

AZ762T

16 AMP HIGH INRUSH MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low height: 15.7 mm
- 16 Amp switching
- Tungsten premake contact for extreme high inrush
- Isolation spacing greater than 10 mm
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1)
EN 60335-1 (VDE 0700, part 1)
- UL, CUR file E44211
- VDE certificate 40006031



CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 4000 VA Max. switched current: 16 A Max. inrush current: 165 A, 20 ms 500 A, 2 ms 800 A, 200 µs Max. switched voltage: 125 VDC* or 440 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	16 A at 277 VAC, general use, 10k cycles, 85°C 2.2 A at 277 VAC, standard ballast, 10k cycles, 50°C 3000 W at 230 VAC, tungsten, 12k cycles, 40°C 1200 W at 277 VAC, tungsten, 6k cycles, 50°C 1200 W at 120 VAC, tungsten, 6k cycles, 50°C TV-8 at 120 VAC, 25k cycles, 40°C
VDE	16 A at 250 VAC resistive, 30k cycles, 85°C
Material	Silver tin oxide + tungsten
Resistance	< 100 milliohms initially

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 5 x 10 ⁶ 1 x 10 ⁴
Operate Time (typical)	7 ms at nominal coil voltage
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 1250 Vrms between open contacts
Insulation Resistance	1000 megaohms min. at 20°C 500 VDC 50% RH
Insulation (according to DIN VDE 0110, IEC 60664-1)	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 85°C (185°F)
Vibration	0.062" (1.5 mm) DA at 10-55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	tinned copper alloy, P.C.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	13.5 grams
Packing unit in pcs.	50 per tray / 500 per carton box

COIL

Power At Pickup Voltage (typical)	200 mW (235 mW at 60 V and 110 V)
Max. Continuous Dissipation	0.9 W at 20°C (68°F) ambient
Temperature Rise	26°C (47°F) at nominal coil voltage
Temperature	Max. 130°C (266°F) Class 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.

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This product specification to be used only together with the application notes
which can be downloaded from <http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf>

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RELAY ORDERING DATA

COIL SPECIFICATION - DC COIL				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm	1 Form A
5	3.5	7.5	62 ±10%	AZ762T-1AE-5D
6	4.2	9	90 ±10%	AZ762T-1AE-6D
9	6.3	13.5	202 ±10%	AZ762T-1AE-9D
12	8.4	18	360 ±10%	AZ762T-1AE-12D
18	12.6	27	810 ±10%	AZ762T-1AE-18D
24	16.8	36	1,440 ±10%	AZ762T-1AE-24D
48	33.6	72	5,760 ±15%	AZ762T-1AE-48D
60	42.0	90	7,500 ±15%	AZ762T-1AE-60D
110	77.0	165	25,200 ±15%	AZ762T-1AE-110D

* "1AE" denote silver tin oxide contacts with tungsten premake contact.

Add suffix "E" at the end of the order number for sealed version.

Add suffix "F" at the end of the order number for Class F insulation system.

MECHANICAL DATA

PC BOARD LAYOUT

Viewed toward terminals

WIRING DIAGRAM

1 Form A

Viewed toward terminals

Dimensions in mm. Tolerance: ± 0.25 mm

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