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# AZ987

## 30 AMP MICRO AUTOMOTIVE RELAY

### FEATURES

- Up to 30 Amp switching capability in a compact size
- Form A and C contacts available (single or twin relay)
- Vibration and shock resistant
- ISO/TS 16949, ISO9001, ISO14000
- Designed for high in-rush applications
- Cost effective
- Single and Dual (Twin) relay versions



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A) DPST (2 Form A) SPDT (1 Form C) DPDT (2 Form C)
<b>Ratings</b>	Resistive load: Max. switched power: 480W Max. switched current: 30A / 25A (N.O. / N.C.) Max. switched voltage: 16VDC  Rated load: 30A at 16VDC
<b>Material</b>	Silver tin oxide (silver nickel available - contact factory)
<b>Resistance</b>	< 50 milliohms initially (6V, 1A voltage drop method)

### COIL

<b>Power At Pickup Voltage (typical)</b>	187mW
<b>Max. Continuous Dissipation</b>	2.6W at 20°C (68°F) ambient
<b>Temperature Rise</b>	34°C (61°F) at nominal coil voltage
<b>Max Temperature</b>	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> 3 x 10 <sup>5</sup> at 20A, 14VDC Res. N.O.
<b>Operate Time (typical)</b>	4ms at nominal coil voltage
<b>Release Time (typical)</b>	2ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	500Vrms coil to contact 500Vrms between open contacts
<b>Insulation Resistance</b>	100 megohms min. at 20°C, 500VDC 50% RH
<b>Dropout</b>	Greater than 12.5% of nominal coil voltage
<b>Ambient Temperature</b> Operating Storage	At nominal coil voltage -40°C (-40°F) to 105°C (221°F) -40°C (-40°F) to 155°C (311°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>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>	4 grams

**AMERICAN ZETTLER, INC.** [www.azettler.com](http://www.azettler.com)

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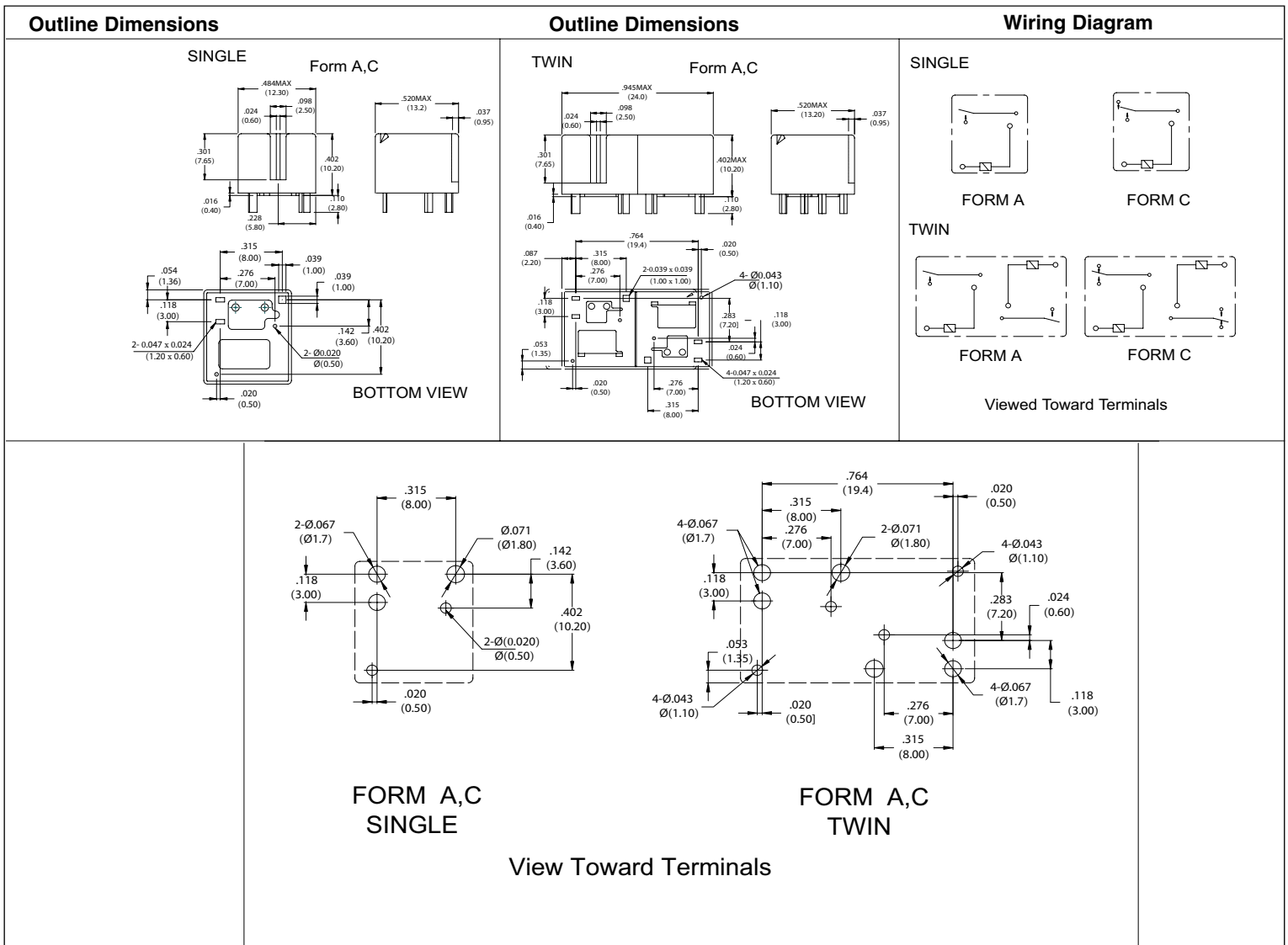
## RELAY ORDERING DATA

STANDARD RELAYS - 1 FORM A, 1 FORM C (SINGLE)					
COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	1 Form A (SPST)	1 Form C (SPDT)
6	3.5	13.2	63	AZ987-1A-6DT	AZ987-1C-6DT
10	5.7	22.0	181	AZ987-1A-10DT	AZ987-1C-10DT
12	6.9	26.0	254	AZ987-1A-12DT	AZ987-1C-12DT

STANDARD RELAYS - 2 FORM A, 2 FORM C (TWIN)					
COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	2 Form A (DPST)	2 Form C (DPDT)
6	3.5	13.2	63	AZ987-2A-6DT	AZ987-2C-6DT
10	5.7	22.0	181	AZ987-2A-10DT	AZ987-2C-10DT
12	6.9	26.0	254	AZ987-2A-12DT	AZ987-2C-12DT

\*Substitute "DET" in place of "DT" for epoxy sealed version.

## MECHANICAL DATA



Dimensions in inches with millimeters in brackets below. Tolerance:  $\pm .010"$

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