

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 ⁷ 3 x 10 ⁵ 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

AMERICAN ZETTLER, INC. www.azettler.com

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RELAY ORDERING DATA

STANDARD RELAYS - 1 FORM A, 1 FORM C				ORDER NUMBER	
COIL SPECIFICATIONS				1 Form A (SPST)	1 Form C (SPDT)
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$		
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

Outline Dimensions

Form A,C

BOTTOM VIEW

FORM A,C

Wiring Diagram

FORM A

FORM C

Viewed Toward Terminals

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

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