# **AZ9731T**\_

# 50 AMP MINI-ISO AUTOMOTIVE RELAY

### **FEATURES**

- Quick connect terminals
- 50 Amp contact rating
- High operating temperature (125°C)
- Epoxy sealed versions available
- Plastic or steel mounting bracket available
- Resistor or diode parallel to coil available
- Suitable for automobile and lamp accessory applications



#### **CONTACTS**

Arrangement	SPST (1 Form A) SPDT (1 Form C) SPST NO DM ( 1 Form U) SPST (1 Form A2)
Ratings	Resistive load:  Max. switched power: 700W  Max. switched current: 50 A (N.O.) 40 A (N.C.)  Max. switched voltage: 75 VDC  1 Form A: 50A at 14VDC 1 Form C: 50A/40A at 14VDC (N.O./N.C.) 1 Form U: 2 x 25A at 14VDC
Material	Silver tin oxide
Resistance	< 100 milliohms initially (6 V, 1 A voltage drop method)

### COIL

Power		
At Pickup Voltage (typical)	0.68 W	
Max. Continuous Dissipation	4.8 W at 20°C (68°F)	
Temperature Rise	75°C (135°F) at nominal coil voltage (40A)	
Temperature	Max. 125°C (257°F)	

#### **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 50 A, 14VDC Res.	
Operate Time (max.)	7 ms at nominal coil voltage	
Release Time (max.)	5 ms at nominal coil voltage	
Dielectric Strength (at sea level for 1 min.)	750 Vrms coil to contact 500 Vrms contact to contact	
Insulation Resistance	100 megohms min. at 500 VDC, 20°C 50% RH	
Dropout	Greater than 10% of nominal coil voltage	
Ambient Temperature Operating	-40°C (-40°F) to 125°C (257°F)	
Vibration	0.059" DA at 10-40 Hz	
Shock	15 g	
Enclosure	P.B.T. polyester	
Terminals	Tinned copper alloy 0.25 Quick Connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.	
Weight	31 grams	

### **NOTES**

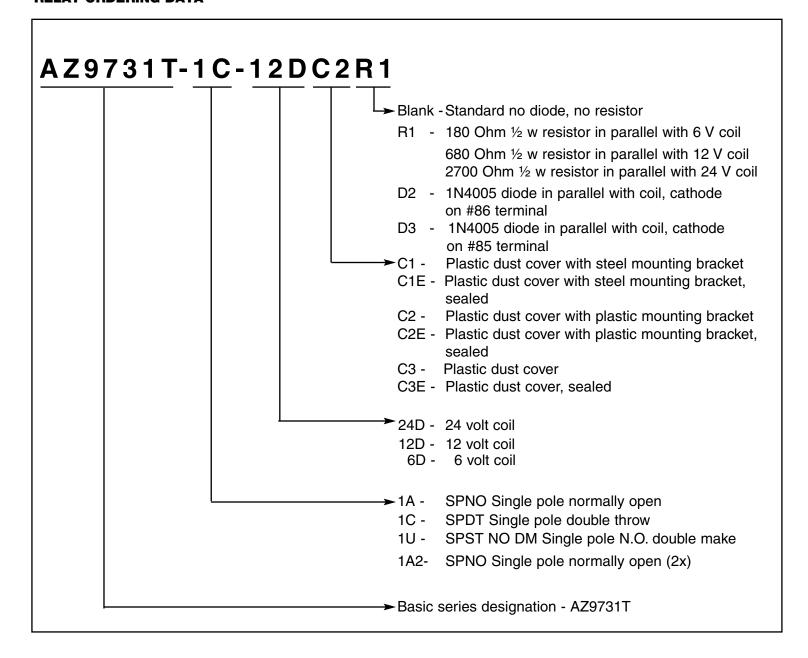
- 1. All values at 20°C (68°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Specifications subject to change without notice.

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#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%		
6	3.9	7.8	22.5		
12	7.8	15.6	90		
24	15.6	31.2	360		

#### **RELAY ORDERING DATA**



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## **MECHANICAL DATA**

