## **AZ986**

### 40 AMP 280-ISO AUTOMOTIVE RELAY

### **FEATURES**

- 40 Amp contact rating
- High operating temperature (125°C)
- SPST (1 Form A), SPDT (1 Form C)
- Available with shrouded weatherproof cover
- Coil suppression available
- ISO/TS 16949, ISO9001, ISO 14000
- Tested in accordance with SAE J2544



#### **CONTACTS**

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load:
	Max. switched power: 560 W (SPST) 560 W (N.O.) 420 W (N.C.)
	Max. switched current: 40 A (SPST) 40 A (N.O.) 30 A (N.C.)
	Max. switched voltage: 75 VDC
	*Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Material	Silver tin oxide
Resistance	< 100 milliohms initially (6 V, 1 A voltage drop method)

### COIL

Power	
At Pickup Voltage (typical)	0.58 W
Max. Continuous Dissipation	3.7 W at 20°C (68°F)
Temperature Rise	52°C (94°F) at nominal coil voltage
Temperature	Max. 180°C (356°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.)	6 ms at nominal coil voltage
Release Time (max.)	3 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 10% of nominal coil voltage
Ambient Temperature Operating Storage	-55°C (-67°F) to 125°C (257°F) -55°C (-67°F) to 155°C (311°F)
Vibration	1.27mm DA 10-40 Hz 5 g 40-70 Hz 0.5mm DA 70-100 Hz 10 g 100-500 Hz
Shock	196 m/s²
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy 0.110 Quick Connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
Weight	28 grams (37 grams shrouded version)

#### **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.

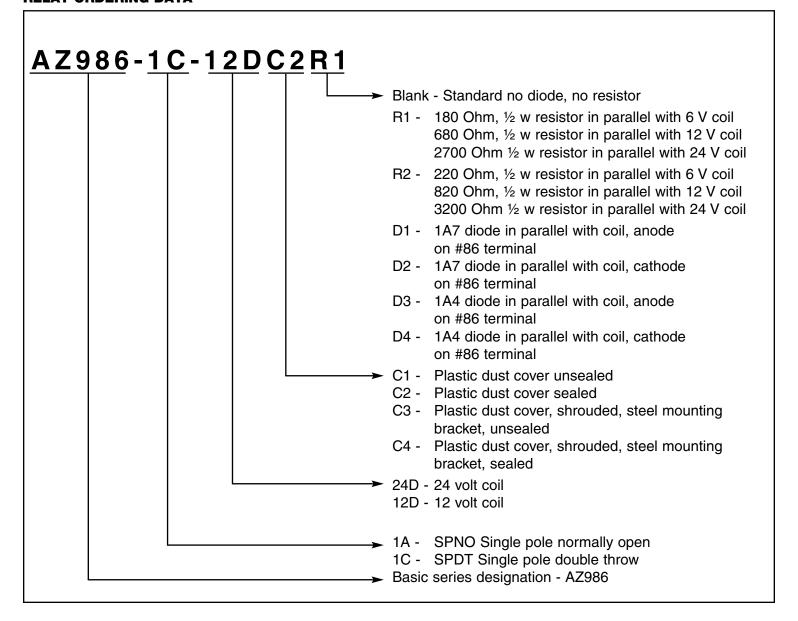


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#### **RELAY ORDERING DATA**

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%		
12	7.2	20.2	109		
24	14.4	39.3	436		

#### **RELAY ORDERING DATA**



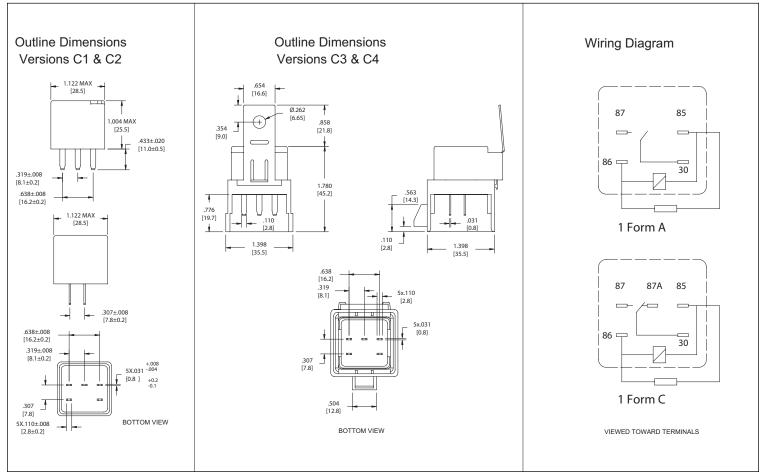


AMERICAN ZETTLER, INC.

www.azettler.com

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#### **MECHANICAL DATA**



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