

# 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

<b>Arrangement</b>	SPDT (1 Form C), SPST-N.O. (1 Form A)
<b>Ratings</b>	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)
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	<100 milliohms initially (6V, 1A voltage drop method)

### COIL

<b>Power</b>	
<b>At Pickup Voltage (typical)</b>	222mW
<b>Max. Continuous Dissipation Temperature Rise</b>	1.09W at 20°C (68°F) ambient at nominal coil voltage 44°C (79°F)
<b>Max Temperature</b>	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

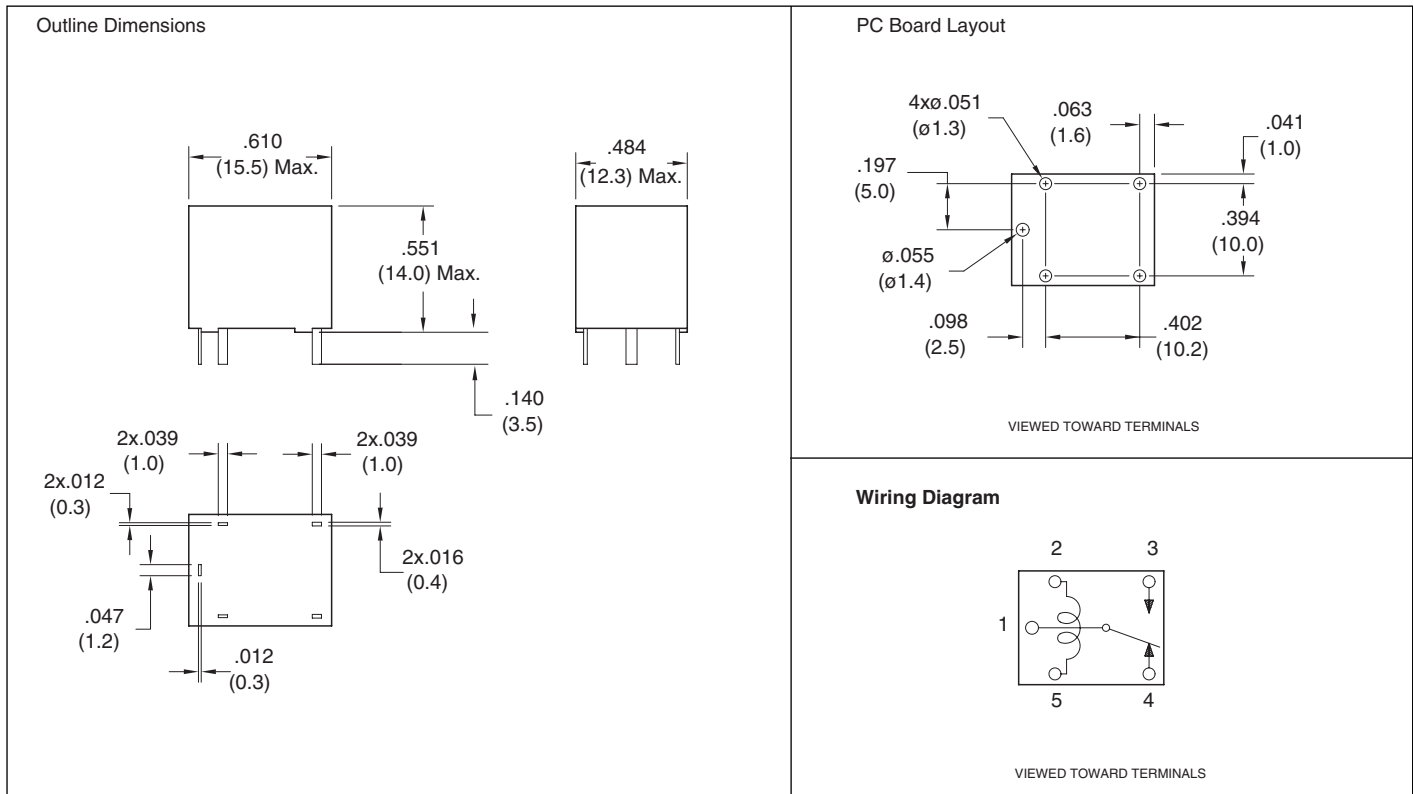
<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>6</sup> 1 x 10 <sup>5</sup> at 25A, 14VDC locked motor [2]
<b>Operate Time (max.)</b>	10ms at nominal coil voltage
<b>Release Time (max.)</b>	5 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	500VAC coil to contact 500VAC between open contacts
<b>Insulation Resistance</b>	100 megohms min. at 20°C, 500VDC 50% RH
<b>Dropout</b>	Greater than 8% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b> <b>Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 155°C (311°F)
<b>Vibration</b>	0.062" DA at 10-55 Hz
<b>Shock</b>	10 g operational (100 μ sec.) 100 g destructive
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Weight (approx)</b>	6 grams

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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	14.4	32.5	960	AZ9471-1C-24DEA

## MECHANICAL DATA



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