### **AZ9731**\_

# 40 AMP MINI-ISO AUTOMOTIVE RELAY

### **FEATURES**

- Quick connect terminals
- 40 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
- ISO/TS 16949, ISO14001
- Tested in accordance with SAE J2544



#### **CONTACTS**

Arrangement	SPST (1 Form A) SPDT (1 Form C) SPST NO DM ( 1 Form U)		
Ratings	Resistive load:		
	Max. switched power: 630 W (SPST) 630 W (N.O.) 473 W (N.C.)		
	Max. switched current: 40 A (SPST) 40 A (N.O.) 30 A (N.C.)		
	Max. switched voltage: 75 VDC		
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 40 A 14 VDC 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.)	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 125°C (257°F) -55°C (-67°F) to 155°C (311°F)	
Vibration	0.062" DA at 10-40 Hz	
Shock	15 grams	
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.



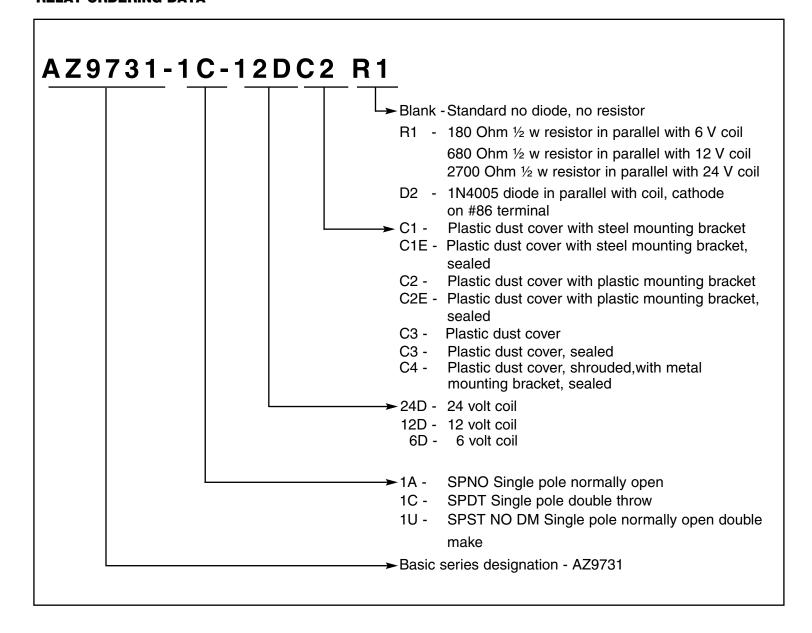
### AMERICAN ZETTLER, INC.

## **AZ9731**

### **RELAY ORDERING DATA**

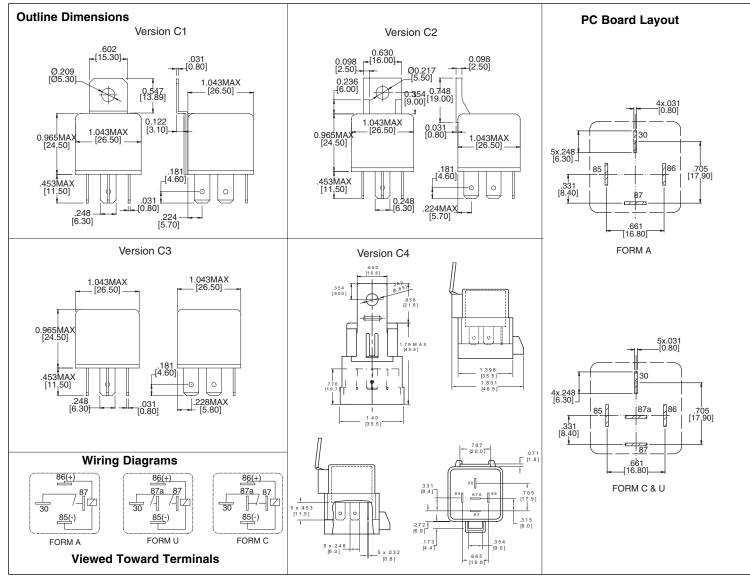
COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%		
6	3.9	7.8	22.5		
12	7.8	15.6	90		
24	15.6	31.2	360		

### **RELAY ORDERING DATA**



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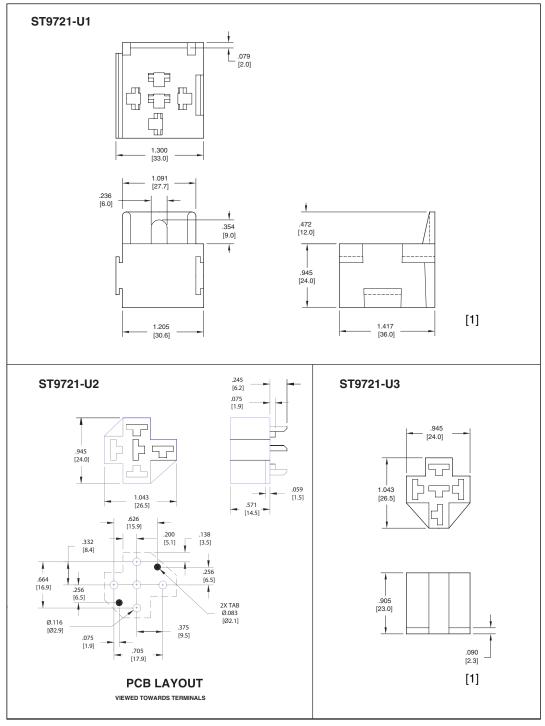
### **MECHANICAL DATA**



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

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### **Sockets & Hardware for AZ9731**



[1] Recommended receptical connector Amp Part numbers are 5-160558-9 or 5-1605-26-9

