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



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.)							
	*See Contact Data Table for additional ratings.							
	Max. switched voltage: 75 VDC							
	*Note: If switching voltage is greater than 30VDC, 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)					

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.

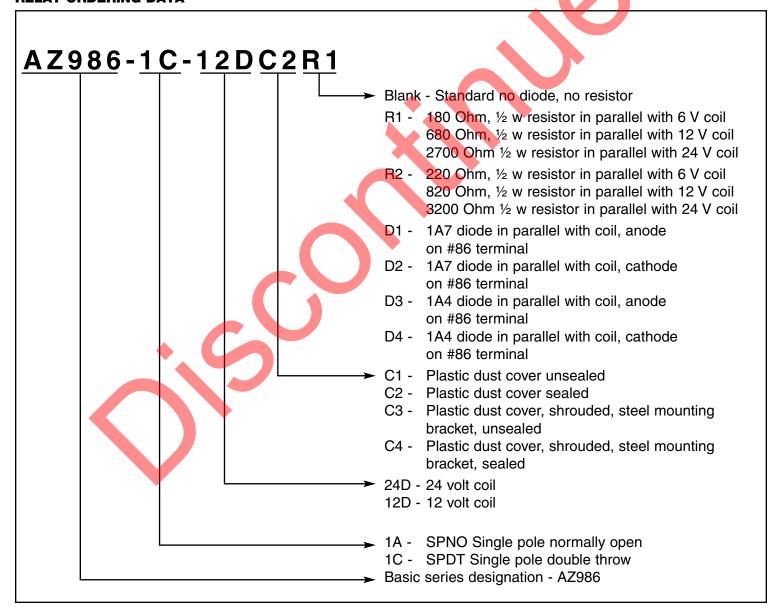
GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ 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/s ²				
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)				

RELAY ORDERING DATA

COIL SPECIFICATIONS						
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%			
12	7.2	21.0	90			
24	14.4	42.0	360			

RELAY ORDERING DATA



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MECHANICAL DATA

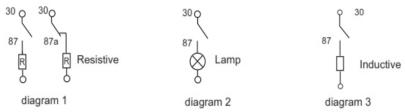


Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

CONTACT DATA 2)

Load voltage	Load type		Lo	Load current A		On/Off ratio		Electrical	Contact	Load wiring	Ambient
			NO NO	NC	1A NO	On s	Off s	endurance OPS	material	diagram 1)	temp.
13.5VDG	Resistive	Make	35	20	35	2	2	1×10 ⁵	AgSnO ₂	See diagram 1	
		Break	35	20	35						23°C
	Lamp	Make	150		150	2	2	1×10 ⁵	AgSnO ₂	See diagram 2	
		Break	30		30						
	Inductive	Make	80		80	2	2	1×10 ⁵	AgSnO ₂	See diagram 3	
		Break	33		33						

1.) The load wiring diagrams are listed below (Ratings of NO, NC are tested based on different samples seperately):



2.) Loads mentioned in this chart are for relay with no parallel diode or Zener diode.

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2/27/13