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American Zettler Introduces 40 Amp 280-ISO Automotive Miniature Relays
The AZ9841 Series Relays for Automotive Use, Contain More Power in a Smaller Package

Aliso Viejo, Calif., March 16, 2010 – To continue its commitment to advancing relay technology and innovative design, American Zettler, Inc. introduces the AZ9841 Series 40 Amp miniature power relay for automotive use.

Built in American Zettler's ISO TS16949 factory, the new AZ9841 series are offered with SPST (1 form A), SPDT (1 form C) and a 35 A continuous N.O. rating at 35° C. "We saw a need in the automotive marketplace for a compact, high-powered relay that can handle the demands of cars today," said Dave West, VP of Sales, American Zettler, Inc. "This new relay fits the bill, giving customers the highest switching capability in the 280 ISO package."

Applications include headlights, magnetic clutches, radiator fans, blowers, fog lamps, tail lights, heaters, defoggers and horns. Relays are available with 6, 12 or 24 volt DC coils with optional shunt resistors and silver tin oxide contacts. The small and hardy relays can survive an ambient operating temperature as high as 125° C.

Pricing for the AZ9841, 12V, 40 A version starts at \$1.24 per 1,000 pieces. To learn more, visit www.azettler.com.

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About American Zettler, Inc.

Headquartered in Aliso Viejo, Calif., American Zettler, Inc. produces over forty different types of relays to meet the many requirements of commercial and industrial applications. Because of their high reliability, American Zettler relays are used in a wide range of demanding applications including telecommunications systems, computer peripheral and office automation equipment, home appliances, security systems, test and measurement devices, industrial controls and many other types of electric and electronic equipment. Additionally, American Zettler works closely with a computerized distribution network with stocking facilities in virtually every major industrial area in the world. For more information please visit www.azettler.com.



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RELAY PROFILE

Relay	AZ9841
Relay Description	Miniature Automotive PCB Relay
Features/Benefits	40 Amp Switching High operating temperature (125°C) ISO/TS 16949 6, 12 or 24 VDC coil available
Relay Applications	Blower motors, cooling fans, defoggers, fuel pumps, lifts, lighting, and more
Relay Availability	Sample quantity available upon request
Relay Cross Reference	See below

CROSS REFERENCE AZ9841

Тусо	VJ28
Omron	G8V-RH
Panasonic	ACV

AZ9841

40 AMP 280-ISO AUTOMOTIVE RELAY

FEATURES

- Up to 40 Amp switching in a compact size
- SPST (1 Form A), SPDT (1 Form C)
- Vibration and shock resistant
- 35 A Continuous N.O., Rating at 35°C
- ISO/TS 16949, ISO9001



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)		
Ratings	Resistive load: Max. switched power: 560 W Max. switched current: N.O. 40A N.C. 30A Max. switched voltage: 75 VDC Rated load: N.O 35 A at 14 VDC N.C. 25 A at 14 VDC * 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 VDC, 1 A voltage drop method)		

COIL

Power	
At nominal voltage (typical)	Sensitive - 0.9W Standard - 1.3W
Max. Continuous Dissipation	1.52 W/2.23 W at 20°C (68°F) ambient
Temperature Rise	48°C (108°F) at nominal coil voltage
Temperature	Max 125°C (257°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵		
Operate Time (max.)	5 ms max. at nominal coil voltage		
Release Time (max.)	2 ms max. at nominal coil voltage		
Dielectric Strength (at sea level for 1 min.)	500 VAC coil to contact 500 VAC between open contacts		
Insulation Resistance	100 megohms min. at 20°C, 500 VDC 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 105°C (211°F)		
Vibration	0.062" DA at 10-55 Hz		
Shock	10 g		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy		
Weight	21 grams		

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.



AZ9841

RELAY ORDERING DATA

SENSITIVE RELAYS					
COIL SPECIFICATIONS			ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	Form A (SPST)	Form C (SPDT)
6	3.6	7.8	40	AZ9841-1A-6DS	AZ9841-1C-6DS
12	7.2	15.6	160	AZ9841-1A-12DS	AZ9841-1C-12DS
24	14.4	31.2	640	AZ9841-1A-24DS	AZ9841-1C-24DS

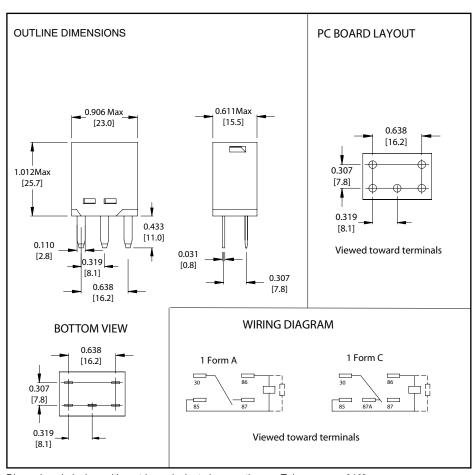
^{*}Add suffix "R" for a 680 ohm resistor in parallel with coil.

RELAY ORDERING DATA

STANDARD RELAYS					
COIL SPECIFICATIONS			ORDER NUMBER*		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	Form A (SPST)	Form C (SPDT)
6	3.6	7.8	27	AZ9841-1A-6D	AZ9841-1C-6D
12	7.2	15.6	109	AZ9841-1A-12D	AZ9841-1C-12D
24	14.4	31.2	436	AZ9841-1A-24D	AZ9841-1C-24D

^{*}Add suffix "R" for a 680 ohm resistor in parallel with coil.

MECHANICAL DATA



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

