

# AZSR131

## 35 AMP MINIATURE POWER RELAY

### FEATURES:

- Dielectric strength 4500Vrms, 10kV surge
- 35 Amp switching capability
- Contact gap : 1.8 mm / 2.3 mm available
- UL class F insulation system
- GWT(IEC60335-1) version available
- UL: E365652
- TUV: B0887930005
- CQC: 17002168255



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A)
<b>Ratings</b>	Resistive load: Max. switched power: 9695VA Max. switched current: 35A Max. switched voltage: 277VAC Max. continuous current: 35 A
<b>Rated Load UL</b>	26A at 277 VAC, resistive, 85° C, 50k cycles 35A at 277 VAC, resistive, 85° C, 30k cycles
<b>TUV/CQC</b>	22A at 277 VAC, resistive, 70° C, 100k cycles 26A at 277 VAC, resistive, 85° C, 50k cycles 33A at 277 VAC, cos phi 0.8, 85° C, 50k cycles 35A at 277 VAC, cos phi 0.8, 85° C, 30k cycles
<b>Material</b>	AgSnO <sub>2</sub> (Silver tin oxide)
<b>Resistance</b>	<100 mΩ initially (at 6V, 1A, voltage drop method)

### COIL

<b>Power At pickup Voltage Max. Continuous Dissipation Temperature Rise</b>	790 mW (typical) 2.0 W at 20 °C(68 °F) ambient 70 °C Max. at Rated voltage, 35A, 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

### GENERAL DATA

<b>Life Expectancy Mechanical</b>	Minimum operations 100,000 cycles Min. ( 2.3mm gap ) 300,000 cycles Min. ( 1.8mm gap ) See UL/TUV/CQC ratings
<b>Electrical</b>	
<b>Operate Time</b>	20 ms Max. at nominal coil voltage
<b>Release Time</b>	10 ms Max. at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (Initial.)</b>	4500 Vrms(coil to contacts) 2500 Vrms(between open contacts )
<b>Surge Voltage</b>	10 kV @1.2/50μs (coil to contacts)
<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 Operating Storage</b>	At rated coil voltage -40°C(-40°F ) to 85°C (185°F) -40°C(-40°F) to 105°C (221°F)
<b>Vibration</b>	1.5mm DA at 10-55 Hz
<b>Shock</b>	20g
<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>	25g
<b>Packing unit in pcs</b>	50 per tray / 500per carton box

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

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## RELAY ORDERING DATA

COIL SPECIFICATIONS @20°C					ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Min. holding VDC	Max. Continuous VDC	Coil Resistance $\Omega \pm 10\%$	
5	3.75	1.75	6	18	AZSR131-1AE-5D
9	6.75	3.20	10.8	58	AZSR131-1AE-9D
12	9	4.2	14.4	103	AZSR131-1AE-12D
18	13.5	6.3	21.6	230	AZSR131-1AE-18D
24	18	8.4	28.8	410	AZSR131-1AE-24D
48	36	16.8	57.6	1650	AZSR131-1AE-48D

### NOMENCLATURE

AZSR131 - 1A E - 12D GW (200) (XXX)  
 I II III IV V VI VII

I. Basic Series AZSR131  
 II. Contact Form 1A: 1 form A  
 III. Contact Material E: AgSnO<sub>2</sub>  
 IV. Coil Voltage 5, 9, 12, 18, 24, 48 VDC.  
 V. Glow wire degree Blank: without glow wire GW: with glow wire  
 VI. Contact Gap Blank: 1.8 mm (200): 2.3 mm  
 VII. Special code Additional numbers or letters, which does not designate construction features or ratings

### MECHANICAL DATA

Top view: 30.4 mm width, 25.15 mm height, 15.9 mm width, 4-3.5±0.5 mm height.

Side view: 2-0.8 mm, 2-1.5 mm, 2-0.7x0.7 mm.

Tolerance: ±0.3mm

#### PC BOARD LAYOUT

Dimensions: 27.6 ±0.1 mm, 3.8 ±0.1 mm, 1.75 ±0.1 mm, 12.0 ±0.1 mm, 22.0 ±0.1 mm, 1.45 ±0.1 mm.

Terminal sizes: 2 x ø 1.8 ±0.1 mm, 2 x ø 1.1 ±0.1 mm.

Viewed toward terminals

#### WIRING DIAGRAM

Viewed toward terminals

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.

免责声明：此规格书仅用于参考。我们不能评估所有可能的应用条件下的性能和参数，所以用户需根据自己的应用评估和选择合适的产品。如有疑问，可以咨询赛特勒；但仍然是用户的责任来选择和使用产品。

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