

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

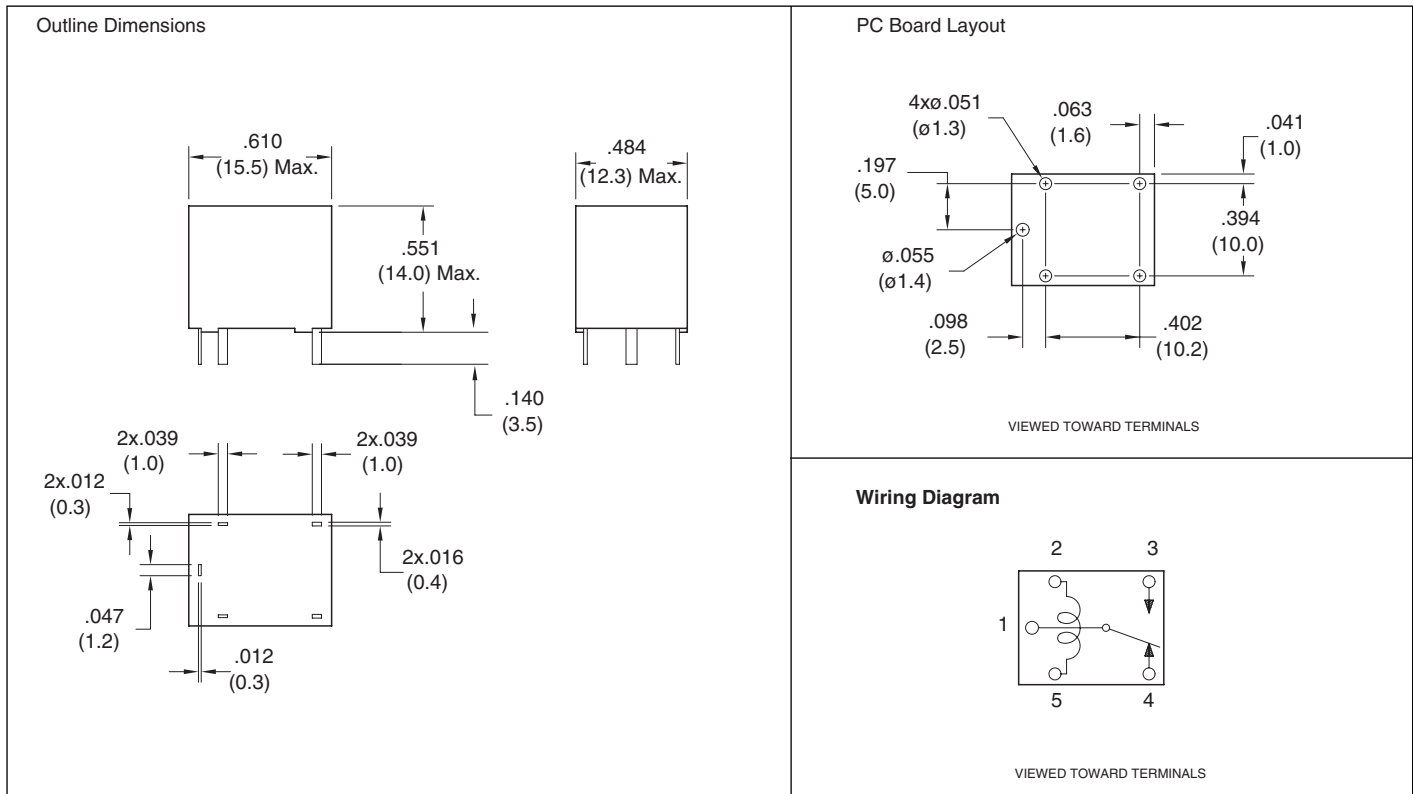
Life Expectancy	Minimum operations
Mechanical	1 x 10 ⁶
Electrical	1 x 10 ⁵ at 25A, 14VDC locked motor [2]
Operate Time (max.)	10ms at nominal coil voltage
Release Time (max.)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	500VAC coil to contact 500VAC 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

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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: $\pm .010"$