

# AZ984

## 20 AMP 280-ISO AUTOMOTIVE RELAY

### FEATURES

- Up to 20 Amp switching in a compact size
- SPST (1 Form A), SPDT (1 Form C)
- Vibration and shock resistant
- Designed for high in-rush applications (120 A)
- Coil suppression available
- ISO/TS 16949, ISO9001, ISO14000



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A) SPDT (1 Form C)
<b>Ratings</b>	Resistive load:  Max. switched power: 270 W Max. switched current: 20 A Max. switched voltage: 40 VDC*  Rated load: 20 A at 13.5 VDC (1 Form A)  * 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>	< 50 milliohms initially (6 V, 1 A voltage drop method)

### COIL

<b>Power At Pickup Voltage (typical)</b>	476 mW
<b>Max. Continuous Dissipation</b>	3.8 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	60°C (108°F) at nominal coil voltage
<b>Max Temperature</b>	180°C (356°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> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>6</sup> 1 x 10 <sup>5</sup> at 20 A 14 VDC Res.
<b>Operate Time (max.)</b>	4 ms max. at nominal coil voltage
<b>Release Time (max.)</b>	1.5 ms max. at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	500 VAC coil to contact 500 VAC 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 180°C (356°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

**AMERICAN ZETTLER, INC.**

[www.azettler.com](http://www.azettler.com)

75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM

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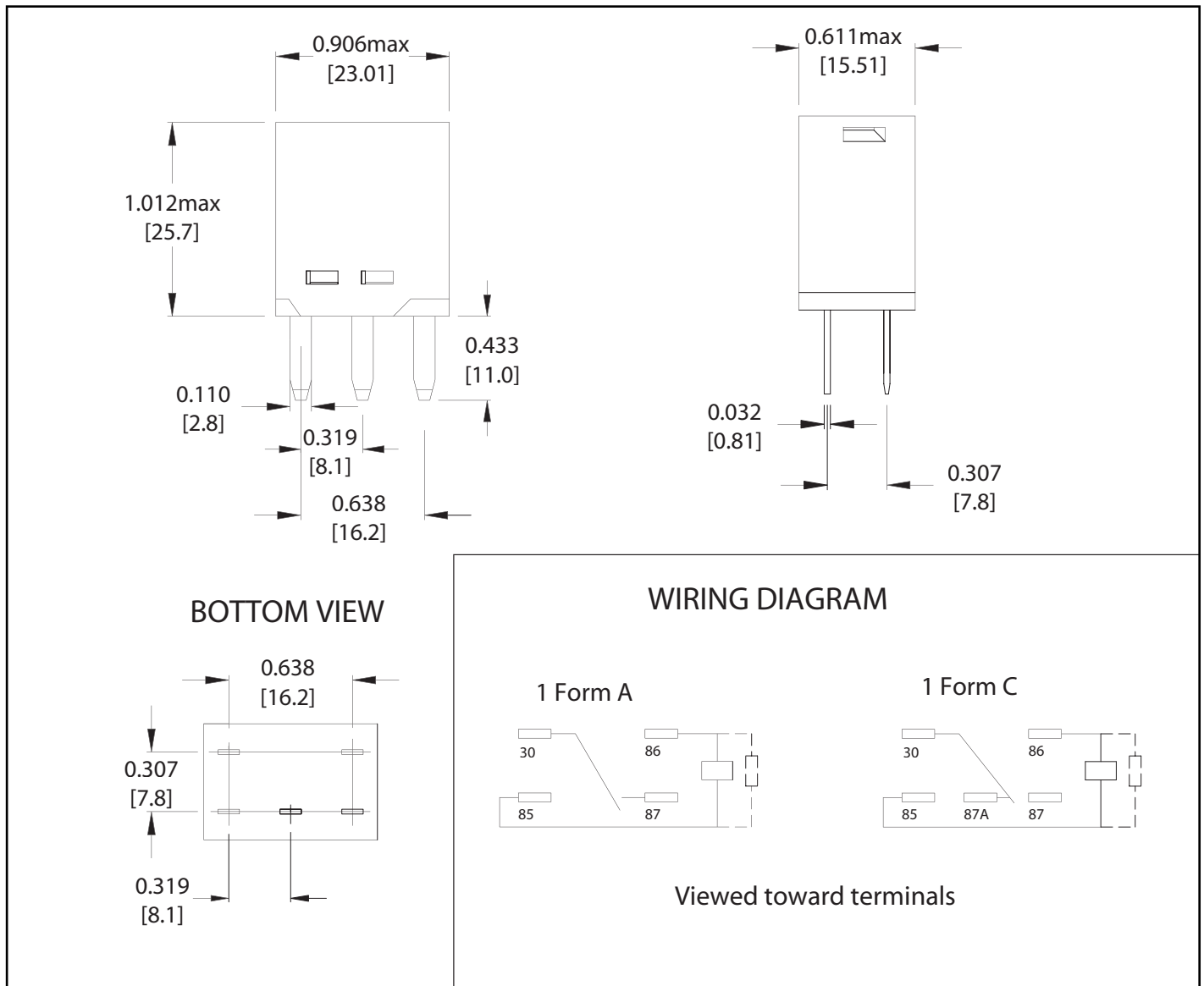
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## RELAY ORDERING DATA

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)
12	7.2	20.4	109	AZ984-1A-12D	AZ984-1C-12D
24	14.4	36	360	AZ984-1A-24D	AZ984-1C-24D

\*Add suffix "R" for a 680 ohm resistor in parallel with coil.

## MECHANICAL DATA



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

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