

AZ770H

SPST HIGH TEMPERATURE SUBMINIATURE POWER RELAY

FEATURES

- Ambient Temperature up to 105°C (221°F)
- 5 kV dielectric strength, 10 kV surge
- 8 mm creepage and clearance
- Proof tracking index (PTI/CTI) 250
- 5 Amp switching capability
- 20 A high inrush current
- Epoxy sealed version available
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1), EN 60335-1 (VDE 0700, part 1)
- UL, CUR file E44211
- VDE certificate 40006815



CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 150 W or 1250 VA Max. switched current: 5 A Max. switched voltage: 30 VDC* or 250 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load	5 A at 250 VAC, resistive, 100k cycles
UL	
VDE	5 A at 250 VAC, 105°C, 100k cycles 3 A at 400 VAC, 105°C, 100k cycles
Material	Silver nickel, gold plating available
Resistance	< 100 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	113 mW
Max. Continuous Dissipation	595 mW at 20°C (68°F) ambient
Temperature Rise (at nominal voltage)	22°C (40°F)
Temperature	Max. 155°C (311°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.

GENERAL DATA

Life Expectancy	Minimum operations
Mechanical	1 x 10 ⁶
Electrical	1 x 10 ⁵ at 5 A 250 VAC Res.
Operate Time (max.)	8 ms at nominal coil voltage
Release Time (max.)	4 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 1000 Vrms between open contacts
Surge Voltage	
Coil to contact	10,000 V (at 1.2x50 µs)
Insulation Resistance	1000 megohms 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 5% of nominal coil voltage
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 105°C (185°F)
Vibration	1.65 mm DA at 10–55 Hz
Shock	10 g operating, 100 g damage
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	4.6 grams
Packing unit in pcs	100 per tray / 1000 per carton box

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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 SPECIFICATIONS - TYPE 1 FOOTPRINT				ORDER NUMBER*
COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	Form A (SPST)
3	2.25	5.1	45	AZ770H-1A-3DS
5	3.75	8.5	125	AZ770H-1A-5DS
6	4.50	10.2	180	AZ770H-1A-6DS
9	6.75	15.3	400	AZ770H-1A-9DS
12	9.00	20.4	720	AZ770H-1A-12DS
18	13.50	30.6	1,600	AZ770H-1A-18DS
24	18.00	40.8	2,800	AZ770H-1A-24DS

* "1A" denote silver nickel contacts.

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

Add suffix "G" at the end of order number for gold plated contacts.

MECHANICAL DATA

	<p>PC BOARD LAYOUT</p> <p>Viewed toward terminals</p>
	<p>WIRING DIAGRAMS</p> <p>Viewed toward terminals</p>

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

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