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# AZ948

# **16 AMP LOW PROFILE POWER RELAY**

## **FEATURES**

- High power switching (4000 VA)
- High sensitivity, 128 mW pickup
- Low profile (less than .5" height)
- SPST (1 Form A)
- Epoxy sealed version available
- UL file E44211; CSA file LR 702514

#### CONTACTS

Arrangement	SPST (1 Form A)			
Ratings Standard	Resistive load: Max. switched power: 300 W, 2500 VA Max. switched current: 10 A Max. switched voltage: 250 VAC/125 VDC			
Heavy Duty	Max. switched power: 480 W, 4000 VA Max. switched current: 16 A Max. switched voltage: 250 VAC/125 VDC*			
507	*Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.			
Rated Load UL	Standard: 10 A at 30 VDC/250 VAC Heavy Duty: 10 A at 30 VDC 16 A at 250 VAC			
Min. Load	5 VDC, 0.1 A			
Material	Silver alloy			
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)			

# COIL

Power At Pickup Voltage (typical)	200 mW
Max. Continuous Dissipation	1.8 W at 20°C (68°F) 1.3 W at 40°C (104°F)
Temperature Rise	16°C (29°F) at nominal coil voltage
Temperature	Max. 115°C (239°F)

WWW

#### 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

	CD M		
Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at rated load		
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 10% of nominal coil voltage 100 V coil $\ge$ 6 VDC		
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) 3-48 V coils -40°C (-48°F) to 60°C (140°F) 100 V coil -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		

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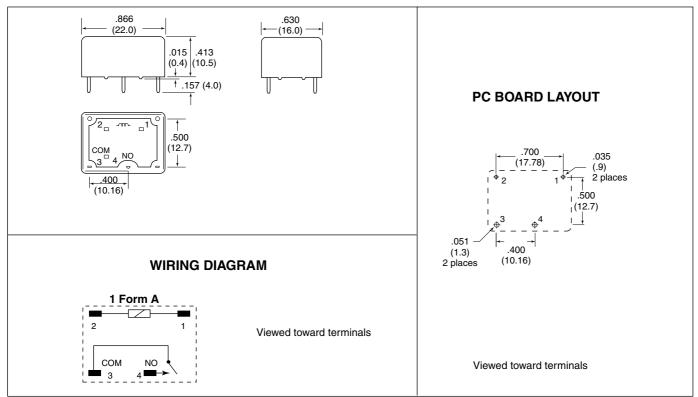


### RELAY ORDERING DATA

COIL SPECIFICATIONS SPST-NO (1 Form A) Standard Contact: 10A			ORDER NUMBER		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ±10%	Unsealed	Sealed
5	4.0	15.0	125	AZ948–1A–5D	AZ948–1A–5DE
6	4.8	18.0	180	AZ948–1A–6D	AZ948–1A–6DE
9	7.2	27.0	405	AZ948–1A–9D	AZ948–1A–9DE
12	9.6	36.0	720	AZ948–1A–12D	AZ948–1A–12DE
24	19.2	72.0	2,880	AZ948–1A–24D	AZ948–1A–24DE
48	38.4	144.0	11,520	AZ948–1A–48D	AZ948–1A–48DE
100	48.0	110.0	18,000	AZ948–1A–100D	AZ948–1A–100DE

COIL SPECIFICATIONS SPST-NO (1 Form A) Heavy Duty Contact: 16A			ORDER NUMBER		
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ±10%	Unsealed	Sealed
5	4.0	15.0	125	AZ948–1AT–5D	AZ948–1AT–5DE
6	4.8	18.0	180	AZ948–1AT–6D	AZ948–1AT–6DE
9	7.2	27.0	405	AZ948–1AT–9D	AZ948–1AT–9DE
12	9.6	36.0	720	AZ948–1AT–12D	AZ948–1AT–12DE
24	19.2	72.0	2,880	AZ948–1AT–24D	AZ948–1AT–24DE
48	38.4	144.0	11,520	AZ948–1AT–48D	AZ948–1AT–48DE
100	48.0	110.0	18,000	AZ948–1AT–100D	AZ948–1AT–100DE

#### MECHANICAL DATA



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

# ZETTLER electronics

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