

# 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) SPDT (1 Form C)
<b>Ratings</b>	Form A and C Max. switched power: 2500 VA Max. switched current: 10 A AC Max. switched voltage: 415 VAC
<b>UL/CUR</b>	1 Form A - Standard and High CTI 10 A at 250 VAC, General Purpose, 20k cycles 6 A at 415 VAC, Resistive 1/10 HP at 120 VAC 1/4 HP at 240 VAC
<b>VDE</b>	1 Form C - Standard and High CTI 10 A (N.O.), 5 A (N.C.) at 120 VAC, General Purpose, 25k cycles 1 Form A and 1 Form C - High Temperature 6 A at 240 VAC General Purpose 6 A at 415 VAC Resistive
<b>VDE</b>	1 Form C - Standard and High CTI at 85°C 10 A (N.O.), 3 A (N.C.) at 250 VAC, 30k cycles 1 Form C - High Temperature at 105°C 6.5 A at 250 VAC, 10k cycles 1 Form A - High Temperature at 105°C 6.5 A at 250 VAC, 100k cycles
<b>Material</b>	Silver nickel
<b>Resistance</b>	< 100 milliohms initially (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 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 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 (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	2500 Vrms contact to coil 1000 Vrms across contacts
<b>Insulation Resistance</b>	100 megohms min. at 500 VDC, 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 -40°C(-40°F) to 85°C (185°F) Standard -40°C(-40°F) to 105°C (221°F) High Temperature
<b>Storage</b>	-40°C(-40°F) to 105°C (221°F) High CTI -40°C(-40°F) to 155°C (311°F) Standard -40°C(-40°F) to 155°C (311°F) High Temperature
<b>Vibration</b>	>4g at 30-400 Hz
<b>Shock</b>	>10g (functional) >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)

75 COLUMBIA ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 FAX: (949) 831-8642 E-MAIL: SALES@AZETTLER.COM

8/14/03W

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## 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

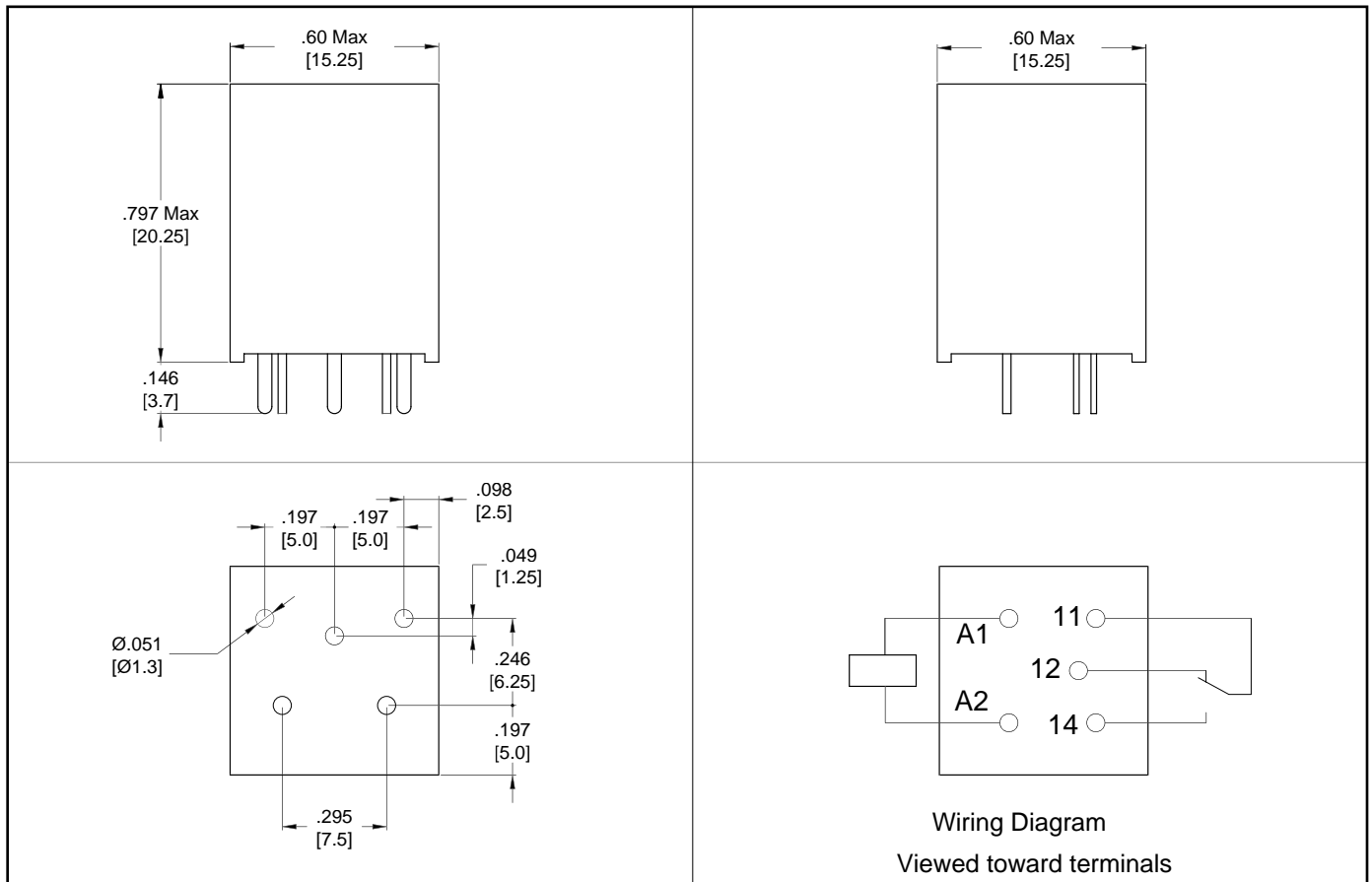
  

HIGH CTI RELAYS – CLASS A INSULATION, CTI 300				ORDER NUMBER	
COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	1 Form A	1 Form C
6	11.0	100	4.5	AZ962-1A-6DH	AZ962-1C-6DH
12	22.0	400	9.0	AZ962-1A-12DH	AZ962-1C-12DH
24	44.0	1600	18.0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

HIGH TEMPERATURE 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-6DT	AZ962-1C-6DT
12	27.0	400	9.0	AZ962-1A-12DT	AZ962-1C-12DT
24	54.0	1600	18.0	AZ962-1A-24DT	AZ962-1C-24DT

## MECHANICAL DATA



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



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