### **AZ987**

# 30 AMP MICRO AUTOMOTIVE RELAY

#### **FEATURES**

- Up to 30 Amp switching capability in a compact size
- Form A and C contacts available
- · Vibration and shock resistant
- ISO/TS 16949, ISO9001, ISO14000
- Designed for high in-rush applications
- Cost effective



#### **CONTACTS**

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

#### COIL

Power			
At Pickup Voltage (typical)	187mW		
Max. Continuous Dissipation	2.6W at 20°C (68°F) ambient		
Temperature Rise	34°C (61°F) at nominal coil voltage		
Max Temperature	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**

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 3 x 10 <sup>5</sup> at 20A, 14VDC Res. N.O.		
Operate Time (typical)	4ms at nominal coil voltage		
Release Time (typical)	2ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	500Vrms coil to contact 500Vrms between open contacts		
Insulation Resistance	100 megohms min. at 20°C, 500VDC 50% RH		
Dropout	Greater than 12.5% of nominal coil voltage		
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 105°C (221°F) -40°C (-40°F) to 155°C (311°F)		
Vibration	6 g at 10-500 Hz		
Shock	30 g, 6 ms		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy, P.C.		
Max Solder Temp.	270°C (518°F)		
Max Solder Time	5 seconds		
Max Solvent Temp.	80°C (176°F)		
Max Immersion Time	30 seconds		
Weight	4 grams		

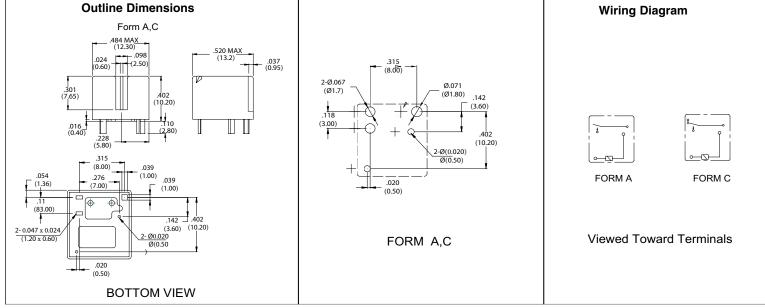
## **AZ987**

#### **RELAY ORDERING DATA**

STANDARD RELAYS - 1 FORM A, 1 FORM C							
COIL SPECIFICATIONS			ORDER NUMBER				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 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		

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

#### **MECHANICAL DATA**



Dimensions in inches with millimeters in brackets below. Tolerance: ± .010"