

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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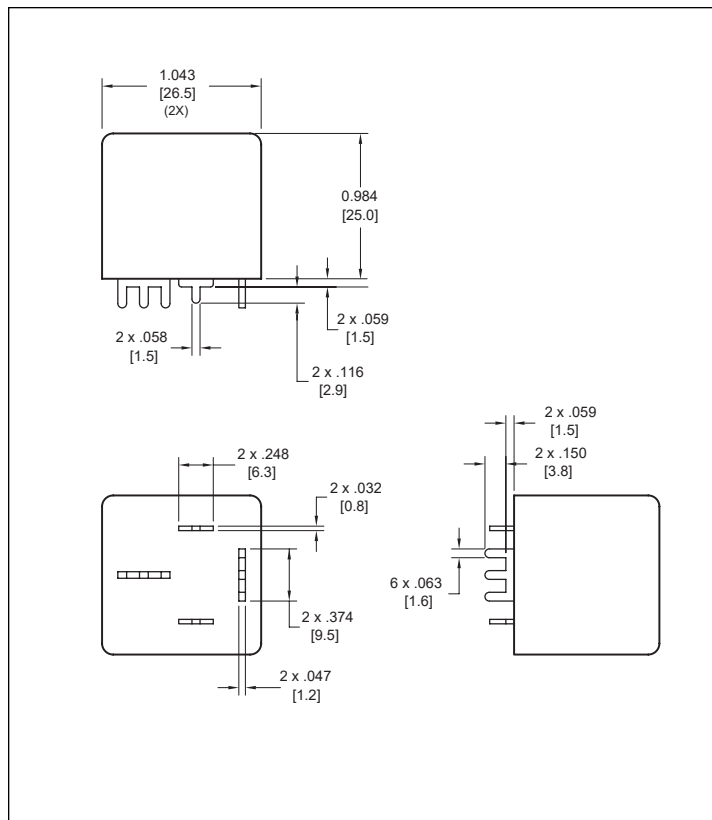
12/12/12

RELAY ORDERING DATA

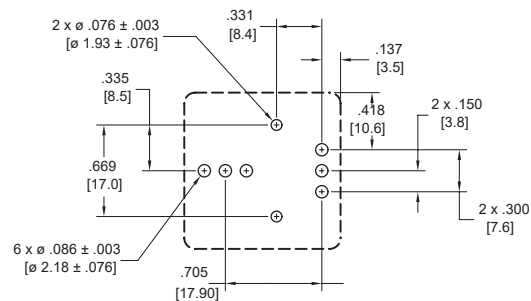
COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	SPST (N.O.)
6	3.9	7.8	19	AZ9831-1A-6D
12	7.8	15.6	76	AZ9831-1A-12D
24	15.6	31.2	303	AZ9831-1A-24D

*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

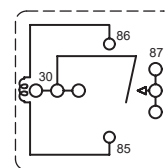


PC BOARD LAYOUT



VIEWED TOWARD TERMINALS

WIRING DIAGRAMS



1 FORM A

VIEWED TOWARD TERMINALS

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