

AZ9891

30 AMP SUB-MICRO AUTOMOTIVE RELAY

FEATURES

- Up to 30 Amp switching capability in a very compact size
- Vibration and shock resistant
- Designed for power windows, door locks and wiper motors, seat adjusters, and more
- Epoxy sealed for automatic wave soldering
- ISO/TS 16949, ISO9001, ISO14000
- Cost effective
- Single and Dual (Twin) relay versions



CONTACTS

Arrangement	SPDT (1 Form C) DPDT (2 Form C) (Twin)
Ratings	Resistive load: Max. switched power: 480W Max. switched current: 30A Max. switched voltage: 16VDC Rated load: 25A at 16VDC, locked motor
Material	Silver tin oxide
Resistance	< 50 milliohms initially (6V, 1A voltage drop method)

COIL

Power At Pickup Voltage (typical)	230mW
Max. Continuous Dissipation	2.2W at 20°C (68°F) ambient
Temperature Rise	40°C (72°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 ⁶ 1 x 10 ⁵ at 25A 14VDC locked motor
Operate Time	10ms typical at nominal coil voltage
Release Time	5ms typical at nominal coil voltage
Dielectric Strength (at sea level for 1 min.)	500VAC coil to contact 500VAC between open contacts
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC 85% RH (at 40°C)
Dropout	Greater than 8.3% 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	4.5g at 10-500Hz
Shock	10g operational, 100g destructive
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp	270°C (518°F)
Max. Solder Time	3 seconds
Max. Solvent Temp	80°C (176°F)
Max. Immersion Time	30 Seconds
Weight	4.1 grams

AMERICAN ZETTLER, INC.

www.azettler.com

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AZ9891

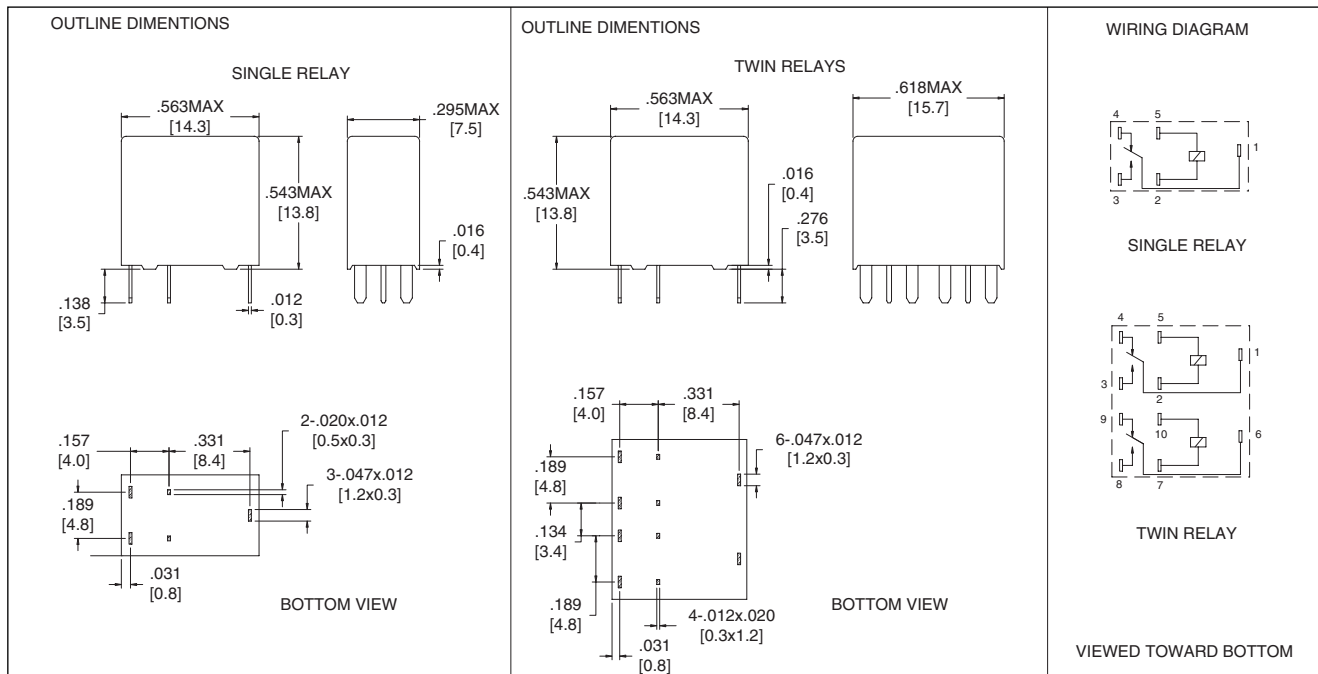
RELAY ORDERING DATA

STANDARD RELAYS - 1 Form C				
COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	1 Form C (SPDT)
12	7.2	18.0	225	AZ9891J-1C-12DE
Sensitive Coil				
	6.5	20.0	180	AZ9891J-1C-12DSE

RELAY ORDERING DATA

STANDARD RELAYS - 2 Form C				
COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	1 Form C (SPDT)
12	7.2	18.0	225	AZ9891J-1C-12DE
Sensitive Coil				
	6.5	20.0	180	AZ9891J-1C-12DSE

MECHANICAL DATA



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

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