

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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RELAY ORDERING DATA

COIL SPECIFICATIONS – STANDARD				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	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 $\pm 10\%$	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

Dimensions shown: 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].

Wiring Diagrams

SPST (N.O.)

VIEWED TOWARD TERMINALS

Socket, SPST - ST980

Dimensions shown: .761 [19.33], .206 [5.23], .292 [7.43], .697 [17.72], 1.265 [32.13], 1.147 [29.12], .319 [8.12], .632 [16.05], .729 [18.53], .967 [24.56], .903 [22.94].

Note: Recommended socket hardware:
 Coil Terminals: Amp 42281-1 (1/4") 14-18 Awg
 Contact Terminals: Amp 280756-4 (3/8") 10-12 Awg

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

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9/18/14

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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.