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40 AMP 280-ISO AUTOMOTIVE RELAY

FEATURES

- 40Amp 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: 420 W (SPST) 420 W (N.O.) 240W (N.C.)						
	Max. switched current: 40 A (SPST) (Continuous 125°C, 1Hr) 40 A (N.O.) 30 A (N.C.)						
	*See Contact Data Table for additional ratings.						
	Max. switched voltage: 40 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.

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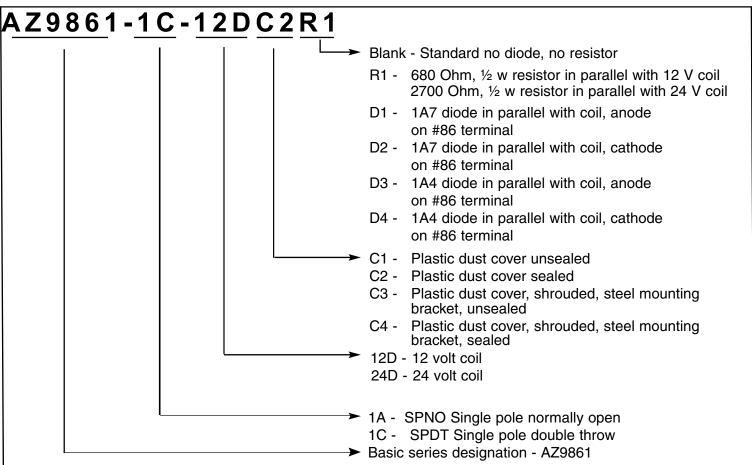
GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 35 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	10-1000Hz 19.8m/s2					
Shock	1000 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	20 grams (41 grams shrouded version)					

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RELAY ORDERING DATA



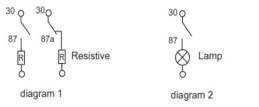
RELAY ORDERING DATA

COIL SPECIFICATIONS							
Nominal Coil Must Operate Max. Continuous Coil Resistance VDC VDC VDC ± 10%							
12	7.2	21.0	124				
24	14.4	42.0	360				

CONTACT DATA 2)

Load voltage			Load current A			On/Off ratio		Electrical	Contact	Load wiring	Ambient
	Load t	Load type		1C		On	Off	endurance	material	diagram 1)	temp.
			NO	NC	NO	S	S	OPS	material	diagram	temp.
13.5VDC	Resistive	Make	35	20	35	0	2	1×10 ⁵	AgSnO ₂	See diagram 1	23°C
		Break	35	20	35	2					
	Lamp	Make	150		150	2	2	1×10 ⁵	AgSnO ₂	See diagram 2	
		Break	30		30	2					
	Inductive	Make	80		80	2	2	1×10 ⁵	AgSnO ₂	See diagram 3	
	muuctive	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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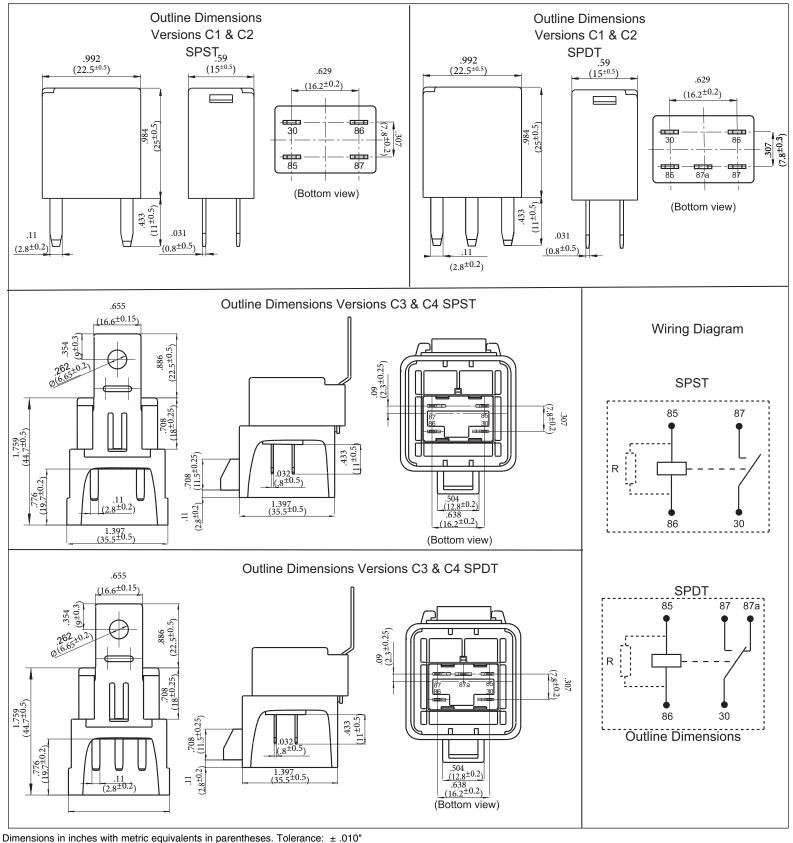
diagram 3

Inductive

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MECHANICAL DATA



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6/30/20

This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.