

# AZEV116/132

# PRELIMINARY

## 16A /32A

## POWER RELAY

### FEATURES:

- 16 Amp switching (AZEV116)
- 32 Amp switching (AZEV132)
- Potential free N.C. signal contact
- 1500 Amp short circuit current (carrying)
- Wide contact gap > 2.25 mm
- Dielectric strength 4000 Vrms



Preliminary

### CONTACTS:

<b>Arrangement</b>	DPST (1 Form A and 1 Form B)
<b>Ratings</b>	Resistive load: AZEV116 Max. switched power: 480 W or 4432 VA Max. switched current: 16 A Max. switched voltage: 30 VDC or 400 VAC  AZEV132 Max. switched power: 960 W or 8864 VA Max. switched current: 32 A Max. switched voltage: 30 VDC or 400 VAC
<b>Rated Load</b>	AZEV116 16 A at 277 VAC, Res. 50K, @85°C (NO.) 10 mA at 12 VDC, Res. 50K, @85°C (NC.)  AZEV132 32 A at 277 VAC, Res. 50K, @85°C (NO.) 10 mA at 12 VDC, Res. 50K, @85°C (NC.)
<b>Material</b>	Silver tin oxide (N.O.), gold plating(N.C.)
<b>Resistance</b>	< 50 mΩ initially

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 100,000 cycles Min. 30k cycles @32A 277VAC Res(AZEV132) @16A 277VAC Res(AZEV116)
<b>Operate Time(typical)</b>	30 ms Max. at nominal coil voltage
<b>Release Time(typical)</b>	10 ms Max. at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength</b> (Initial)	4.0KVrms(coil and power contacts) 2.5KVrms(between open power contacts) 4.0KVrms(monitor and power contacts)
<b>Pulse Current</b> <b>Capability .(Carrying)</b>	AZSR116 ≥ 1.02kA I <sub>p</sub> 2.5kA <sup>2</sup> s I <sub>t</sub> <sup>2</sup> AZSR132 ≥ 1.50kA I <sub>p</sub> 6.0kA <sup>2</sup> s I <sub>t</sub> <sup>2</sup>
<b>Insulation Resistance</b>	1,000MΩ min. at 20°C 500VDC 50% RH
<b>Holding voltage</b>	Greater than 35% of nominal coil voltage
<b>Dropout</b>	Greater than 5% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b> <b>Storage</b>	At rated coil voltage -40°C(-40F )to 85°C(185°F) -40°C(-40F )to 105°C(221°F)
<b>Vibration</b>	1.5mm DA at 10-55 Hz
<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>Weight</b>	35g

### COIL

<b>Power</b> <b>At pickup Voltage</b> <b>Max. Continuous</b> <b>Dissipation</b> <b>Temperature Rise</b>	875 mw (typical) 2.0 W at 20°C(68°F) ambient 70°C Max. at Rated voltage,85°C
<b>Temperature</b>	Max. 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

**ZETTLER RELAY (XIAMEN) CO., LTD.** [www.zettlercn.com](http://www.zettlercn.com)

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# AZEV116/132

## RELAY ORDERING DATA

COIL SPECIFICATIONS @20° C *					ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Min. holding VDC	Max. Continuous VDC	Coil Resistance $\Omega \pm 10\%$	
12	9	4.2	14.4	93	AZEV116-1AE1BG-12D

- Terminal down-wards direction for operation voltage parameter.

AZEV132 - 1A E 1B G -12D (XXX)  
I II III IV V VI VII

I. Basic Series: AZEV116 (16A), AZEV132(32A)

II. Contact Form 1A: 1 form A

III. Contact Material E: AgSnOInO

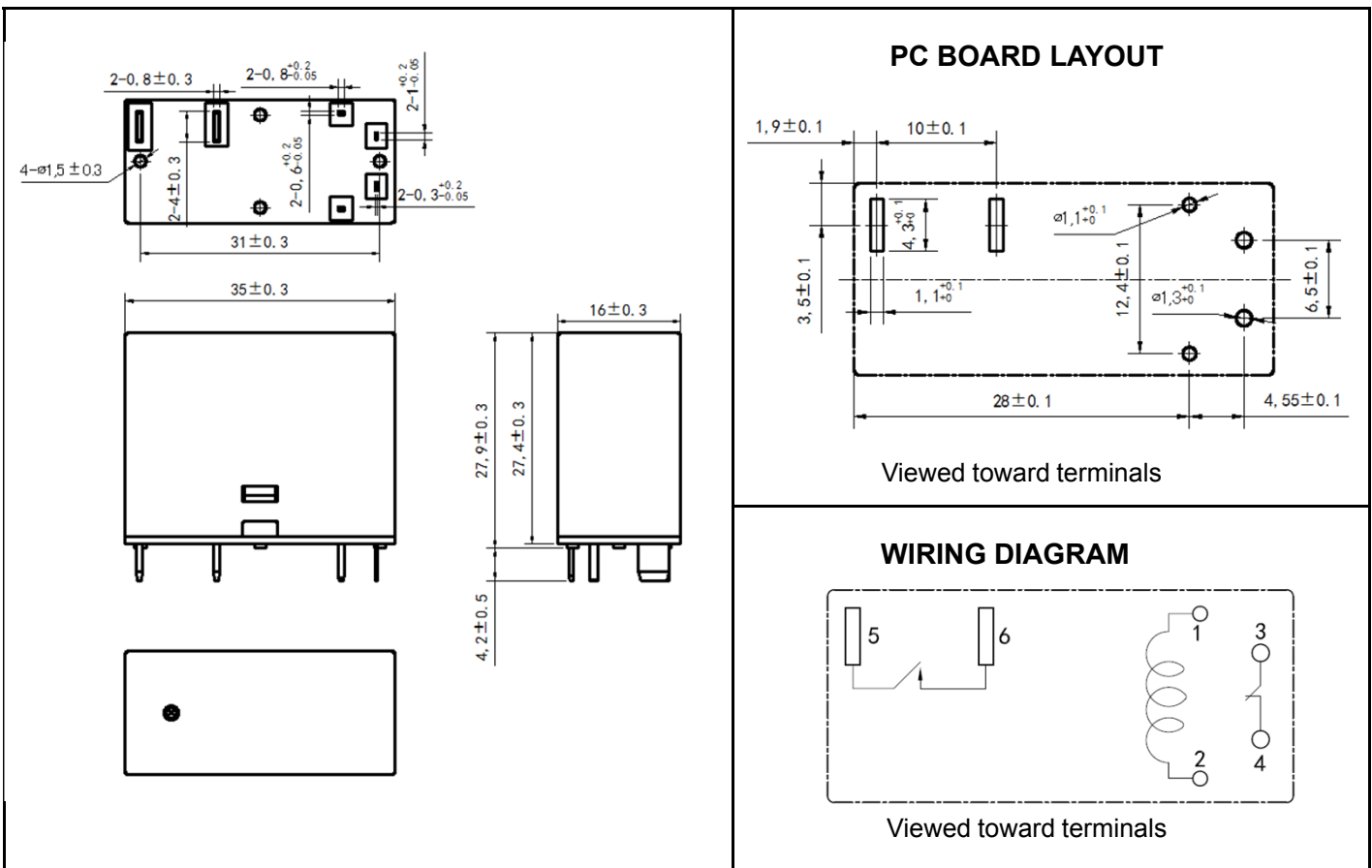
IV. Contact Form 1B: 1 form B

V. Contact Material G: AgNi+ gold plating

VI. Coil Voltage: 6, 9, 12, 24VDC.

VII. Special code: Additional numbers or letters, which does not designate construction features or ratings

## MECHANICAL DATA



Disclaimer: The specification is for reference only. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should evaluate and select the suitable product for their own application. If there is any query, please contact ZETTLER. However, it is the user's responsibility to determine which product should be used only.

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