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 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)				

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

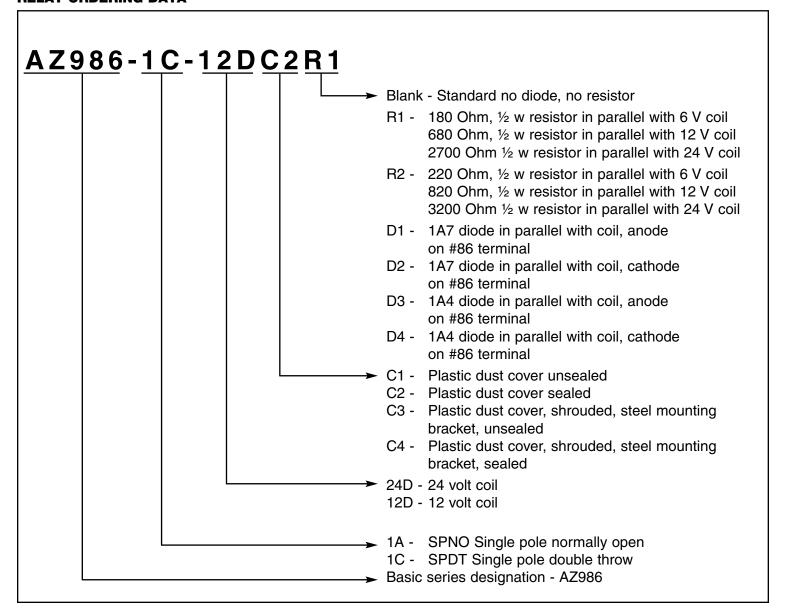
Life Expectancy Mechanical Electrical Ninimum operations 1 x 107 1 x 105 at 40 A 14 VDC Res. Operate Time (max.) Release Time (max.) Dielectric Strength (at sea level for 1 min.) Insulation Resistance Operating Storage Ambient Temperature Operating Storage -55°C (-67°F) to 125°C (257°F) -55°C (-67°F) 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 Tinned copper alloy 0.110 Quick Connect Note: Allow suitable slack on leads when wiring, and onot subject the terminals to excessive force.							
Operate Time (max.) Release Time (max.) Dielectric Strength (at sea level for 1 min.) Insulation Resistance Operating Storage Vibration 1.27mm DA 10-40 Hz 5 g 40-70 Hz 0.5mm DA 70-100 Hz 10 g 100-500 Hz Shock 100 ms at nominal coil voltage 500 Vrms coil to contact 500 Vrms contact to contact 100 megohms min. at 500 VDC, 20°C 50% RH Dropout Greater than 10% of nominal coil voltage -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 other strengths of the suitable slack on leads when wiring, and other slacks on leads when wiring wiring slacks	Mechanical	1 x 10 ⁷					
Release Time (max.) Dielectric Strength (at sea level for 1 min.) Insulation Resistance Dropout Ambient Temperature Operating Storage Vibration 1.27mm DA 10-40 Hz 5 g 40-70 Hz 0.5mm DA 70-100 Hz 10 g 100-500 Hz Shock P.B.T. polyester Terminals Tinned copper alloy 0.110 Quick Connect Note: Allow suitable slack on leads when wiring, and of the source of th	Electrical	1 x 10 ⁵ at 40 A 14 VDC Res.					
Dielectric Strength (at sea level for 1 min.) Insulation Resistance 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 of	Operate Time (max.)	6 ms at nominal coil voltage					
(at sea level for 1 min.) 500 Vrms contact to contact	Release Time (max.)	3 ms at nominal coil voltage					
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 of							
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Operating Storage	Dropout	Greater than 10% of nominal coil voltage					
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Enclosure P.B.T. polyester Terminals Tinned copper alloy 0.110 Quick Connect Note: Allow suitable slack on leads when wiring, and of	Vibration	5 g 40-70 Hz 0.5mm DA 70-100 Hz					
Terminals Tinned copper alloy 0.110 Quick Connect Note: Allow suitable slack on leads when wiring, and of	Shock	196 m/s ²					
0.110 Quick Connect Note: Allow suitable slack on leads when wiring, and of	Enclosure	P.B.T. polyester					
1	Terminals	0.110 Quick Connect Note: Allow suitable slack on leads when wiring, and do					
Weight 28 grams (37 grams shrouded version)	Weight	28 grams (37 grams shrouded version)					

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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

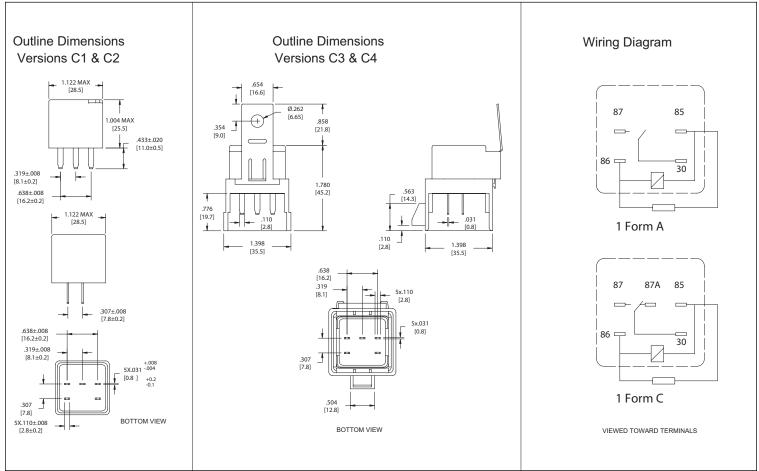


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MECHANICAL DATA

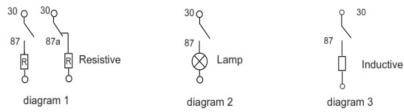


Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

CONTACT DATA 2)

Load voltage			Load current A			On/Off ratio		Electrical	Contact	Load wiring	Ambient
	Load t	Load type		1C		On	Off	endurance OPS	material	diagram 1)	temp.
			NO	NC	NO	s s					
13.5VDC Lamp	Resistive	Make	35	20	35			2 1×10 ⁵	AgSnO ₂	See diagram 1	23°C
	resistive	Break	35	20	35	2 2	2				
	Lamp	Make	150		150	2	2	1×10 ⁵	AgSnO₂	See diagram 2	
	Lamp	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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