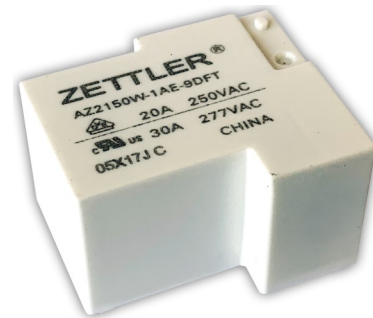


AZ2150W

MINIATURE POWER RELAY

FEATURES

- 30 Amp switching capability
- 1 Form A contacts with 1.75 mm contact gap
- High dielectric strength of 4 kV_{RMS} between contacts and coil
- Class F (155°C) insulation system
- Wash tight epoxy sealed version available
- All plastics Proof Tracking Index (PTI) 250
- UL, CUR file E44211
- VDE certificate 40023154



CONTACTS

Arrangement	SPST-N.O. (1 Form A)
Ratings (max.) switched power switched current switched voltage	(resistive load) 900 W or 8310 VA 30 A 250 VDC* or 440 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Loads UL/CUR VDE	30 A at 277 VAC, general use 20 A at 263 VAC, AC7a ** ** Note: 5VDC, 6VDC and 48VDC coil versions are not VDE certified.
Contact materials Contact gap	AgSnO ₂ - silver tin oxide ≥ 1.75 mm
Initial resistance	< 50 mΩ (24V, 1A, voltage drop method)

COIL

Nominal coil DC voltages	see coil voltage specifications table
Dropout voltage	≥ 10% of nominal coil voltage
Holding voltage	≥ 50% of nominal coil voltage
Coil power nominal max. continuous at pickup voltage	1.1 W (approx.) 1.7 W at 20°C (68°F) ambient 625 mW (typ.)
Temperature Rise Max. temperature	43 K (77°F) at nominal coil voltage 155°C (311°F) - class F insulation system

GENERAL DATA

Life Expectancy mechanical electrical	(minimum operations) 2 x 10 ⁵ 3 x 10 ⁴ at 30 A 250 VAC resistive
Operate Time Release Time	15 ms (max.) at nominal coil voltage 10 ms (max.) at nominal coil voltage, w/o coil suppression
Dielectric Strength	(at sea level for 1 min.) 4000 V _{RMS} coil to contact 3000 V _{RMS} between open contacts
Insulation Resistance	1000 MΩ (min.) at 20°C, 500 VDC, 50% RH
Insulation acc. DIN VDE 0110, IEC 60664-1	C250 Overvoltage category: III Pollution degree: 2 Nominal voltage: 250 VAC
Temperature Range operating	(at nominal coil voltage) -40°C (-40°F) to 85°C (185°F)
Vibration resistance Shock	1.5 mm (0.062") DA at 10–55 Hz 10 g
Enclosure type proof tracking index flammability	PBT polyester RT II, flux proof; RT III, wash tight 250 UL94 V-0
Terminals	Tinned copper alloy, P. C.
Soldering max. Temperature max. Time	270°C (518°F) 5 seconds
Cleaning max. Solvent Temp. max. Immersion Time	80°C (176°F) 30 seconds
Dimensions length width height	31.8 mm (1.25") 26.9 mm (1.06") 19.1 mm (0.751")
Weight	25 grams (approx.)
Compliance Packing unit in pcs	UL 508, IEC 61810-1, RoHS, REACH 40 per plastic tray / 280 per carton box

ZETTLER electronics GmbH

- A ZETTLER GROUP Company

Junkersstr. 3, D-82178 Puchheim, Germany

phone: +49 89 800 97-0
fax: +49 89 800 97-200

office@ZETTLERelectronics.com
www.ZETTLERelectronics.com

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COIL VOLTAGE SPECIFICATIONS

Nominal Coil VDC	Must Operate VDC	Min. Holding VDC	Max. Cont. VDC	Resistance Ohm \pm 10%
5	3.75	2.5	6.0	22.5
6	4.5	3.0	7.2	32.5
9	6.75	4.5	10.8	73
12	9.0	6.0	14.4	130
24	18.0	12.0	38.8	520
48	36.0	24.0	57.6	2080

ORDERING DATA

AZ2150W-1AE-DFT

Sealing option
 nil: non sealed
 E: sealed version

Nominal coil voltage
 see coil voltage specifications table

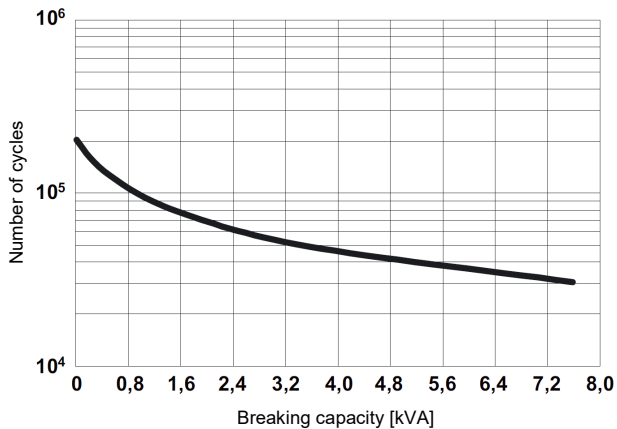
Example ordering data

AZ2150W-1AE-12DFT 12 VDC nominal coil voltage, flux tight - non sealed

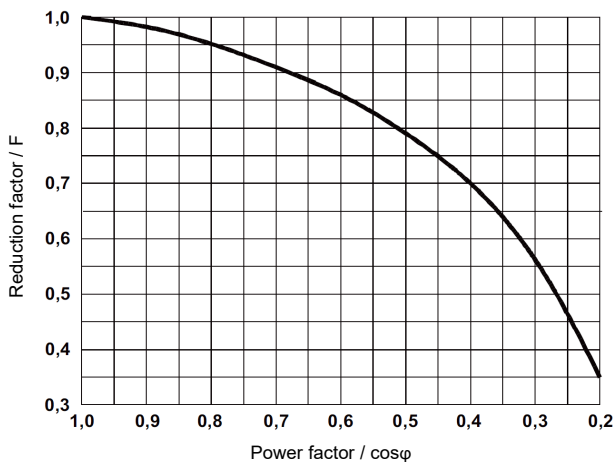
AZ2150W-1AE-24DEFT 24 VDC nominal coil voltage, wash tight - sealed

LIFE EXPECTANCY

Electrical life expectancy at 250 VAC, resistive load

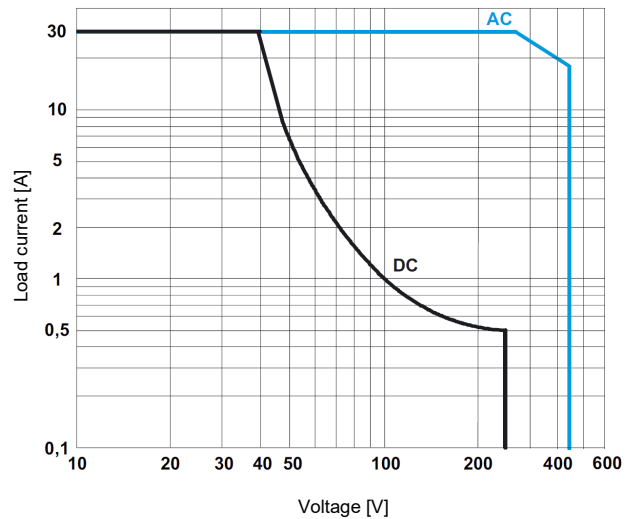


Electrical life reduction factor at inductive AC load



BREAKING CAPACITY

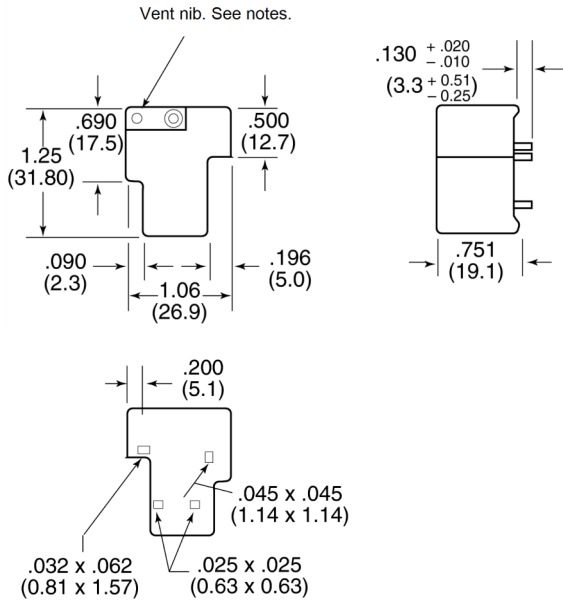
Max. AC/DC resistive load breaking capacity



AZ2150W

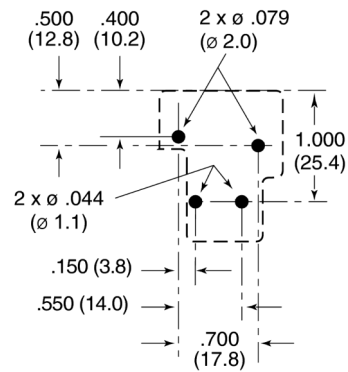
MECHANICAL DATA

Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "



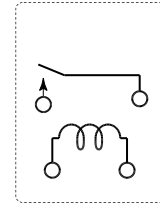
PC BOARD LAYOUT

Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "
Viewed towards terminals



WIRING DIAGRAM

Viewed towards terminals



NOTES

1. Specifications subject to change without notice.
2. All values at 20°C (68°F).
3. Relay may pull in with less than "Must Operate" value.
4. Unsealed relays should not be dip cleaned.
5. Coil suppression circuits such as diodes, etc. in parallel to the coil will lengthen the release time.
6. If higher electrical loads are to be switched by the relay contacts, the vent nib has to be opened prior to use of the relay.

DISCLAIMER

This product specification is to be used in conjunction with the application notes which can be downloaded from www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf

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.

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