AZ9871

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
- Epoxy sealed version available
- Designed for high in-rush applications
- Cost effective

CONTACTS

- Single and Dual (Twin) relay versions
- ISO/TS 16949, ISO14001



GENERAL DATA

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Arrangement	SPST (1 Form A) DPST (2 Form A) SPDT (1 Form C) DPDT (2 Form C)	[
Ratings	Resistive load: Max. switched power: 420 W Max. switched current: 30 A / 25A N.O. / N.C. Max. switched voltage: 24 VDC Rated load: 30 A at 14 VDC (Form A) 30/20 A at 14 VDC (Form C)	
Material	Silver tin oxide (silver nickel available - contact factory)	
Resistance	< 50 milliohms initially (3 milliohms at 10A)	

COIL

Power	
At Pickup Voltage (typical)	187 mW
Max. Continuous Dissipation	2.6 W 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.

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10^7 1 x 10^5 at 20 A 14 VDC Res.				
Operate Time	3 ms typical at nominal coil voltage				
Release Time)	1.5 ms typical at nominal coil voltage (with no coil suppression)				
Dielectric Strength (at sea level for 1 min.)	500 Vrms coil to contact 500 Vrms between open contacts				
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC 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 (single) 8 grams (twin)				

AMERICAN ZETTLER, INC.

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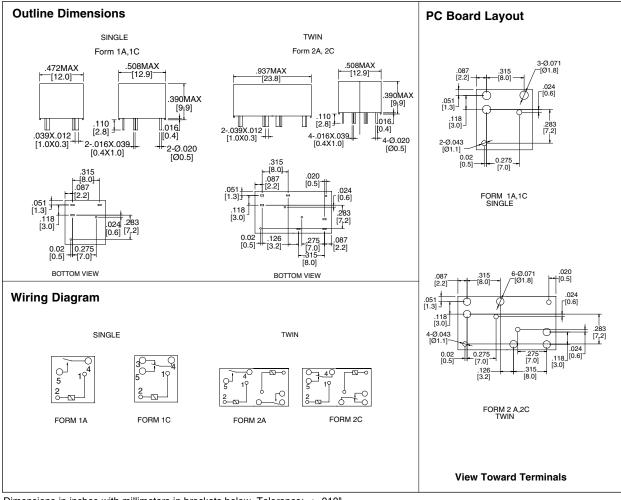
RELAY ORDERING DATA

STANDARD RELAYS - 1 FORM A, 1 FORM C (SINGLE)					
COIL SPECIFICATIONS			ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	1 Form A (SPST)	1 Form C (SPDT)
10	5.7	12.0	181	AZ9871–1A–10DT	AZ9871-1C-10DT
12	6.9	14.4	254	AZ9871–1A–12DT	AZ9871-1C-12DT
24	13.8	28.8	1010	AZ9871–1A–24DT	AZ9871-1C-24DT

STANDARD RELAYS - 2 FORM A, 2 FORM C (TWIN)					
COIL SPECIFICATIONS			ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	2 Form A (DPST)	2 Form C (DPDT)
10	5.7	12.0	181	AZ9871–2A–10DT	AZ9871-2C-10DT
12	6.9	14.4	254	AZ9871–2A–12DT	AZ9871-2C-12DT
24	13.8	28.8	1010	AZ9871–2A–24DT	AZ9871-2C-24DT

*Change "D" to "DE" for sealed version. Add suffix "A" for gold plated contacts.

MECHANICAL DATA



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

RICA

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11/18/13

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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product
under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.