

# 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
- Epoxy sealed version available



### CONTACTS

<b>Arrangement</b>	SPST (N.O.) (1 Form A) SPDT (1 Form C), SPST (N.C.) (1 Form B)
<b>Ratings</b>	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
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	< 50 milliohms initially (24 V, 1 A voltage drop method)

### COIL

<b>Power</b>	
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
<b>Temperature</b>	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

<b>Life Expectancy</b> Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 80 A 14 VDC Res.
<b>Operate Time (typical)</b>	7 ms at nominal coil voltage
<b>Release Time (typical)</b>	5 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	500 Vrms coil to contact 500 Vrms contact to contact
<b>Insulation Resistance</b>	100 megohms min. at 500 VDC, 20°C 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature</b> Operating Storage	-40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" DA at 10-55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	PA (UL94: V-0)
<b>Terminals</b>	Copper alloy PCB
<b>Max Solder Temp.</b>	270°C (518°F)
<b>Max Solder Time</b>	5 seconds
<b>Max Solvent Temp.</b>	80°C (176°F)
<b>Max Immersion Time</b>	30 seconds
<b>Weight</b>	40 grams

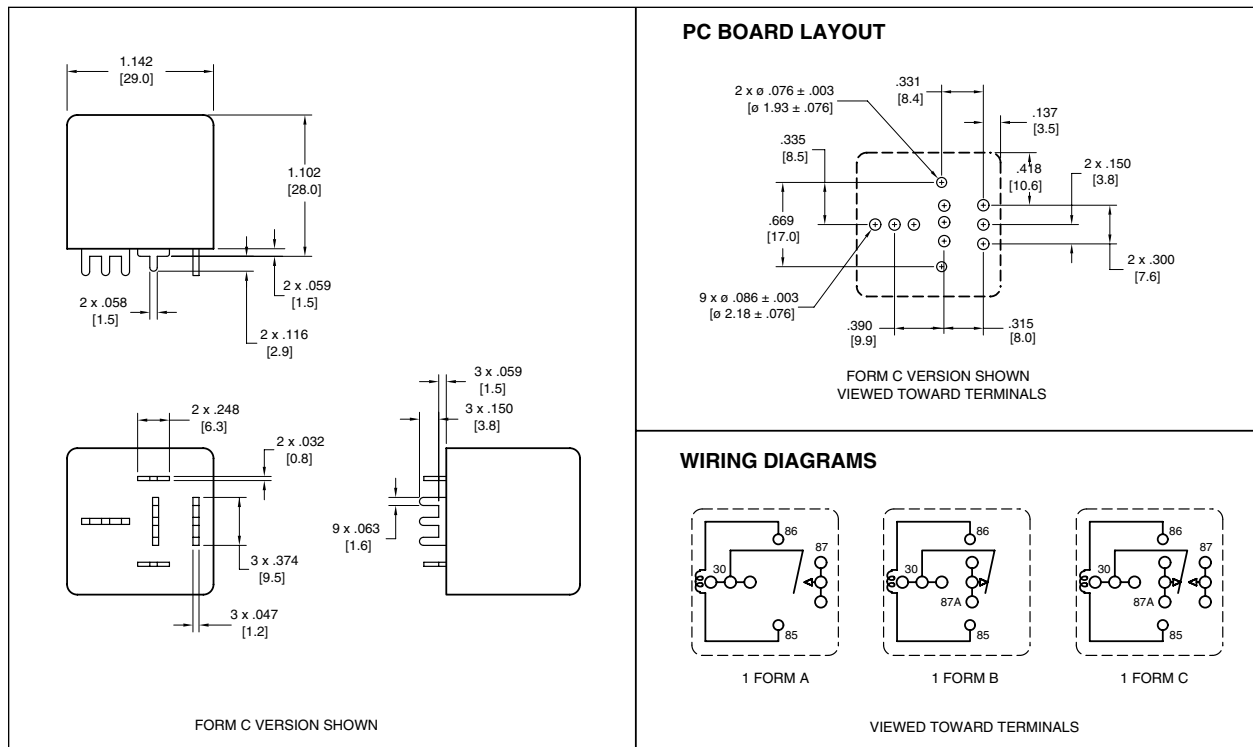
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## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	SPST (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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12/12/12

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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.