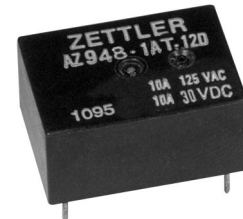


# AZ948

## 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
- DC coils up to 100 VDC
- UL file E44211; CSA file LR 702514



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A)
<b>Ratings Heavy Duty</b>	<b>Resistive load:</b> Max. switched power: 480 W, 4000 VA Max. switched current: 16 A Max. switched voltage: 250 VAC/125 VDC*  *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load UL</b>	10 A at 30 VDC, 100k cycles 16 A at 277 VAC, 100k cycles 1/10 HP at 125 VAC, 250 VAC or 277 VAC, 100k cycles
<b>Material</b>	Silver cadmium oxide or silver tin oxide
<b>Resistance</b>	< 50 milliohms initially (24 V, 1 A voltage drop method)

### COIL

<b>Power At Pickup Voltage (typical)</b>	128 mW
<b>Max. Continuous Dissipation</b>	1.8 W at 20°C (68°F)
<b>Temperature Rise</b>	16°C (29°F) at nominal coil voltage
<b>Temperature</b>	Max. 115°C (239°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

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 10 A 250 VAC Res.
<b>Operate Time (typical)</b>	10 ms at nominal coil voltage
<b>Release Time (typical)</b>	4 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	1500 Vrms coil to contact 1000 Vrms contact to contact
<b>Insulation Resistance</b>	100 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage 100 V coil ≥ 6 VDC
<b>Ambient Temperature Operating</b>	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) 3-48 V coils -40°C (-40°F) to 60°C (140°F) 100 V coil
<b>Storage</b>	-40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" (1.5 mm) DA at 10-55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	8 grams

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# AZ948

## RELAY ORDERING DATA

COIL SPECIFICATIONS SPST-NO (1 Form A)				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	AgCdO contacts	AgSnO2 contacts
5	4.0	15.0	125	AZ948-1AT-5D	AZ948-1AET-5D
6	4.8	18.0	180	AZ948-1AT-6D	AZ948-1AET-6D
9	7.2	27.0	405	AZ948-1AT-9D	AZ948-1AET-9D
12	9.6	36.0	720	AZ948-1AT-12D	AZ948-1AET-12D
24	19.2	72.0	2,880	AZ948-1AT-24D	AZ948-1AET-24D
48	38.4	144.0	11,520	AZ948-1AT-48D	AZ948-1AET-48D
100	48.0	180.0	18,000	AZ948-1AT-100D	AZ948-1AET-100D

\*Add suffix "E" for epoxy sealed version.

## MECHANICAL DATA

Top view dimensions: .866 (22.0) width, .630 (16.0) width, .015 (0.4) height, .413 (10.5) height, .157 (4.0) height.

Side view dimensions: .500 (12.7) height.

Terminal view dimensions: .400 (10.16) width, .500 (12.7) height.

### PC BOARD LAYOUT

PC Board Layout dimensions: .700 (17.78) width, .035 (.9) height (2 places), .500 (12.7) height, .400 (10.16) width, .051 (1.3) height (2 places).

### WIRING DIAGRAM

**1 Form A**

Viewed toward terminals

Viewed toward terminals

Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm 0.010$ "