

AZ9471

25 AMP SUBMINIATURE AUTOMOTIVE RELAY

FEATURES

- 0.3 mm contact gap
- 25 Amp contact rating
- Low profile, small footprint
- High operating temperature (85°C)
- SPDT (1 Form C)
- Epoxy sealed for automatic wave soldering
- ISO/TS 16949, ISO9001, ISO14000
- Tested in accordance with SAE J2544



CONTACTS

Arrangement	SPDT (1 Form C)
Ratings	Resistive load Max. switched power: 210 W Max switched current: 20 A Max. switched voltage: 30 VDC Max. carry current: 35 A / 10 min. Max. surge current: 60 A / 1 sec. 20 A at 14 VDC motor (make) 4 A at 14 VDC motor (break)
Material	Silver tin oxide
Resistance	<100 milliohms initially (6 V, 1A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	222 mW
Max. Continuous Dissipation Temperature Rise	1.09 W at 20°C (68°F) ambient at nominal coil voltage 44°C (79°F)
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 [2]
Operate Time (max.)	10 ms max. at nominal coil voltage
Release Time (max.)	5 ms max. 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% 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	0.062" DA at 10-55 Hz
Shock	10 g operational (100 μ sec.) 100 g destructive
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
Weight	6 grams



AMERICAN ZETTLER, INC.

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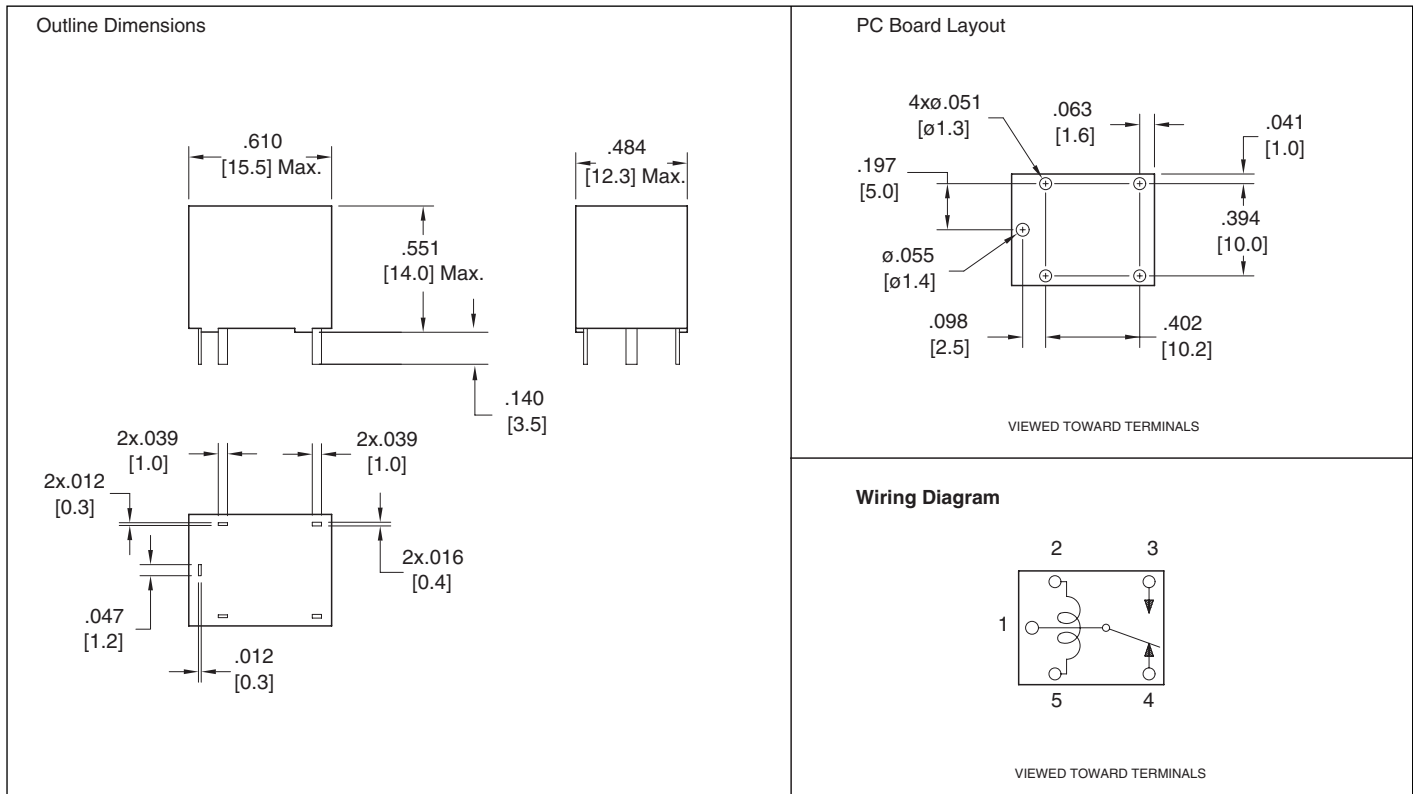
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RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	SPDT
6	3.6	8.1	60	AZ9471-1C-6DEA
9	5.4	12.2	135	AZ9471-1C-9DEA
10	6.3	13.5	180	AZ9471-1C-10DEA
12	7.3	16.2	240	AZ9471-1C-12DEA
18	10.8	24.4	540	AZ9471-1C-18DEA
24	14.4	32.5	960	AZ9471-1C-24DEA

MECHANICAL DATA



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



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