

AZ9801

70 AMP SUPER-ISO AUTOMOTIVE RELAY

FEATURES

- 70 Amp contact rating – “Super ISO”
- High momentary carry current (500 A)
- High operating temperature (125°C)
- SPST (1 Form A)
- Quick connect terminals
- ISO/TS 16949, ISO9001, ISO14000
- Epoxy sealed version available



CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 980 W Max. switched current: 70 A Max. switched voltage: 50 VDC
Material	Silver tin oxide
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	0.68 W
Max. Continuous Dissipation	4.0 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.

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 70 A 14 VDC Res.
Operate Time (typical)	10 ms at nominal coil voltage
Release Time (typical)	7 ms at nominal coil voltage (with no coil suppression)
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	-40°C (-40°F) to 125°C (257°F) -40°C (-40°F) to 155°C (311°F)
Vibration	18g 10-500 Hz
Shock	30 g
Enclosure	P.B.T. polyester
Terminals	Copper alloy Quick Connect Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
Weight	40 grams

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9/18/14

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RELAY ORDERING DATA

COIL SPECIFICATIONS – STANDARD				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	ORDER NUMBER*
6	3.2	9	22.5	AZ9801-1A-6D
12	7.2	18	90	AZ9801-1A-12D
24	14.4	37	360	AZ9801-1A-24D
COIL SPECIFICATIONS – HI COIL POWER				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	ORDER NUMBER*
6	3.2	7	18	AZ9801-1A-6DH
12	7.2	14	72	AZ9801-1A-12DH
24	14.4	28	288	AZ9801-1A-24DH

* For parallel resistor add "R" to end of part number. Parallel resistor values: 6V: 180 ohms, 12V: 680 ohms, 24V: 2700 ohms. Add suffix "E" for epoxy sealed version.

HARDWARE ORDERING DATA

DESCRIPTION	ORDER NUMBER
Socket	ST980

MECHANICAL DATA

Outline Dimensions	Wiring Diagrams
<p>Outline Dimensions</p> <p>Dimensions: 1.03 [26.2], .980 [24.9], .705 [17.9], .327 [8.3], .561 [16.8], 2x.031 [.8], 2x.047 [1.2], 3x.598 [15.2], 2x.374 [9.5], 2x.248 [6.3], 2x.441 [11.2]</p>	<p>Wiring Diagrams</p> <p>SPST (N.O.)</p> <p>VIEWED TOWARD TERMINALS</p>
<p>Socket, SPST - ST980</p> <p>Dimensions: .761 [19.33], .206 [5.23], .292 [7.43], .697 [17.72], .319 [8.12], .632 [16.05], .729 [18.53], .967 [24.56], .903 [22.94], 1.265 [32.13], 1.147 [29.12]</p>	<p>Note: Recommended socket hardware:</p> <p>Coil Terminals: Amp 42281-1 (1/4") 14-18 Awg Contact Terminals: Amp 280756-4 (3/8") 10-12 Awg</p>

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