50% RH |
| Dropout | Greater than 10% of nominal coil voltage |
| Ambient Temperature Operating Storage | At nominal coil voltage -40°C (-40°F) to 125°C (257°F) -40°C (-40°F) to 105°C (211°F) |
| Vibration | 0.062" DA at 10-55 Hz |
| Shock | 10 g |
| Enclosure | P.B.T. polyester |
| Terminals | Tinned copper alloy |
| Weight | 21 grams |

COIL

| | |
|---|--------------------------------------|
| Power At nominal voltage (typical) | 0.9W -Sensitive 1.3W -Standard |
| Max. Continuous Dissipation | 1.52W / 2.23W at 20°C (68°F) ambient |
| Temperature Rise | 48°C (108°F) at nominal coil voltage |
| Temperature | Max 125°C (257°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.

AMERICAN ZETTLER, INC.

www.azettler.com

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6/15/16

AZ9841

RELAY ORDERING DATA

| SENSITIVE RELAYS | | | | | |
|---------------------|------------------|---------------------|---------------------------------|----------------|----------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER* | |
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance Ohms $\pm 10\%$ | Form A (SPST) | Form C (SPDT) |
| 6 | 3.6 | 7.8 | 40 | AZ9841-1A-6DS | AZ9841-1C-6DS |
| 12 | 7.2 | 15.6 | 160 | AZ9841-1A-12DS | AZ9841-1C-12DS |
| 24 | 14.4 | 31.2 | 640 | AZ9841-1A-24DS | AZ9841-1C-24DS |

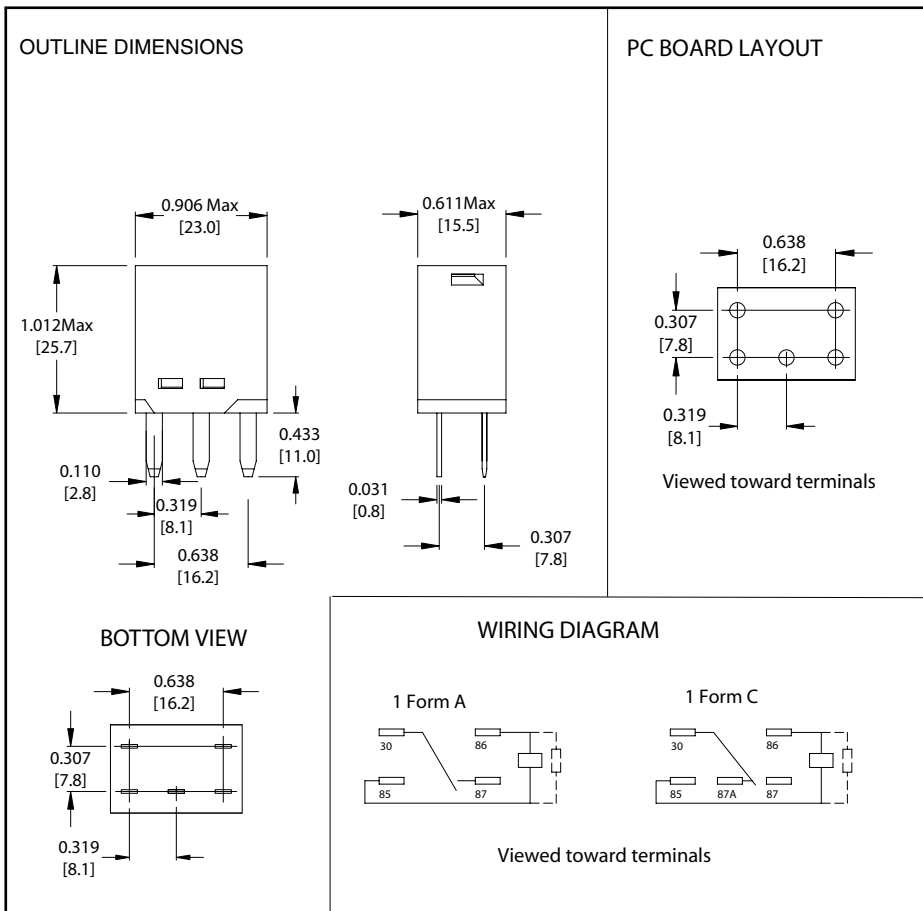
*Add suffix "E" at the end of order number for epoxy sealed version. Add suffix "R" for a 680 ohm resistor in parallel with coil.

RELAY ORDERING DATA

| STANDARD RELAYS | | | | | |
|---------------------|------------------|---------------------|---------------------------------|---------------|---------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER* | |
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance Ohms $\pm 10\%$ | Form A (SPST) | Form C (SPDT) |
| 6 | 3.6 | 7.8 | 27 | AZ9841-1A-6D | AZ9841-1C-6D |
| 12 | 7.2 | 15.6 | 109 | AZ9841-1A-12D | AZ9841-1C-12D |
| 24 | 14.4 | 31.2 | 436 | AZ9841-1A-24D | AZ9841-1C-24D |

*Add suffix "E" at the end of order number for epoxy sealed version. Add suffix "R" for a 680 ohm resistor in parallel with coil. Add suffix "D1" or "D2" for diode in parallel with coil (D1 pins - anode 85, cathode 86), (D2 pins - cathode 85, anode 86).

MECHANICAL DATA



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

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