

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.

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RELAY ORDERING DATA

SENSITIVE RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	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

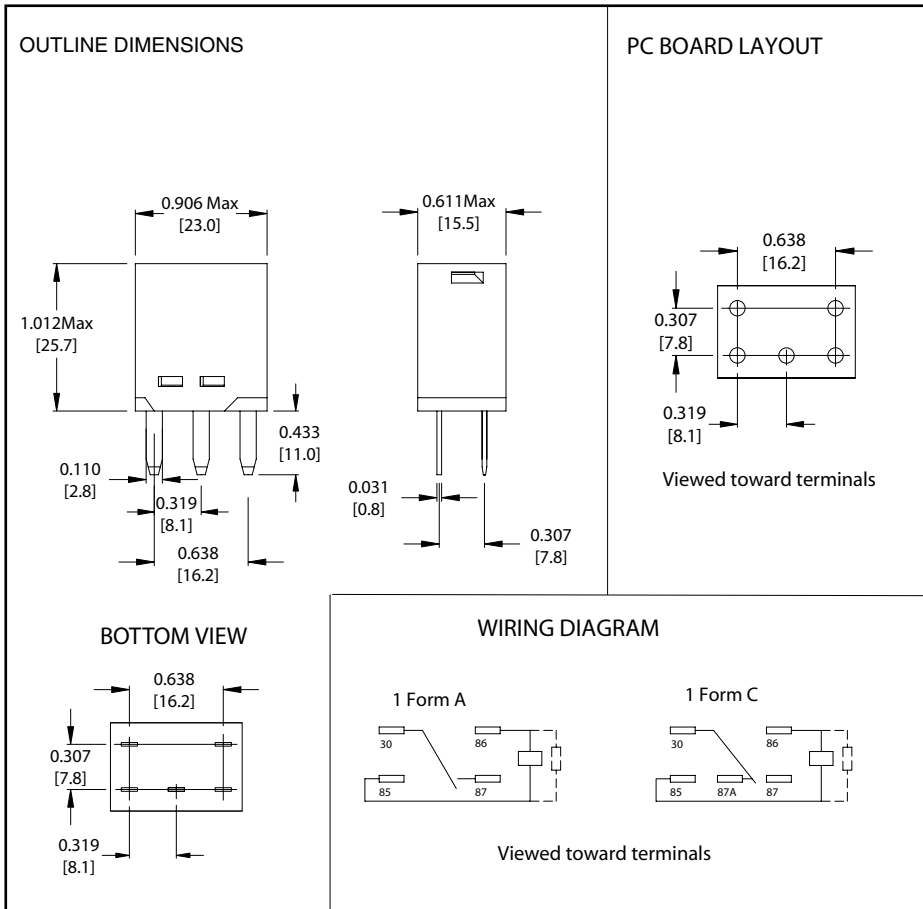
*Add suffix "E" at the end of order number for epoxy sealed version. Add suffix "R" for a 680 ohm resistor in parallel with coil.

RELAY ORDERING DATA

STANDARD RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	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.

MECHANICAL DATA



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