AZ989

25 AMP SUB-MICRO AUTOMOTIVE RELAY

FEATURES

- Up to 25 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
- Tested in accordance with SAE J2544
- 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: 400 W Max. switched current: 25 A Max. switched voltage: 16 VDC Rated load: 25 A at 16 VDC, locked motor
Material	Silver tin oxide
Resistance	< 25 milliohms initially (6 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	230 mW
Max. Continuous Dissipation	2.2 W 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 25 A 14 VDC locked motor
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 VAC coil to contact 500 VAC between open contacts
Insulation Resistance	100 megohms min. at 20°C, 500 VDC 50% RH
Dropout	Greater than 8.3% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 155°C (311°F)
Vibration	5g at 10-500 Hz
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	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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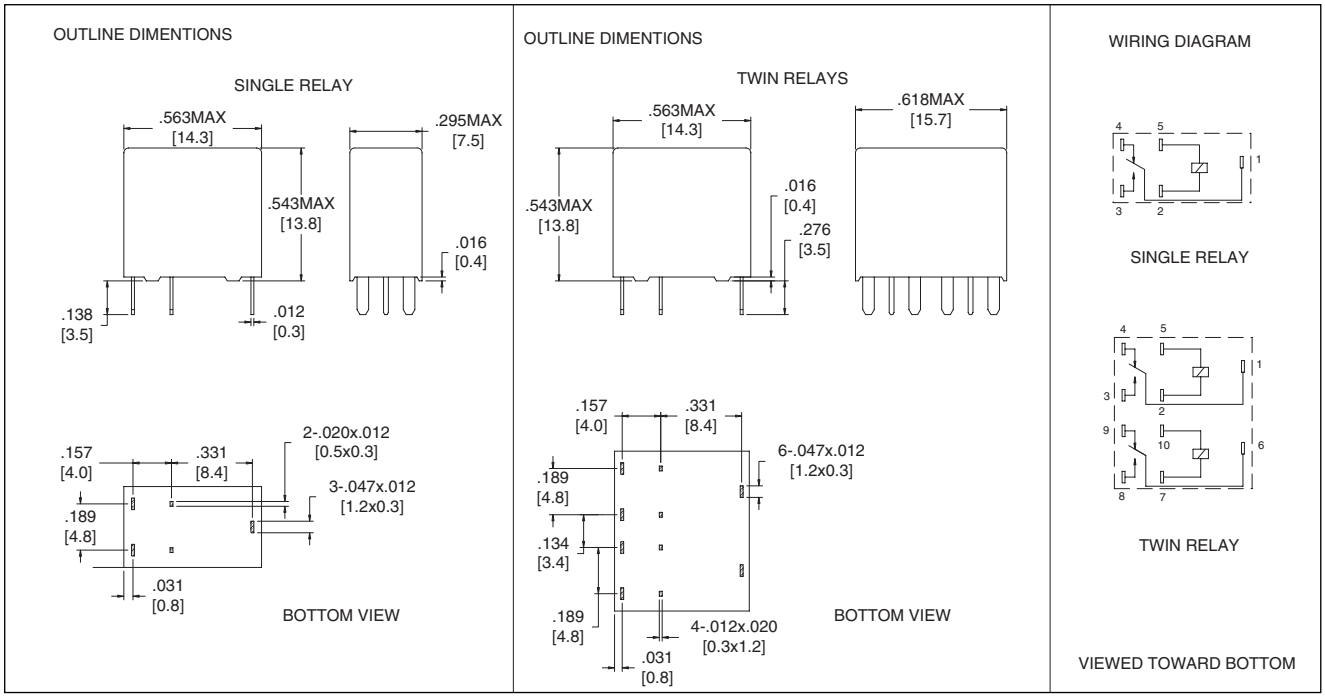
RELAY ORDERING DATA

STANDARD RELAYS - 1 Form C (Single)				
COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	1 Form C (SPDT)
12	6.5	18.0	180	AZ989–1C–12DE
12	7.2	20.0	225	AZ989–1C–12DSE

STANDARD RELAYS - 2 Form C (Twin)				
COIL SPECIFICATIONS				ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	2 Form C (DPDT)
12	6.5	18.0	180	AZ989–2C–12DE
12	7.2	20.0	225	AZ989–2C–12DSE

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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