

AZ944

16 AMP LOW PROFILE POWER RELAY

FEATURES

- High power switching (2000 VA)
- High sensitivity, 128 mW pickup
- Low profile (less than .5" height)
- SPST (1 Form A), SPDT (1 Form C)
- DC coils up to 100 VDC
- Class B (130°C) and Class F (155°C) insulation systems available
- UL, CUR file E44211



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 300 W, 2000 VA (SPST) 150 W, 1250 VA (SPDT) Max. switched current: 16 A (SPST), 10 A (SPDT) Max. switched voltage: 250 VAC/125 VDC* *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR SPST	16 A at 125 VAC, resistive 8 A at 250 VAC, resistive 10 A at 30 VDC, resistive 1/4 HP 125 VAC 1/10 HP 277 VAC
SPDT	10 A at 125 VAC, resistive 5 A at 277 VAC, 30 VDC, resistive 1/10 HP 277 VAC
Material	Silver cadmium oxide
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power At Pickup Voltage (typical)	Form A: 128 mW Form C: 256 mW
Max. Continuous Dissipation	1.5 W at 20°C (68°F)
Temperature Rise	Form A: 16°C (29°F) at nominal coil voltage Form C: 28°C (50°F) at nominal coil voltage
Temperature	Max. 115°C (239°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 10 A 120 VAC Res.
Operate Time (typical)	10 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.)	1500 Vrms coil to contact 1000 Vrms contact to contact
Insulation Resistance	100 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 85°C (185°F), Form C -40°C (-40°F) to 95°C (203°F), Form A
Storage	-40°C (-40°F) to 115°C (239°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
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	8 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.



AMERICAN ZETTLER, INC.

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RELAY ORDERING DATA

COIL SPECIFICATIONS SPST-NO (1 Form A)				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Unsealed	Sealed
5	4.0	13.7	125	AZ944-1AH-5D	AZ944-1AH-5DE
6	4.8	16.4	180	AZ944-1AH-6D	AZ944-1AH-6DE
9	7.2	24.6	405	AZ944-1AH-9D	AZ944-1AH-9DE
12	9.6	32.8	720	AZ944-1AH-12D	AZ944-1AH-12DE
18	14.4	49.3	1620	AZ944-1AH-18D	AZ944-1AH-18DE
24	19.2	65.7	2,880	AZ944-1AH-24D	AZ944-1AH-24DE
48	38.4	131.4	11,520	AZ944-1AH-48D	AZ944-1AH-48DE
100	80.0	157.8	16,600	AZ944-1AH-100D	AZ944-1AH-100DE

COIL SPECIFICATIONS SPDT-NO (1 Form C)				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Unsealed	Sealed
5	4.0	9.7	62.5	AZ944-1C-5D	AZ944-1C-5DE
6	4.8	11.6	90	AZ944-1C-6D	AZ944-1C-6DE
9	7.2	17.4	202	AZ944-1C-9D	AZ944-1C-9DE
12	9.6	23.2	360	AZ944-1C-12D	AZ944-1C-12DE
18	14.4	34.8	810	AZ944-1C-18D	AZ944-1C-18DE
24	19.2	46.4	1,440	AZ944-1C-24D	AZ944-1C-24DE
48	38.4	92.9	5,760	AZ944-1C-48D	AZ944-1C-48DE
100	80.0	157.7	16,600	AZ944-1C-100D	AZ944-1C-100DE

*Add suffix "B" for Class B insulation system or "F" for Class F insulation system.

MECHANICAL DATA

WIRING DIAGRAM

Viewed toward terminals

PC BOARD LAYOUT

Viewed toward terminals

Hole 5 not needed for SPST-NO model

Dimensions in inches with metric equivalents in parentheses. Tolerance: ± 0.010 "



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