

35 AMP MINIATURE POWER RELAY

FEATURES

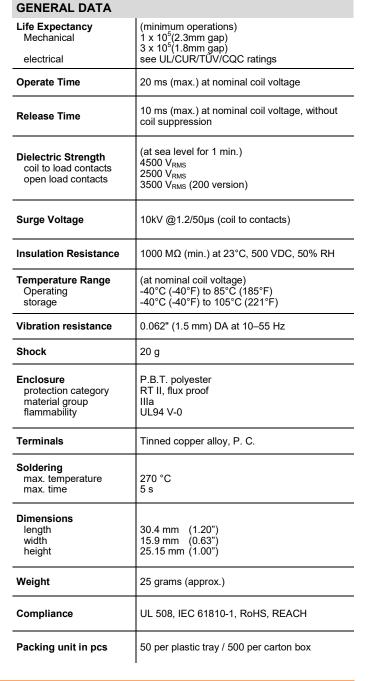
- 35 Amp switching capability
- Contact gap: 1.8 mm / 2.3 mm
- Dielectric strength $4500V_{RMS}$, 10kV Surge
- UL class F insulation
- GWT(IEC60335-1) version available
- UL / CUR E365652
- TÜV B0887930015
- CQC 17002168255

ZETTLER® AZSR131-1AE-12D 35A 277VAC 35A 277VAC (cosø=0.8) COC XXXXXX CHINA



CONTACTS			
Arrangement	SPST-N.O. (1 Form A)		
Ratings (max.) switched power switched current continuous current switched voltage	(resistive load) 9695 VA 35 A 35 A 277 VAC		
Rated Loads UL/CUR/TÜV/CQC	26A at 277 VAC, resistive, 85°C, 50k cycles 35A at 277 VAC, resistive, 85°C, 30k cycles 22A at 277 VAC, resistive, 70°C, 100k cycles 33A at 277 VAC, cosphi 0.8, 85°C, 50k cycles 35A at 277 VAC, cosphi 0.8, 85°C, 30k cycles		
Contact material	AgSnO ₂ (silver tin oxide)		
Contact gap standard version option (200) version	1.8 mm 2.3 mm		
Contact resistance initial typical	(load contact) ≤ 100 mΩ < 3 mΩ		

COIL			
Nominal coil DC voltages	5, 9, 12, 18, 24, 48		
Dropout voltage	> 5% of nominal coil voltage		
Holding voltage	> 35% of nominal coil voltage		
Coil power nominal holding power at pickup voltage	(at 23 °C) 1.4 W 172 mW 790 mW		
Temperature Rise	70 K at nom. coil voltage, 35A, 85°C		
Max. temperature	Class F insulation - 155°C (311°F)		





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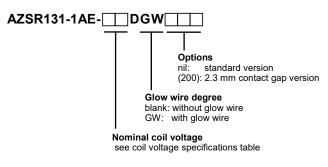
ZSR131

COIL VOLTAGE SPECIFICATIONS

Nominal Coil VDC	Must Operate VDC	Min. Holding VDC	Max. Cont. VDC	Resistance Ohm ± 10%
5	3.75	1.75	6.0	18
9	6.75	3.2	10.8	58
12	9.0	4.2	14.4	103
18	13.5	6.3	21.6	230
24	18.0	8.4	28.8	410
48	36.0	16.8	57.6	1650

Note: All values at 23°C (73°F), upright position, terminals downward.

ORDERING DATA

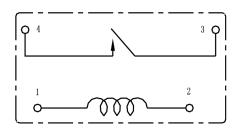


Example ordering data

AZSR131-1AE-12D	12 VDC nominal coil voltage, 1.8 mm contact gap, without glow wire
AZSR131-1AE-12DGW	12 VDC nominal coil voltage, 1.8 mm contact gap, with glow wire
AZSR131-1AE-12D(200)	12 VDC nominal coil voltage, 2.3 mm contact gap, without glow wire

WIRING DIAGRAMS

Viewed towards terminals



NOTES

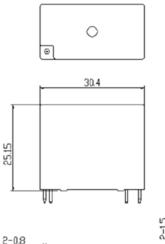
- 1. All values at 23°C (73°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Provide sufficient PCB cross section as heat spreader on terminals.
- 4. Specifications subject to change without notice.



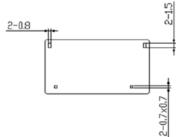
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MECHANICAL DATA

Dimensions in mm. Tolerance: ±0.3mm

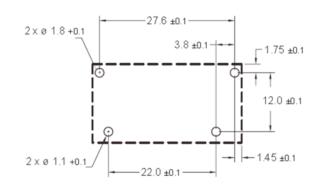






PC BOARD LAYOUT

Viewed towards terminals. Dimensions in mm.





DISCLAIMER

This product specification is to be used in conjunction with the application notes which can be downloaded from the regional ZETTLER relay websites. The specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.

ZETTLER GROUP

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For more information on other ZETTLER Group companies, please visit <u>zettler-group.com</u>. For support on this product or other ZETTLER relays, please visit one of the group sites below.

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