

# AZ962

## 10 AMP MINIATURE PC BOARD RELAY



### FEATURES

- Extremely low cost
- High CTI (300) version available
- Class F insulation (155°C) standard
- UL, CUR file E44211
- VDE file 40004578

### CONTACTS

|                    |  |
|--------------------|--|
| <b>Arrangement</b> | SPST (1 Form A)<br>SPDT (1 Form C)   |
| <b>Ratings</b>     | Form A and C<br>Max. switched power: 2500 VA<br>Max. switched current: 10 A AC<br>Max. switched voltage: 415 VAC   |
| <b>UL/CUR</b>      | 1 Form A - Standard and High CTI<br>10 A at 250 VAC, General Purpose, 20k cycles<br>6 A at 415 VAC, Resistive<br>1/10 HP at 120 VAC<br>1/4 HP at 240 VAC   |
| <b>VDE</b>         | 1 Form C - Standard and High CTI<br>10 A (N.O.), 5 A (N.C.) at 120 VAC, General Purpose,<br>25k cycles<br>1 Form C - Standard and High CTI at 85°C<br>10 A (N.O.), 3 A (N.C.) at 250 VAC, 30k cycles |
| <b>Material</b>    | Silver nickel  |
| <b>Resistance</b>  | < 100 milliohms initially<br>(24 V, 1 A method)  |

### COIL

|                                   |  |
|-----------------------------------|--|
| <b>Power</b>                      |  |
| <b>At Pickup Voltage</b>          | 200 mW   |
| <b>Max Continuous Dissipation</b> | 1.8 W at 20°C (68°F) Class F<br>1.2 W at 20°C (68°F) Class A |
| <b>Temperature Rise</b>           | 33°C (59.4°F) at nominal coil voltage                        |
| <b>Temperature</b>                | Max. 155°C (311°F) Class F<br>Max. 105°C (221°F) Class A     |

### GENERAL DATA

|  |  |
|--|--|
| <b>Life Expectancy</b>                               |  |
| <b>Mechanical</b>                                    | 5 x 10 <sup>6</sup>  |
| <b>Electrical</b>                                    | 2.5 x 10 <sup>4</sup> at 10 A 250 VAC Res.                                       |
| <b>Operate Time (Typical)</b>                        | 15 ms  |
| <b>Release Time (Typical)</b>                        | 10 ms<br>(with no coil suppression)  |
| <b>Dielectric Strength (at sea level for 1 min.)</b> | 2500 Vrms contact to coil<br>1000 Vrms across contacts                           |
| <b>Insulation Resistance</b>                         | 100 megohms min. at 500 VDC,<br>50% RH   |
| <b>Dropout</b>                                       | Greater than 10% of nominal coil voltage   |
| <b>Ambient Temperature</b>                           | At nominal coil voltage  |
| <b>Operating</b>                                     | -40°C(-40°F) to 85°C (185°F) High CTI<br>-40°C(-40°F) to 85°C (185°F) Standard   |
| <b>Storage</b>                                       | -40°C(-40°F) to 105°C (221°F) High CTI<br>-40°C(-40°F) to 155°C (311°F) Standard |
| <b>Vibration</b>                                     | >4g at 30-400 Hz   |
| <b>Shock</b>   | >10g (functional)<br>>30g (destructive)  |
| <b>Enclosure</b>                                     | P.E.T. polyester   |
| <b>Terminals</b>                                     | Tinned copper alloy, P.C.  |
| <b>Max. Solder Temp.</b>                             | 260°C (500°F)  |
| <b>Max. Solder Time</b>                              | 5 seconds  |
| <b>Weight</b>  | 5.4 g  |

### NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Unsealed relays should not be dip cleaned.
4. Specifications subject to change without notice.



**AMERICAN ZETTLER, INC.**

[www.azettler.com](http://www.azettler.com)

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# AZ962

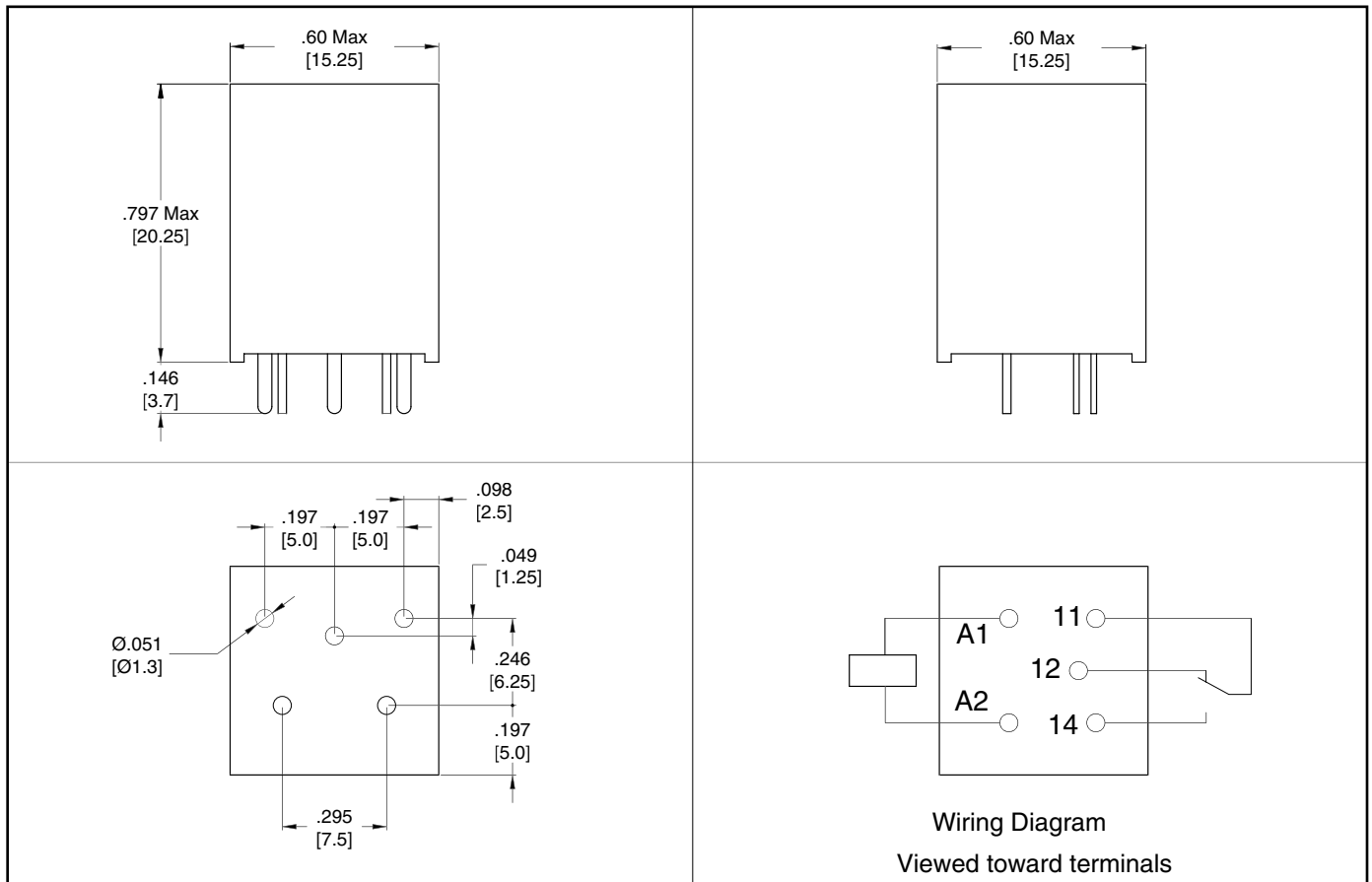
## RELAY ORDERING DATA

| STANDARD RELAYS – CLASS F INSULATION, CTI 250 |                     |                            |                  | ORDER NUMBER  |               |
|---|---------------------|----------------------------|------------------|---------------|---------------|
| COIL SPECIFICATIONS                           |                     |                            |                  | ORDER NUMBER  |               |
| Nominal Coil VDC                              | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC | 1 Form A      | 1 Form C      |
| 6   | 13.5                | 100                        | 4.5              | AZ962-1A-6DF  | AZ962-1C-6DF  |
| 12  | 27.0                | 400                        | 9.0              | AZ962-1A-12DF | AZ962-1C-12DF |
| 24  | 54.0                | 1600                       | 18.0             | AZ962-1A-24DF | AZ962-1C-24DF |

| HIGH CTI RELAYS – CLASS A INSULATION, CTI 300 |                     |                            |                  | ORDER NUMBER  |               |
|---|---------------------|----------------------------|------------------|---------------|---------------|
| COIL SPECIFICATIONS                           |                     |                            |                  | ORDER NUMBER  |               |
| Nominal Coil VDC                              | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC | 1 Form A      | 1 Form C      |
| 6   | 11.0                | 100                        | 4.5              | AZ962-1A-6DH  | AZ962-1C-6DH  |
| 12  | 22.0                | 400                        | 9.0              | AZ962-1A-12DH | AZ962-1C-12DH |
| 24  | 44.0                | 1600                       | 18.0             | AZ962-1A-24DH | AZ962-1C-24DH |

## MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010$ "



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