# **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
- Tested in accordance with SAE J2544



## **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 <sup>7</sup> 1 x 10 <sup>5</sup> 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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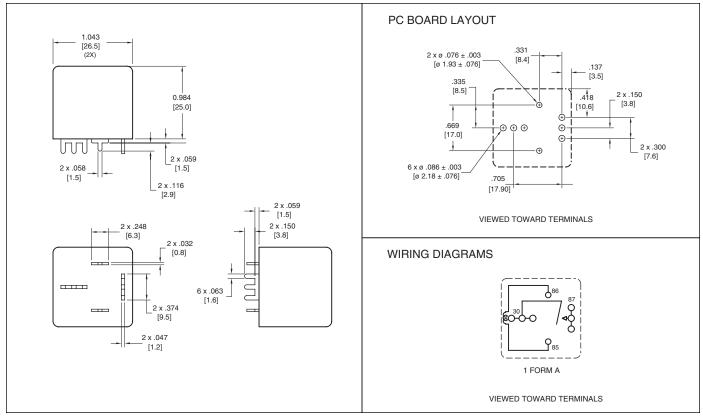
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## **RELAY ORDERING DATA**

COIL SPECIFICATIO	ORDER NUMBER*			
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 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

<sup>\*</sup>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 (anode (+) on terminal #86).

#### **MECHANICAL DATA**



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