AZ9882_

40 AMP MICRO-ISO

AUTOMOTIVE RELAY

FEATURES

- Quick Connect or PCB terminals
- Up to 40 Amp switching capability in a compact size
- Coils up to 12 and 24VDC
- Small footprint
- SPST (1 Form A), SPDT (1 Form C)
- Vibration and shock resistant
- · Coil suppression available
- 90A Inrush N.O. Terminal

CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
	Resistive load:
	Max. switched power: 560W Max. switched current: 40A Max. switched voltage: 28VDC
Ratings	12V coil: 40A at 14VDC resistive 1 Form A 35A at 14VDC resistive 1 Form A 35A at 14VDC resistive 1 Form C (N.O.) 20A at 14VDC resistive 1 Form C (N.C.) 24V coil: 15A at 28VDC resistive 1 Form A 20A at 28VDC resistive 1 Form A 15A at 28VDC resistive 1 Form C (N.O.)
	8A at 28VDC resistive 1 Form C (N.C.)
Material	Silver tin oxide (silver nickel available - contact factory)
Resistance	< 50 milliohms initially (6VDC, 1A voltage drop method)
Contact Voltage drop	100mV typical, 250mV max. at rated load

COIL

Power	
At Pickup Voltage (typical)	540mW (Standard)
Max. Continuous Dissipation	3.6W at 20°C (68°F) ambient
Temperature Rise	60°C (108°F) at nominal coil voltage
Max Temperature	180°C (356°F)



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimumoperations 1 x 10 ⁷ 1 x 10 ⁵ at 35A, 14VDC Res.	
Operate Time (max.)	10ms at nominal coil voltage	
Release Time (max.)	10ms at nominal coil voltage (with no coil suppression)	
Dielectric Strength (at sea level for 1 min.)	500Vrms coil to contact 500Vrms between open contacts	
Insulation Resistance	100 megohms min. at 20°C, 500VDC 50% RH	
Dropout	Greater than 10% of nominal coil voltage	
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 125°C (257°F) -40°C (-40°F) to 155°C (320°F)	
Vibration	DA 1.5mm 10-50Hz	
Shock	100m/s², 11ms	
Enclosure	P.B.T. polyester	
Terminals	Quick connects or PCB Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.	
Max Solder Temp.	270°C (518°F)	
Max Solder Time	5 seconds	
Max Solvent Temp	80°C (176°F)	
Max Immersion Time	30 seconds	
Weight (Approx.)	18 ngrams	

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 - STANDARD					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%		
12	7.2	18	96		
24	14.4	36	320		



MECHANICAL DATA



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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.