

# AZ762F

## 20 A SPST MINIATURE POWER RELAY WITH QUICK CONNECTS

### FEATURES

- High temperature operation 125°C
- Dielectric strength 5000 Vrms
- 10 kV surge withstand
- Epoxy sealed versions available
- 20 Amp switching
- Low profile Quick connects (0.618")
- Class F (155°C) standard
- Isolation spacing greater than 10 mm
- UL, CUR file E44211, VDE 40006031



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A, 1 Form B)
<b>Ratings</b>	Resistive load: Max. switched power: 600 W or 5540 VA Max. switched current: 20 A Max. switched voltage: 150* VDC or 440 VAC <small>*Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.</small>
<b>Rated Load UL, CUR</b>	20 A at 277 VAC general use, 100k cycles
<b>VDE</b>	18 A at 250 VAC, Res., 20k cycles (N.O.) 16 A at 250 VAC, Res., 80k cycles 12 A at 400 VAC, Res., 80k cycles
<b>Material</b>	Silver nickel, (gold plating available)
<b>Resistance</b>	< 50 milliohms initially (using 6 V 1 A method)

### COIL

<b>Power</b>	
<b>At Pickup Voltage (typical)</b>	196 mW
<b>Max. Continuous Dissipation</b>	1.7 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	26°C (47°F) at nominal coil voltage
<b>Max. Temperature</b>	155° (311°F)

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 20 A 277 VAC general use
<b>Operate Time (typical)</b>	7 ms at nominal coil voltage
<b>Release Time (typical)</b>	3 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	5000 Vrms coil to contact 1000 Vrms between open contacts
<b>Insulation Resistance</b>	1000 megohms min. at 20°C 500 VDC 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 125°C (257°F) -40°C (-40°F) to 155°C (311°F)
<b>Vibration</b>	0.062" 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., QC
<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>	14 grams

### 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.



**AMERICAN ZETTLER, INC.**

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

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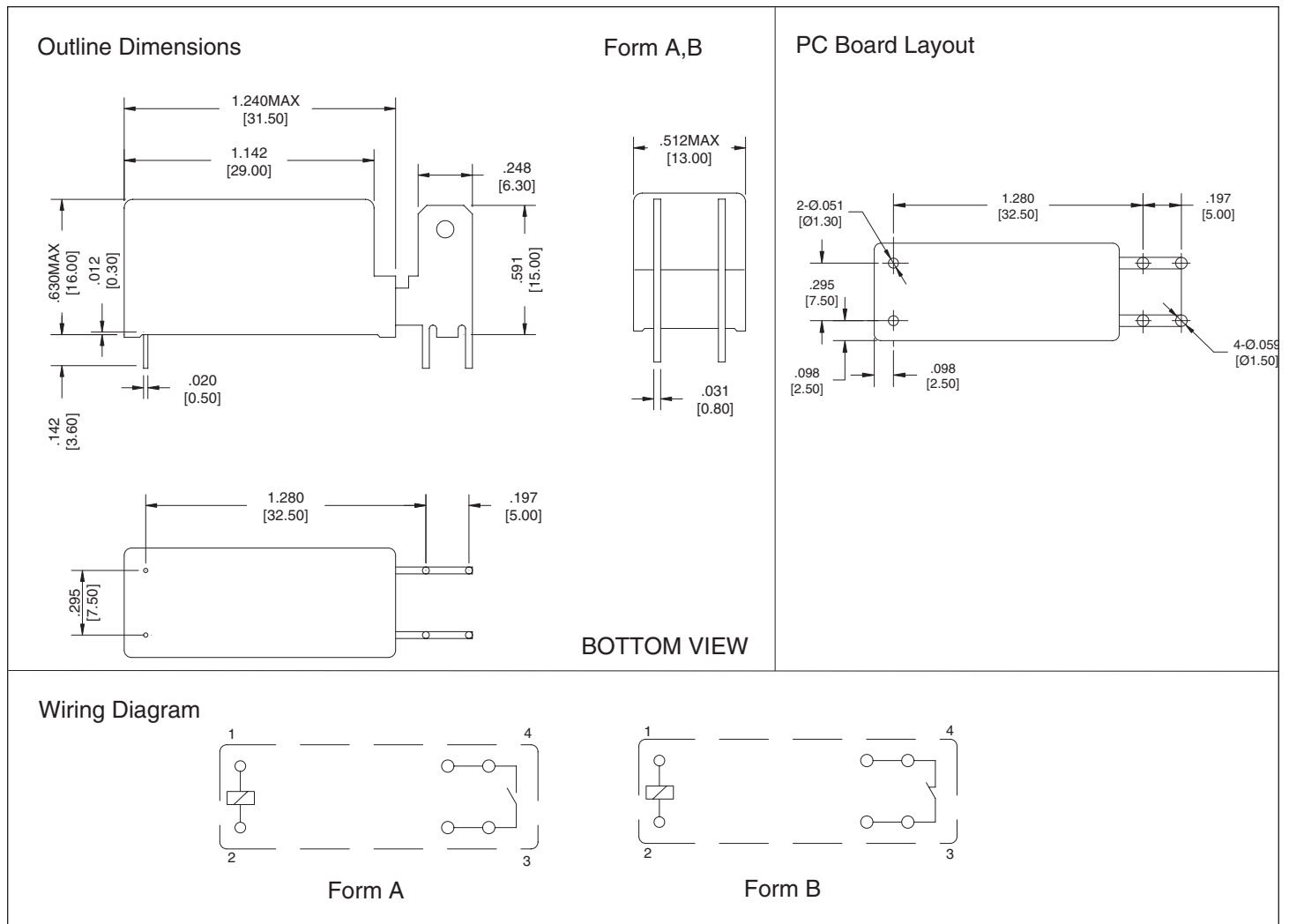
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## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance	Unsealed	Sealed
5	3.5	10.2	62 ± 10%	AZ762F-1A-5DF	AZ762F-1A-5DEF
6	4.2	12.3	90 ± 10%	AZ762F-1A-6DF	AZ762F-1A-6DEF
12	8.4	24.7	360 ± 10%	AZ762F-1A-12DF	AZ762F-1A-12DEF
24	16.8	49.4	1,440 ± 10%	AZ762F-1A-24DF	AZ762F-1A-24DEF
48	33.6	98.0	5,760 ± 15%	AZ762F-1A-48DF	AZ762F-1A-48DEF
60	42.0	112.9	7,500 ± 15%	AZ762F-1A-60DF	AZ762F-1A-60DEF

\*Substitute "-1B" in place of "-1A" for 1 Form B. For gold plated contacts change "DF" to "DAF" or "DEF" to "DEAF".

## MECHANICAL DATA



Dimensions in inch with millimeters in brackets below. Tolerance: ± .010"



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