

AZ9831

70 AMP MINI-ISO AUTOMOTIVE RELAY

FEATURES

- PCB terminals
- 70 Amp contact rating
- High operating temperature (85°C)
- SPST N.O. (1 Form A)
- ISO/TS 16949, ISO14001



CONTACTS

Arrangement	SPST (N.O.) (1 Form A)
Ratings	Resistive load: Max. switched power: 1000 W Max. switched current: 70 A Max. switched voltage: 75 VDC
Material	Silver tin oxide
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	0.80 W
Max. Continuous Dissipation	3.2 W at 20°C (68°F)
Temperature Rise	68°C (122°F) at nominal coil voltage
Temperature	Max. 155°C (311°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 70 A 14 VDC Res.
Operate Time (typical)	7 ms at nominal coil voltage
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	500 Vrms coil to contact 500 Vrms contact to contact
Insulation Resistance	100 megohms min. at 500 VDC, 20°C 50% RH
Dropout	Greater than 15% of nominal coil voltage
Ambient Temperature Operating Storage	-40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" DA at 10-55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Copper alloy PCB
Weight	31 grams

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.

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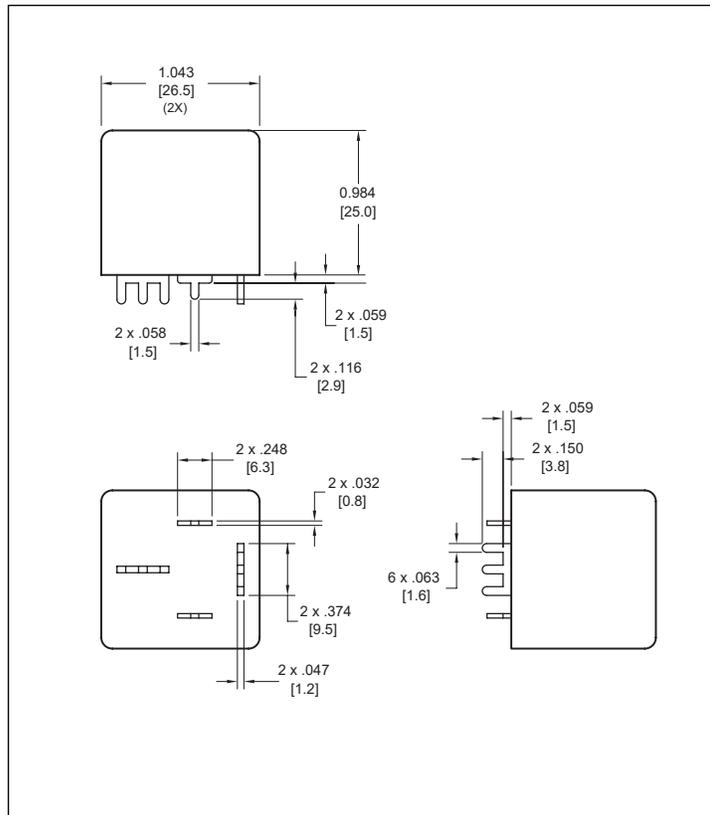
AZ9831

RELAY ORDERING DATA

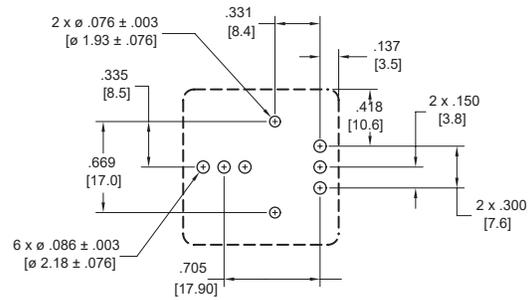
COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	SPST (N.O.)
6	3.9	7.8	19	AZ9831-1A-6D
12	7.8	15.6	76	AZ9831-1A-12D
24	15.6	31.2	303	AZ9831-1A-24D

*Add suffix "R" for resistor in parallel with coil. Resistor values: 6V: 180 ohms, 12V: 680 ohms, 24V: 2700 ohms. Add suffix "D" for diode across coil ("+" pole of power supply at terminal #86).

MECHANICAL DATA

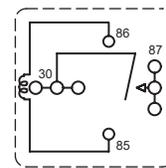


PC BOARD LAYOUT



VIEWED TOWARD TERMINALS

WIRING DIAGRAMS



1 FORM A

VIEWED TOWARD TERMINALS

Dimensions in inches with millimeters in brackets below. Tolerance: $\pm .010$ "

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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.