

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 versions available
- DC coils up to 100 VDC
- UL file E44211



CONTACTS

| | |
|-----------------------|--|
| Arrangement | SPST (1 Form A) |
| Ratings Heavy Duty | Resistive load: Max. switched power: 480 W, 4432 VA Max. switched current: 16 A Max. switched voltage: 277 VAC/125 VDC* *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory. |
| Rated Load UL | 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 |
| Material | Silver tin oxide |
| Resistance | < 50 milliohms initially (24 V, 1 A voltage drop method) |

COIL

| | |
|---|---|
| Power At Pickup Voltage (typical) | 128 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) |

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 10 A 250 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 10% of nominal coil voltage 100 V coil ±6 VDC |
| Ambient Temperature Operating | 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 |
| 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 |

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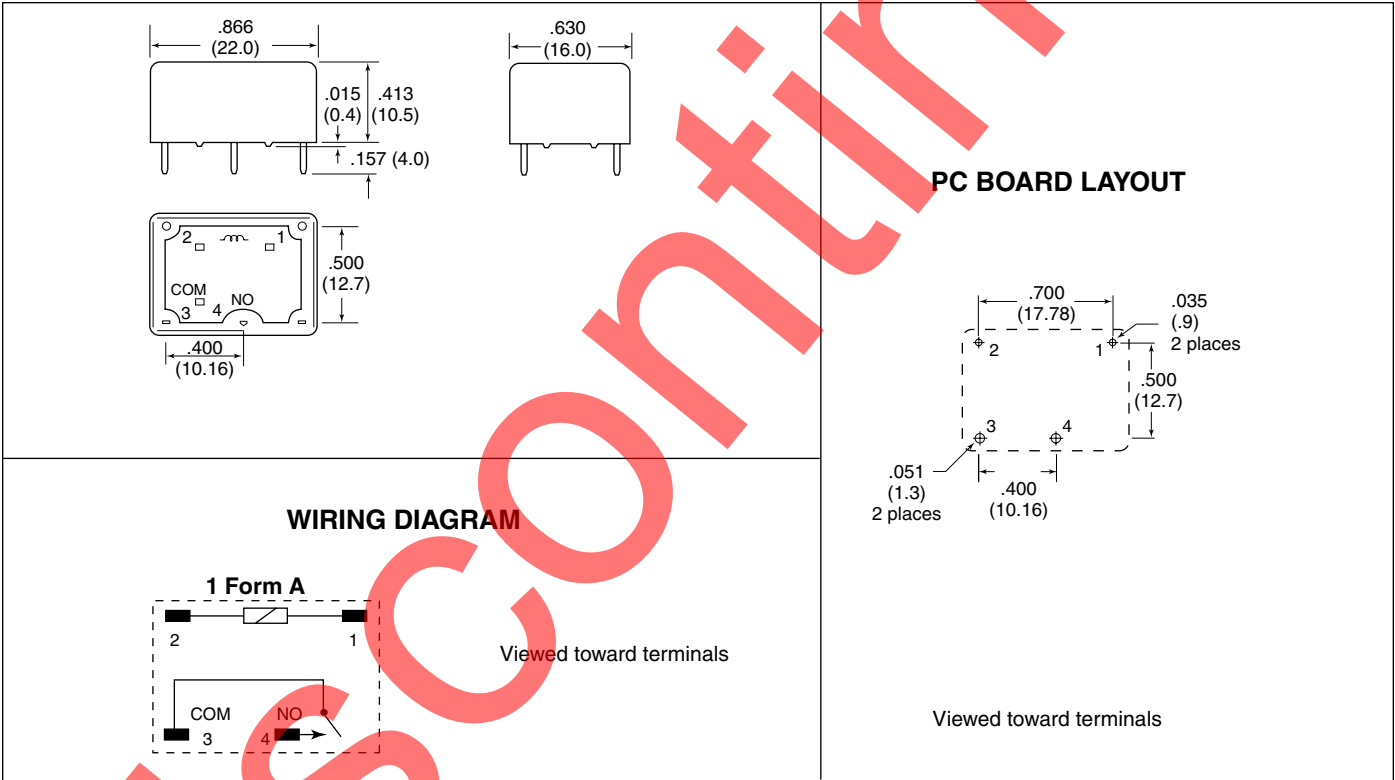
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RELAY ORDERING DATA

| 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 | 15.0 | 125 | AZ948-1AET-5D | AZ948-1AET-5DE |
| 6 | 4.8 | 18.0 | 180 | AZ948-1AET-6D | AZ948-1AET-6DE |
| 9 | 7.2 | 27.0 | 405 | AZ948-1AET-9D | AZ948-1AET-9DE |
| 12 | 9.6 | 36.0 | 720 | AZ948-1AET-12D | AZ948-1AET-12DE |
| 24 | 19.2 | 72.0 | 2,880 | AZ948-1AET-24D | AZ948-1AET-24DE |
| 48 | 38.4 | 144.0 | 11,520 | AZ948-1AET-48D | AZ948-1AET-48DE |
| 100 | 48.0 | 180.0 | 18,000 | AZ948-1AET-100D | AZ948-1AET-100DE |

MECHANICAL DATA



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