

# 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

<b>Arrangement</b>	SPST (1 Form A) SPDT (1 Form C)
<b>Ratings</b>	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.
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	< 100 milliohms initially (6VDC, 1A voltage drop method)

### GENERAL DATA

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

### COIL

<b>Power</b> <b>At nominal voltage</b> <b>(typical)</b>	0.9W -Sensitive 1.3W -Standard
<b>Max. Continuous</b> <b>Dissipation</b>	1.52W / 2.23W at 20°C (68°F) ambient
<b>Temperature Rise</b>	48°C (108°F) at nominal coil voltage
<b>Temperature</b>	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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6/15/16

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## 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

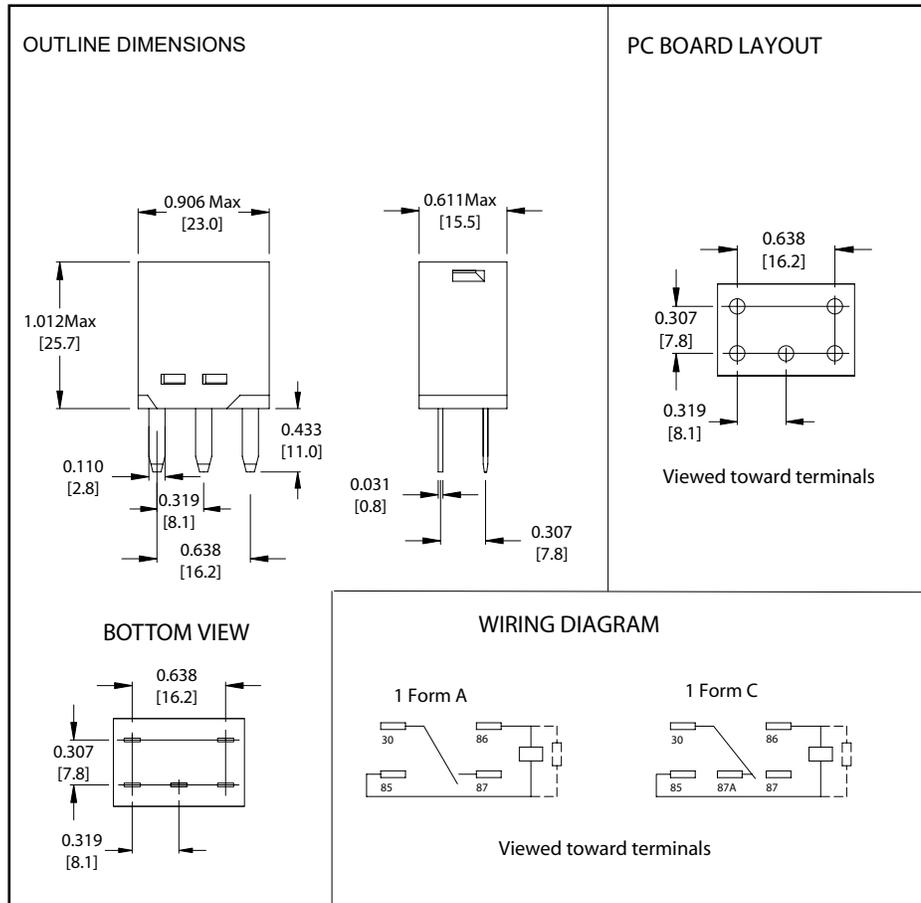
\*Add suffix "E" at the end of order number for epoxy sealed version. Add suffix "R" for a 680 ohm resistor in parallel with coil.

## 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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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.