

AZ980

80 AMP AUTOMOTIVE RELAY

FEATURES

- 80 Amp contact rating
- High momentary carry current
- High operating temperature (85°C)
- SPST N.O. (1 Form A), SPDT (1 Form C), SPST N.C. (1 Form B)
- Quick connect terminals
- ISO/TS 16949, ISO14001
- Tested in accordance with SAEJ2544

CONTACTS

Arrangement	SPST (1 Form A) SPST (1 Form B) SPDT (1 Form C)
Ratings	Resistive load: 1 Form A Max. switched power: 1120 W Max. switched current: 80 A Max. switched voltage: 28 VDC 1 Form B Max. switched power: 840 W Max. switched current: 60 A Max. switched voltage: 28 VDC 1 Form C Max. switched power: 840 W Max. switched current: 60 A Max. switched voltage: 28 VDC
Rated Load	Resistive load: 1 Form A 80 A at 14 VDC Resistive, 20°C 40 A at 28 VDC Resistive, 20°C 40 A at 14 VDC Resistive, 85°C 20 A at 28 VDC Resistive, 85°C 120 A at 28 VDC Resistive, 85°C (inrush for 3 seconds with make/break ratio 1:10) 1 Form B 60 A at 14 VDC Resistive, 20°C 30 A at 28 VDC Resistive, 20°C 30 A at 14 VDC Resistive, 85°C 15 A at 28 VDC Resistive, 85°C 1 Form C 60 A at 14 VDC Resistive, 20°C, (N.O.) 40 A at 28 VDC Resistive, 20°C, (N.O.) 40 A at 14 VDC Resistive, 85°C, (N.O.) 20 A at 28 VDC Resistive, 85°C, (N.O.) 60 A at 14 VDC Resistive, 20°C, (N.C.) 30 A at 28 VDC Resistive, 20°C, (N.C.) 30 A at 14 VDC Resistive, 85°C, (N.C.) 15 A at 28 VDC Resistive, 85°C, (N.C.)
Material	Silver tin oxide
Resistance	< 50 milliohms initially (at 24 V, 1 A, voltage drop method)



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 80 A 14 VDC Res.
Operate Time (typical)	7 ms at nominal coil voltage
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	500 Vrms coil to contact 500 Vrms between open contacts
Insulation Resistance	100 megohms min. at 500 VDC, 20°C 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	-40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" (1.5 mm) DA at 10-55 Hz
Shock	10 g
Enclosure	PA 66
Terminals	Copper alloy Quick Connect Note: Allow suitable slack on leads when wiring and do not subject the terminals to excessive force.
Weight	46 grams

COIL

Power At Pickup Voltage (typical)	0.76 W
Max. Continuous Dissipation	3.0 W at 20°C (68°F)
Temperature Rise	56°C (101°F) at nominal coil voltage
Temperature	Max.155°C (311°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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This product specification to be used only together with the application notes
which can be downloaded from <http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf>

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RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	SPST	SPDT
6	3.9	7.8	20	AZ980-1A-6D	AZ980-1C-6D
12	7.8	15.6	90	AZ980-1A-12D	AZ980-1C-12D
24	15.6	31.2	360	AZ980-1A-24D	AZ980-1C-24D

* For SPST (N.C.) (1 Form B) relay, substitute "1B" for "1A".

Add suffix "R" for resistor in parallel with coil. Resistor values: 6V: 180 Ω , 12V: 680 Ω , 24V: 2700 Ω .

Add suffix "D" for diode across coil option (+ pole of power supply at terminal #86).

Add suffix "E" for epoxy sealed version.

MECHANICAL DATA

Outline Dimensions	Wiring Diagrams
<p>Outline dimensions of the AZ980 relay. The top view shows a width of 1.142 [29.0]. The side view shows a height of 1.043 [26.5]. The terminal view shows dimensions for the coil terminals (2x.031 [.8], 3x.047 [1.2]) and the contact terminals (3x.598 [15.2], 2x.441 [11.2], 3x.374 [9.5], 2x.248 [6.3]). The terminal view also shows dimensions for the contact terminals (.705 [17.9], .327 [8.3], .661 [16.8], .311 [7.9]).</p>	<p>SPDT</p> <p>SPST (N.O.)</p> <p>VIEWED TOWARD TERMINALS</p>

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

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