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 30 VDC, 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** **Storage**	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 -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.

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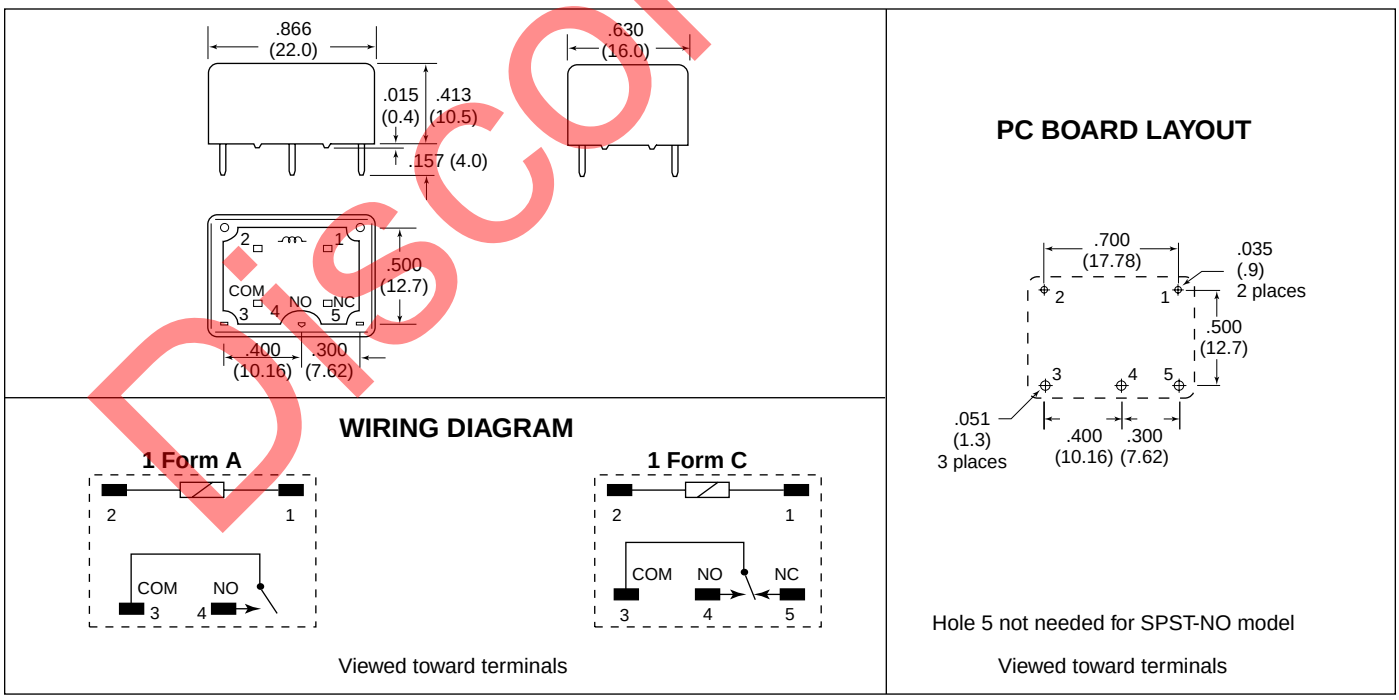
RELAY ORDERING DATA

COIL SPECIFICATIONS SPST-NO (1 Form A)				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ±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 ±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



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

PHONE: (949) 831-5000 www.azettler.com E-MAIL: SALES@AZETTLER.COM