

AZSR131

35 AMP MINIATURE POWER RELAY

FEATURES

- 35 Amp switching capability
- 4.5 kV dielectric strength, 10 kV surge
- Wide contact gap (2.3 mm) version available
- UL Class F insulation system (155°C) standard
- EN 60335 -1 (GWT) approved version available
- TÜV: B 17 04 88793 005
- UL / CUR file: E365652



CONTACTS

Arrangement	SPST -N.O. (1 Form A)
Ratings (max.) switched power switched current switched voltage	(resistive load) 9695 VA 35 A 277 VAC
Rated Loads UL	26 A at 277 VAC, resistive, 85°C, 50k cycles 35 A at 277 VAC, resistive, 85°C, 30k cycles
TÜV	22 A at 277 VAC, resistive, 85°C, 100k cycles 26 A at 277 VAC, resistive, 85°C, 50k cycles 33 A at 277 VAC, cos phi 0.8, 85°C, 50k cycles 35 A at 277 VAC, cos phi 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
Initial resistance	< 100 mΩ (1 A / 6 V - voltage drop method)

COIL

Nominal coil DC voltages	5, 9, 12, 18, 24, 48
Dropout voltage	> 10% of nominal coil voltage
Holding voltage	> 35% of nominal coil voltage
Coil power nominal max. continuous at pickup voltage	1.4 W 2 W 790 mW
Temperature Rise	70 K (126°F) at nom. coil voltage, 35 A/85°C
Max. temperature	155°C (311°F)

GENERAL DATA

Life Expectancy mechanical standard version option (200) version electrical	(minimum operations) 3 x 10 ⁵ (1.8 mm contact gap version) 1 x 10 ⁵ (2.3 mm contact gap version) 3 x 10 ⁴ at 35 A, 277 VAC, resistive 3 x 10 ⁴ at 35 A, 277 VAC, cos phi 0.8
Operate Time Release Time	20 ms (max.) at nominal coil voltage 10 ms (max.) at nominal coil voltage, without coil suppression (at sea level for 1 min.)
Dielectric Strength standard version option (200) version	4500 V _{RMS} coil to contact 2500 V _{RMS} between open contacts 3500 V _{RMS} between open contacts
Surge voltage coil to contact	10 kV (at 1.2 x 50 μs)
Isolation spacing clearance creepage	≥ 6.4 mm ≥ 7.5 mm
Insulation Resistance	1000 MΩ (min.) at 20°C, 500 VDC, 50% RH
Temperature Range operating	(at nominal coil voltage) -40°C (-40°F) to 85°C (185°F)
Vibration resistance Shock resistance	0.062" (1.5 mm) DA at 10-55 Hz 20 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P. C.
Soldering max. Temperature max. Time	270 °C 5 s
Cleaning max. Solvent Temp. max. Immersion Time	80°C (176°F) 30 seconds
Packing unit in pcs	50 per tray / 500 per carton box

NOTES

1. All values at 20°C (68°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.

AMERICAN ZETTLER, INC.

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COIL VOLTAGE SPECIFICATIONS

Nominal Coil VDC	Must Operate VDC	Min. Holding VDC	Max. Cont. VDC	Resistance Ohm $\pm 10\%$
5	3.5	1.75	6	18
9	6.3	3.2	10.8	58
12	8.4	4.2	14.4	103
18	12.6	6.3	21.6	230
24	16.8	8.4	28.8	410
48	33.6	16.8	57.6	1650

ORDER NUMBERING

AZSR131-1AE- D

Options

nil: standard version
(200): 2.3 mm contact gap version

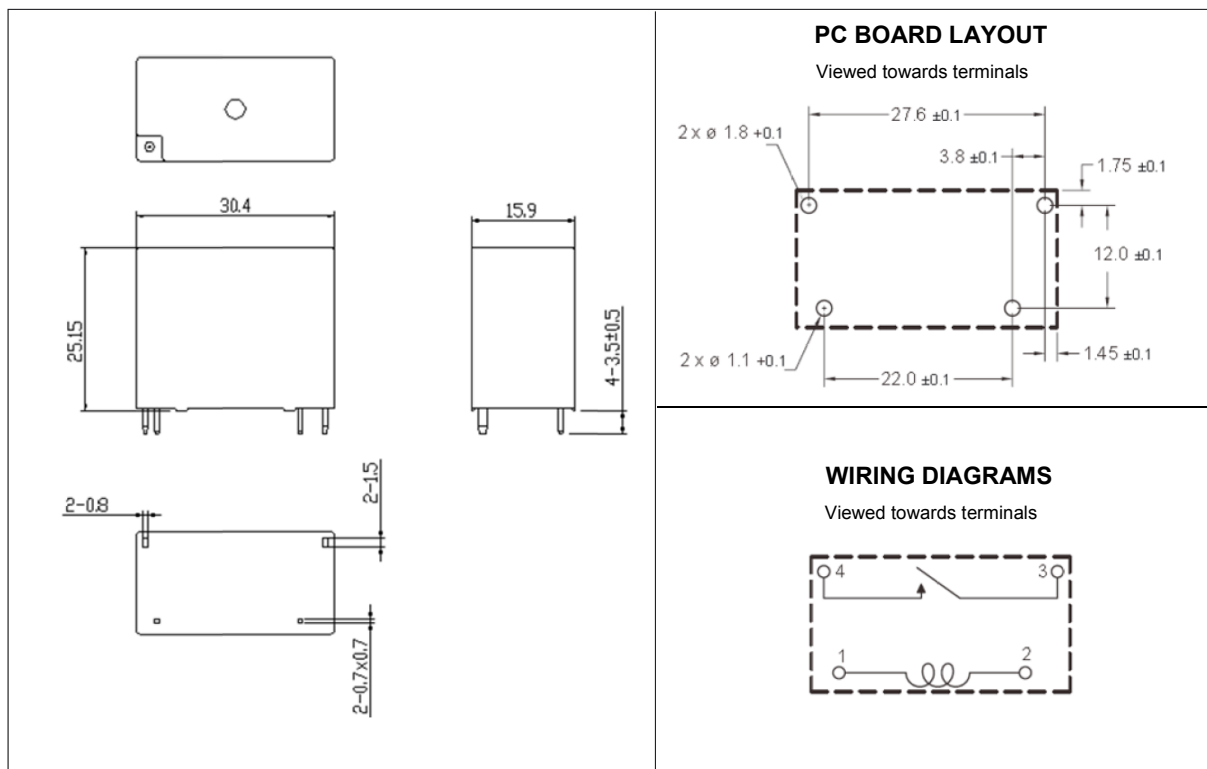
Material option

nil: standard version
GW: EN 60335-1 (GWT) approved

Nominal coil voltage

see coil voltage specifications table

MECHANICAL DATA



Dimensions in mm. Tolerance: ± 0.3 mm unless otherwise stated

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