

AZSR131

35 AMP MINIATURE POWER RELAY

FEATURES:

- Dielectric strength 4500Vrms, 10KV surge
- 35 Amp switching capability
- Contact gap : 1.8mm/2.3 mm available
- UL class F insulation system
- GWT(IEC60335-1) version available
- UL : E365652
- TUV : B 088793 005
- CQC : 17002168255



CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 9695VA Max. switched current: 35A Max. switched voltage: 277VAC Max. continuous current: 35 A
Rated Load UL	26A at 277 VAC, resistive, 85° C, 50k cycles 35A at 277 VAC, resistive, 85° C, 30k cycles
TUV/CQC	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
Material	AgSnO2(Silver tin oxide)
Resistance	<100 mΩ initially (at 6V, 1A, voltage drop method)

GENERAL DATA

Life Expectancy Mechanical	Minimum operations 100,000 cycles Min. (2.3mm gap) 300,000 cycles Min. (1.8mm gap) See UL/TUV/CQC ratings
Electrical	
Operate Time(typical)	20 ms Max. at nominal coil voltage
Release Time(typical)	10 ms Max. at nominal coil voltage (with no coil suppression)
Dielectric Strength (Initial.)	4500 Vrms(coil to contacts) 2500 Vrms(between open contacts)
Surge Voltage	10KV @1.2/50μs (coil to contacts)
Insulation Resistance	1,000MΩ min. at 20°C 500VDC 50% RH
Holding voltage	Greater than 35% of nominal coil voltage
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature Operating Storage	At rated coil voltage -40°C(-40F)to 85°C(185°F) -40°C(-40F)to 105°C(221°F)
Vibration	1.5mm DA at 10-55 Hz
Shock	20g
Enclosure	P.B.T, Polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C(518°F)
Max. solder time	5 seconds
Weight	25g
Packing unit in pcs	50per tray/500per carton box

COIL

Power At pickup Voltage Max. Continuous Dissipation Temperature Rise	790 mw (typical) 2.0 W at 20°C(68°F) ambient 70°C Max. at Rated voltage,35A,85°C
Temperature	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

5F,No.6 , Xinjin Road , Xinyang Industrial Zone, Haicang District, Xiamen, China. Tel:(0592)2631523 Fax:
(0592)2631599

AZSR131

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 ₂ |
| 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.

Side view: 15.9 mm height, 4-3.5±0.5 mm terminal height.

Detail view: 2-0.8 mm terminal width, 2-1.5 mm terminal height, 2-0.7x0.7 mm terminal hole.

Tolerance: ±0.3mm

PC BOARD LAYOUT

Dimensions: 27.6 ±0.1 mm total width, 22.0 ±0.1 mm terminal spacing, 3.8 ±0.1 mm terminal offset, 1.75 ±0.1 mm terminal diameter, 1.45 ±0.1 mm terminal hole diameter, 12.0 ±0.1 mm terminal height.

Terminal sizes: 2 x $\phi 1.8 \pm 0.1$ mm, 2 x $\phi 1.1 \pm 0.1$ 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。

ZETTLER RELAY (XIAMEN) CO., LTD. www.zettlercn.com

5F, No.6, Xinyin Road, Xinyang Industrial Zone, Haicang District, Xiamen, China. Tel: (0592)2631523 Fax: (0592)2631599