

# AZ9471

## 35 AMP SUBMINIATURE AUTOMOTIVE RELAY

### FEATURES

- 0.3mm contact gap
- 35 Amp contact rating
- Low profile, small footprint
- High operating temperature (85°C)
- SPDT (1 Form C), SPST-N.O. (1 Form A)
- Epoxy sealed for automatic wave soldering
- ISO/TS 16949, ISO9001, ISO14000



### CONTACTS

Arrangement	SPDT (1 Form C), SPST-N.O. (1 Form A)
Ratings	Resistive load Max.switched power: 560W Max switched current: 35A (N.O.), 25A (N.C.) Max. switched voltage: 16VDC Max. carry current: 35A (at 23°C,10 min.) 25A (at 23°C, 60 min.) Max. surge current: 20A at 14VDC motor (make) 4A at 14VDC motor (break)
Material	Silver tin oxide
Resistance	<100 milliohms initially (6V, 1A voltage drop method)

### COIL

Power At Pickup Voltage (typical)	222mW
Max. Continuous Dissipation Temperature Rise	1.09W 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 <sup>6</sup> 1 x 10 <sup>5</sup> at 25A, 14VDC locked motor [2]
Operate Time (max.)	10ms at nominal coil voltage
Release Time (max.)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	500VAC coil to contact 500VAC between open contacts
Insulation Resistance	100 megohms min. at 20°C, 500VDC 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 (approx)	6 grams

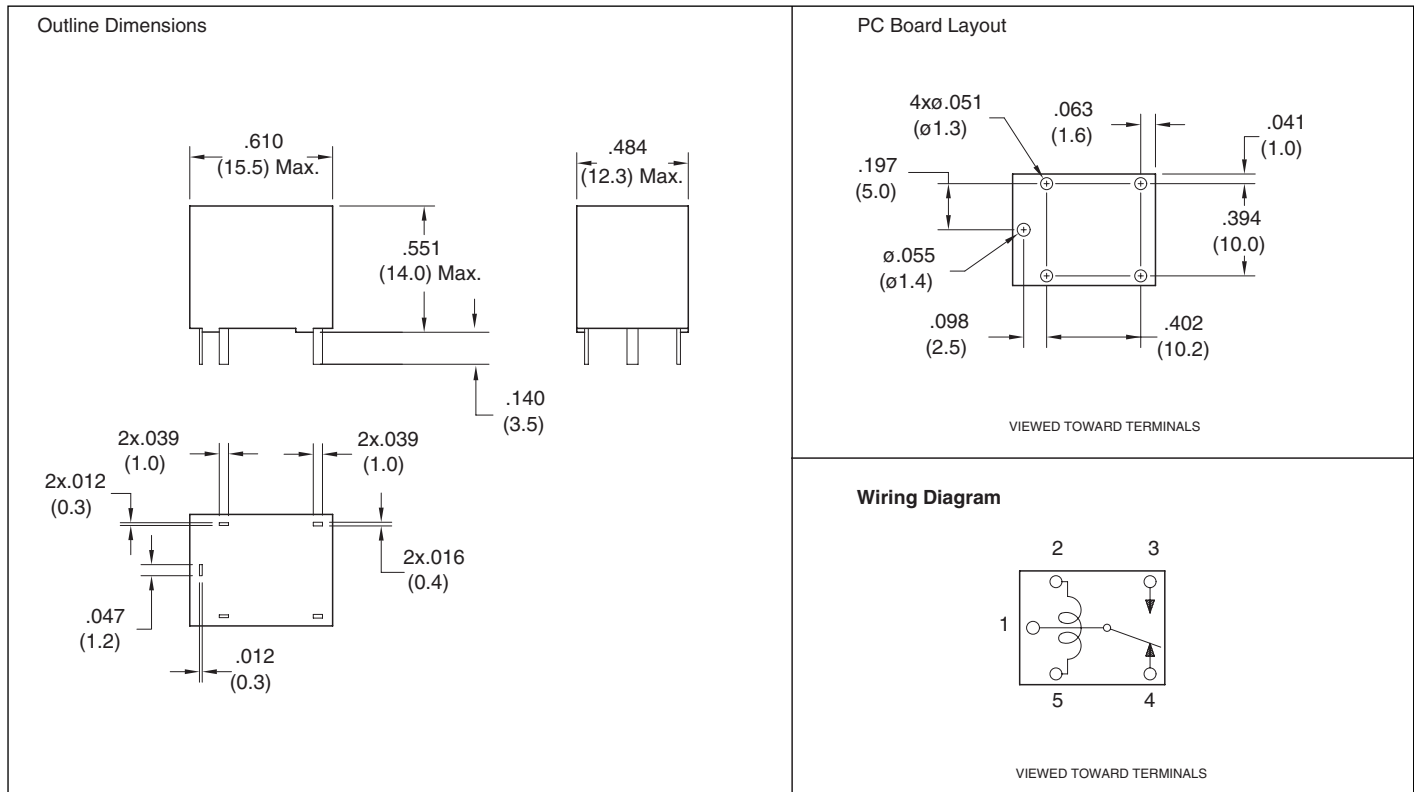
**AMERICAN ZETTLER, INC.**

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## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohms $\pm 10\%$	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	12.6	32.5	720	AZ9471-1C-24DEA

## MECHANICAL DATA



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

# AMERICAN ZETTLER, INC.

12/3/18

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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.