

# AZ2150W

## 30 AMP MINIATURE POWER RELAY

### FEATURES

- 1.75 mm contact gap
- DC coils up to 48V
- High dielectric strength version available
- All plastics PTI 250
- Epoxy sealed versions available
- UL Class F (155°C) standard
- UL, CUR E44211
- VDE certificate 40023154



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A)
<b>Ratings</b>	Resistive load: Max. switched power: 900W or 8310VA Max. switched current: 30A Max. switched voltage: 250 VDC* or 440 VAC  * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
<b>UL, CUR</b>	30A at 277 VAC, General Use, Resistive
<b>VDE</b>	20A at 263 VAC, AC7a, 8K, 85°C (T version only)
<b>Material</b>	Silver tin oxide
<b>Resistance</b>	< 50 milliohms initially (24V, 1A voltage drop method)

### COIL

<b>Power</b>	
<b>At Pickup Voltage (typical)</b>	625mW
<b>Max. Continuous Dissipation</b>	1.7W at 20°C (68°F) ambient
<b>Temperature Rise</b>	43°C (77°F) at nominal coil voltage
<b>Max. Temperature</b>	155°C (311°F) Class 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.
4. If higher electrical loads are to be switched by the relay contacts, the vent nib has to be opened prior to use of the relay.

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 2 x 10 <sup>5</sup> 3 x 10 <sup>4</sup> at 30 A 250 VAC Res.
<b>Operate Time</b>	15 msec max. at nominal coil voltage
<b>Release Time</b>	10 msec max. at nominal coil voltage (without suppression)
<b>Dielectric Strength</b> (at sea level for 1 min.)	1500Vrms between open contacts 2500 Vrms contact to coil 4000 Vrms contact to coil "T" Version
<b>Holding Voltage</b>	Greater than 50% of nominal coil voltage
<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</b> <b>Operating</b> <b>Storage</b>	-40°C (-40°F) to 85°C (185°F) - DC coils
<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>	25 grams
<b>Packing unit in pcs</b>	40 per plastic tray / 280 per carton box

**AMERICAN ZETTLER, INC.** [www.azettler.com](http://www.azettler.com)

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# AZ2150W

## RELAY ORDERING DATA

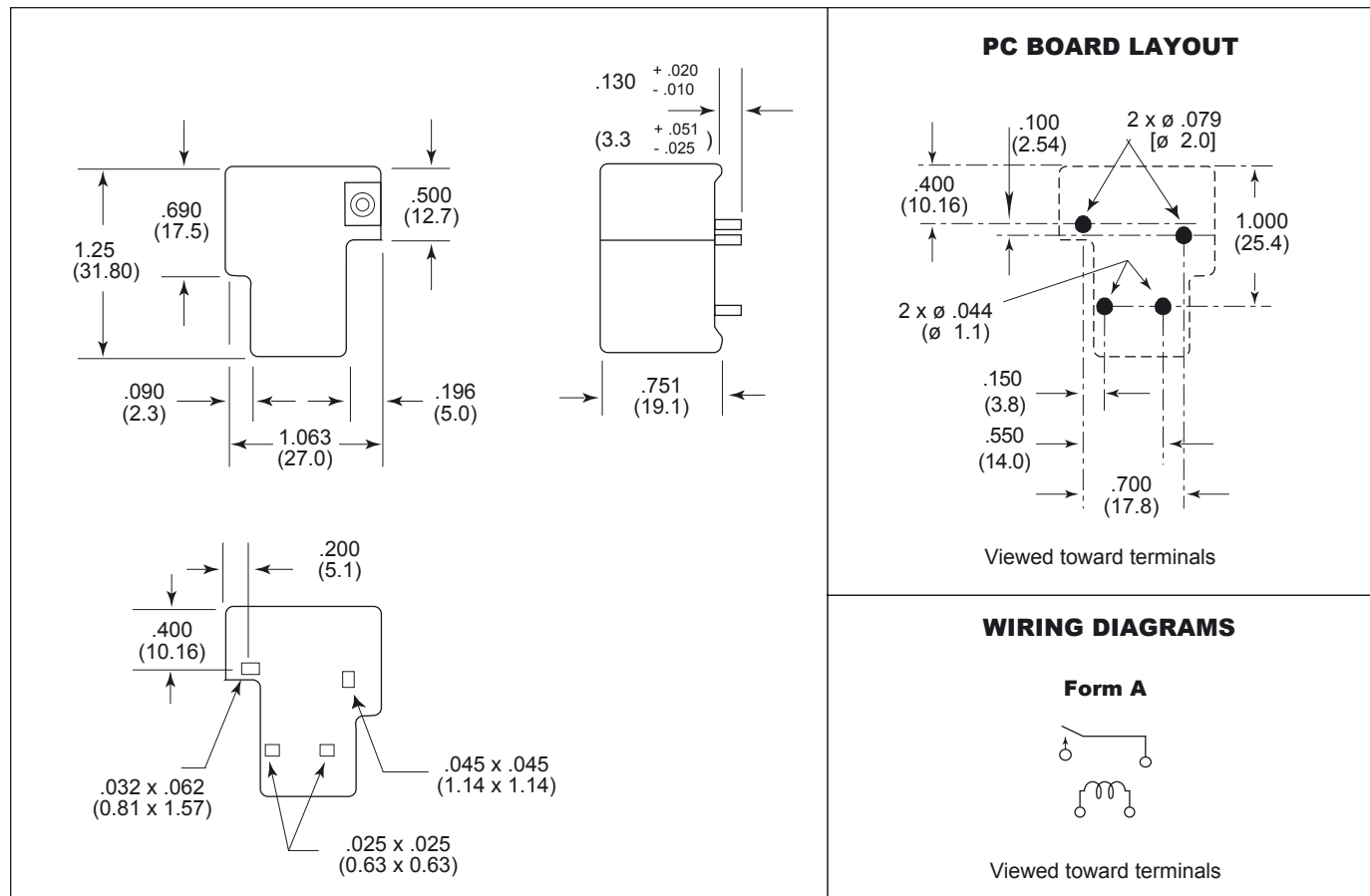
COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Min. Holding VDC	Coil Resistance Ohm $\pm 10\%$	
5	3.75	6.0	2.5	22.5	AZ2150W-1AE-5DF
6	4.50	7.2	3.0	32.5	AZ2150W-1AE-6DF
9	6.75	10.8	4.5	73	AZ2150W-1AE-9DF
12	9.0	14.4	6.0	130	AZ2150W-1AE-12DF
24	18.0	38.8	12.0	520	AZ2150W-1AE-24DF
48	36.0	57.6	24.0	2,080	AZ2150W-1AE-48DF

\* Substitute "DEF" in place of "DF" for epoxy sealed version.

Add "T" at the end of part number for 4000Vrms dielectric strength VDE version, 3000Vrms UL version.

Coils 5VDC, 6VDC, 48VDC, not VDE approved.

## MECHANICAL DATA



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

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