

# AZ987

## 30 AMP SUBMINIATURE POWER RELAY FOR AUTOMOTIVE USE

### FEATURES

- Low Cost
- Up to 30 Amp switching capability in a compact size
- Small footprint
- 1 Form A and C contacts available
- Vibration and shock resistant
- Designed for high in-rush applications
- Epoxy sealed



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A) SPDT (1 Form C)
<b>Ratings</b>	Resistive load:  Max. switched power: 480 W Max. switched current: 30 A Max. switched voltage: 30 VDC  Rated load: 30 A at 16 VDC
<b>Material</b>	Silver tin oxide, silver nickel (AgNi 0.15)
<b>Resistance</b>	< 50 milliohms initially (6 V, 1 A voltage drop method)

### COIL

<b>Power At Pickup Voltage (typical)</b>	187 mW
<b>Max. Continuous Dissipation</b>	2.6 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	60°C (108°F) at nominal coil voltage
<b>Max Temperature</b>	155°C (311°F)

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>6</sup> 3 x 10 <sup>5</sup> at 20 A 14 VDC Res.
<b>Operate Time</b>	3 ms typical at nominal coil voltage
<b>Release Time</b>	1.5 ms typical 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 between open contacts
<b>Insulation Resistance</b>	100 megohms min. at 20°C, 500 VDC 50% RH
<b>Dropout</b>	Greater than 12.5% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b> <b>Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	6 g at 10-500 Hz
<b>Shock</b>	30 g, 6 ms
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Weight</b>	4 grams

### 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.

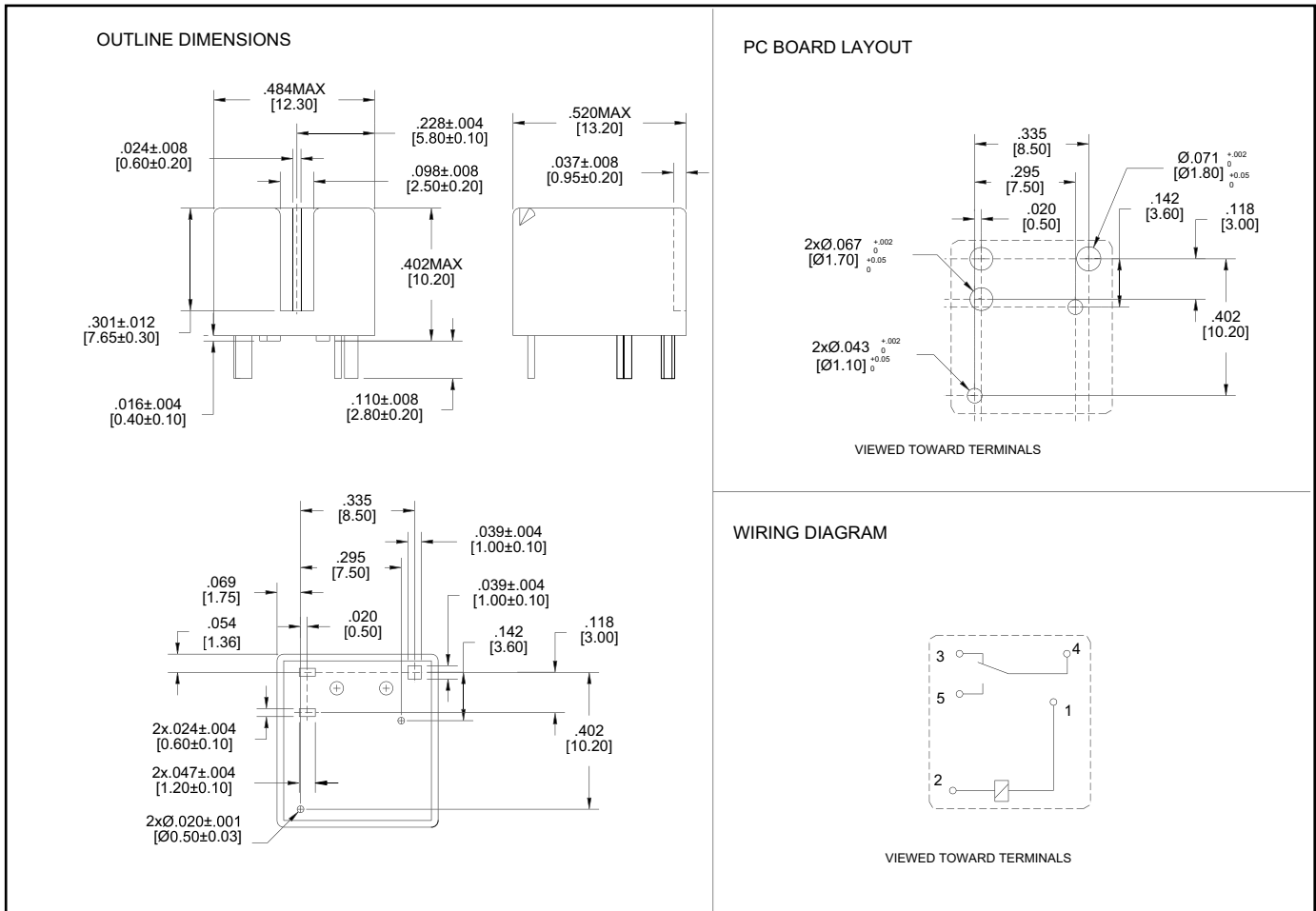
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## RELAY ORDERING DATA

STANDARD RELAYS				ORDER NUMBER*	
COIL SPECIFICATIONS				Form A (SPST)	Form C (SPDT)
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$		
10	5.7	22.0	181	AZ987-1A-10DE	AZ987-1C-10DE
12	6.9	26.0	254	AZ987-1A-12DE	AZ987-1C-12DE

\*Add suffix "T" for silver tin oxide.

## MECHANICAL DATA



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