

AZ757

16 AMP MINIATURE POWER RELAY

FEATURES

- Low cost
- 16 Amp switching
- Class B (130°C) insulation system standard, Class F (155°C) system available
- Quick connect terminals
- Epoxy sealed for automatic wave soldering
- 10 kV Surge
- UL, CUR file E43203



CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 480 W or 4000 VA Max. switched current: 16 A Max. switched voltage: 150* VDC or 400 VAC *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	16 A at 250 VAC, general use 16 A at 30 VDC resistive
Material	Silver tin oxide
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power At Pickup Voltage (typical)	245 mW
Max. Continuous Dissipation	.85 W at 20°C (68°F) ambient
Temperature Rise	55°C (99°F) at nominal coil voltage
Temperature	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class 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 16 A 250 VAC Res.
Operate Time (typical)	8 ms at nominal coil voltage
Release Time (typical)	4 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 1000 Vrms between open contacts
Surge	10000 V contact to coil (1.2 x 50 μ s)
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 130°C (266°F)
Vibration	0.062" DA at 10–55 Hz
Shock Operating Non-Operating	10 g, 11 ms, 1/2 sine (no false operation) 100 g, 11 ms, 1/2 sine (no damage)
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy P.C. & quick connect 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	4.6 grams



AMERICAN ZETTLER, INC.

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RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Form A Unsealed	Form A Sealed
5	3.5	6.5	50	AZ757-1A-5D	AZ757-1A-5DE
6	4.2	7.8	72	AZ757-1A-6D	AZ757-1A-6DE
9	6.3	11.7	162	AZ757-1A-9D	AZ757-1A-9DE
12	8.4	15.6	288	AZ757-1A-12D	AZ757-1A-12DE
18	12.6	23.4	648	AZ757-1A-18D	AZ757-1A-18DE
24	16.8	31.2	1152	AZ757-1A-24D	AZ757-1A-24DE

*Add suffix "F" for Class F.

MECHANICAL DATA

Outline Dimensions	PC BOARD LAYOUT	WIRING DIAGRAM
<p>Top View Dimensions: 0.09 [2.15], 0.24 [6.00], 0.02 [0.50], 0.98 MAX [24.7], 0.02 [0.50], 0.06 [1.50], 0.020 [0.50], 0.91 MAX [23.1], 0.68 [17.20], 0.02 [0.60], 0.30 [7.50].</p> <p>Side View Dimensions: 0.25 [6.35], 0.33 [8.30], 0.30 [7.50], 0.49 MAX [12.5].</p> <p>Front View Dimensions: 0.68 [17.20], 0.02 [0.60], 0.30 [7.50].</p>	<p>PC Board Layout Dimensions: 0.68 [17.20], 0.02 [0.60], 0.30 [7.50].</p>	<p>Wiring Diagram: Shows the internal electrical connections of the relay, including the coil and contact points.</p>

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



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