## **AZ9731**

### 40 AMP AUTOMOTIVE RELAY

### **FEATURES**

- 40 Amp contact rating
- High operating temperature (125°C)
- · Quick connect terminals
- Epoxy sealed version available
- · Metal or plastic mounting bracket available
- Resistor or diode parallel to coil available
- ISO/TS 16949, ISO14001



### **CONTACTS**

Arrangement	SPST (1 Form A) SPDT (1 Form C)			
Ratings	Resistive load:			
	Max. switched power: 560 W Max. switched current: 40 A (N.O.), 30 A (N.C.) Max. switched voltage: 28 VDC			
Rated load	1 Form A* 40 A at 14 VDC 20 A at 24 VDC			
	1 Form C* 40 A at 14 VDC (N.O.) 30 A at 14 VDC (N.C.) 20 A at 24 VDC (N.O.) 15 A at 24 VDC (N.C.)			
	*Note: 80°C ambient at continuous current 125°C ambient at switched current  1 Form A 15 A at 14 / 24 VDC, continuous, 125°C			
	1 Form C 15A at 14 / 24 VDC (N.O.), continuous, 125°C 10 A at 14 / 24 VDC (N.C.), continuous, 125°C			
Material	Silver tin oxide			
Resistance	< 100 milliohms initially (at 6 V, 1 A, voltage drop method)			

### **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 Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 40 A 14 VDC Res.		
Operate Time (max.)	7 ms 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.)	750Vrms coil to contact 500Vrms between open contacts		
Insulation Resistance	100 megohms min. at 20°C, 500 VDC, 50% RH		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 125°C (257°F)		
Vibration	0.062" (1.5 mm) DA at 10-40 Hz		
Shock	15 g		
Enclosure	PA66		
Terminals	Tinned copper alloy Quick connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.		
Weight	36 grams		

### COIL

Power At Pickup Voltage (typical)	680 mW	
Max. Continuous Dissipation	2.7 W at 20°C (68°F) ambient	
Temperature Rise	75°C (135°F) at nominal coil voltage (at 40 A)	
Temperature	Max. 155°C (311°F) Class F	

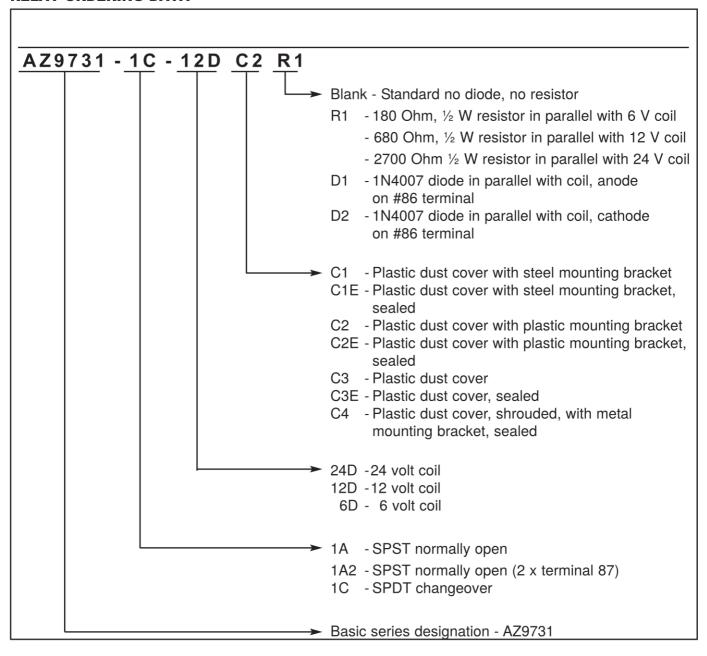
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### **RELAY ORDERING DATA**

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

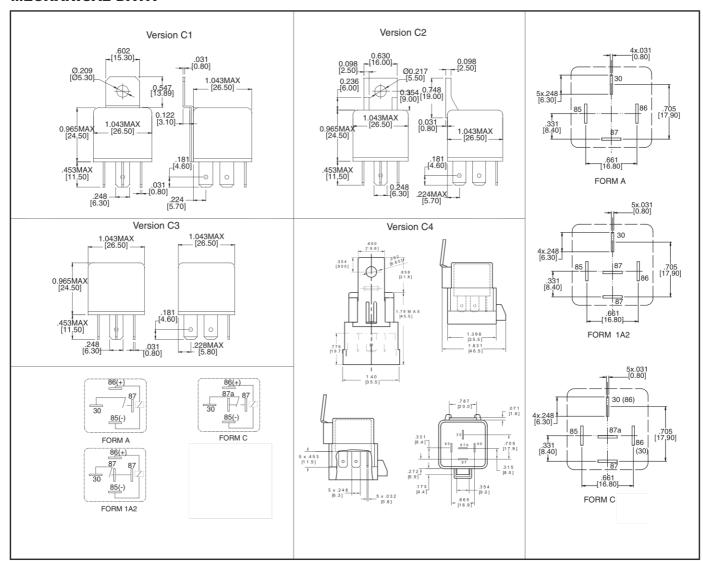
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#### **MECHANICAL DATA**



Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm$  .010"

