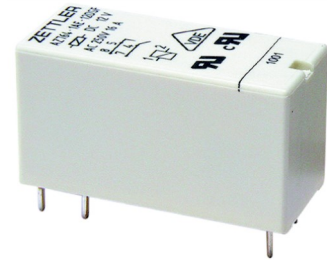


AZ764H

16 AMP HIGH TEMPERATURE POWER RELAY

FEATURES

- 16 Amp switching capability
- Ambient temperature up to 105°C (221°F)
- 5 kV dielectric strength, Isolation spacing ≥ 10 mm
- Reinforced insulation, IEC 60730-1, IEC 60335-1
- Proof tracking index (PTI/CTI) 250
- Compact size, low seated height of 15.7 mm
- UL / CUR file E43203
- VDE certificate 40012572



CONTACTS

Arrangement	SPST-N.O. (1 Form A)
Ratings (max.)	(resistive load)
switched power	480 W or 4000 VA
switched current	16 A
switched voltage	300 VDC* or 400 VAC
	* Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Loads	
UL, CUR	10 A at 250 VAC, general use ^{[1][2]}
VDE	16 A at 250 VAC, 100k cycles, 45°C ^{[1]**} 16 A at 250 VAC, 10k cycles, 105°C ^[2] 10 A at 250 VAC, 150k cycles, 105°C ^{[1][2]}
	** Note: approved with open vent hole only
Contact material	AgNi (silver nickel) ^[1] AgSnO ₂ (silver tin oxide) ^[2]
Initial resistance	≤ 100 m Ω

COIL

Nominal coil DC voltages	see coil voltage specifications table
Dropout voltage	$\geq 10\%$ of nominal coil voltage
Coil power	
nominal	250 mW
at pickup voltage	140 mW
max. cont. dissipation	2.2 W at 20°C (68°F)
Temperature Rise	16 K (29°F) at nominal coil voltage
Max. temperature	Class F insulation - 155°C (311°F)

COIL VOLTAGE SPECIFICATIONS

Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Resistance Ohm $\pm 10\%$
5	3.75	15.0	102
6	4.5	18.0	144
9	6.75	27.0	330
10	7.5	30.0	400
12	9.0	36.0	580
18	13.5	54.0	1300
24	18.0	72.0	2300
48	36.0	144.0	9340

GENERAL DATA

Life Expectancy	(minimum operations)
mechanical	3×10^7
electrical (at 105°C)	1.7×10^5 at 10 A 230VAC resistive 2.8×10^5 at 8 A 230VAC resistive 3.2×10^5 at 6 A 230VAC resistive
Operate Time	8 ms (typ.) at nominal coil voltage
Release Time	3 ms (typ.) at nominal coil voltage, without coil suppression
Dielectric Strength	(at sea level for 1 min.) 5000 V _{RMS} coil to contact 1000 V _{RMS} between open contacts
Insulation Resistance	10^5 M Ω (min.) at 20°C, 500 VDC, 50% RH
Isolation spacing	(coil to contact)
clearance	≥ 10 mm
creepage	≥ 10 mm
Insulation	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC (according to DIN VDE 0110, IEC 60664-1) Reinforced insulation according to IEC 60730-1 (VDE 0631, part 1) IEC 60335-1 (VDE 0700, part 1)
Temperature Range	(at nominal coil voltage)
operating	-40°C (-40°F) to 105°C (221°F)
Vibration resistance	10 g at 10–150 Hz
Shock resistance	30 g
Enclosure	P.B.T. polyester
type	RT II, flux proof
material group	IIIa
flammability	UL94 V-0
Terminals	Tinned copper alloy, P. C.
Soldering	
max. temperature	270 °C (518°F)
max. time	5 seconds
Cleaning	
max. solvent temp.	80°C (176°F)
max. immersion time	30 seconds
Dimensions	
length	29.0 mm (1.142")
width	12.7 mm (0.500")
height	15.7 mm (0.618")
Weight	14 grams (approx.)
Packing unit in pcs	20 per carton tube / 1000 per carton box
Compliance	UL 508, IEC 61810-1, IEC60335-1 (GWT), RoHS, REACH

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AZ764H

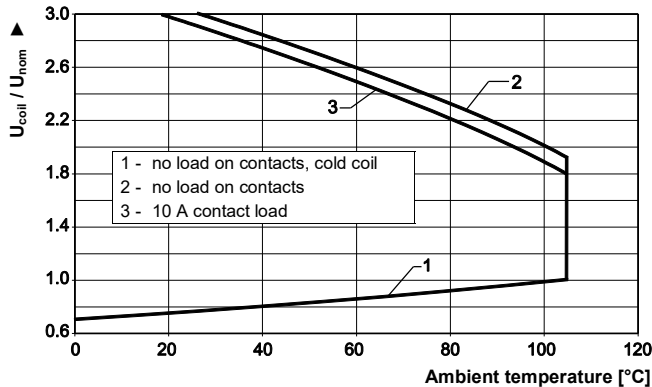
ORDERING DATA

AZ764H-1A - DS

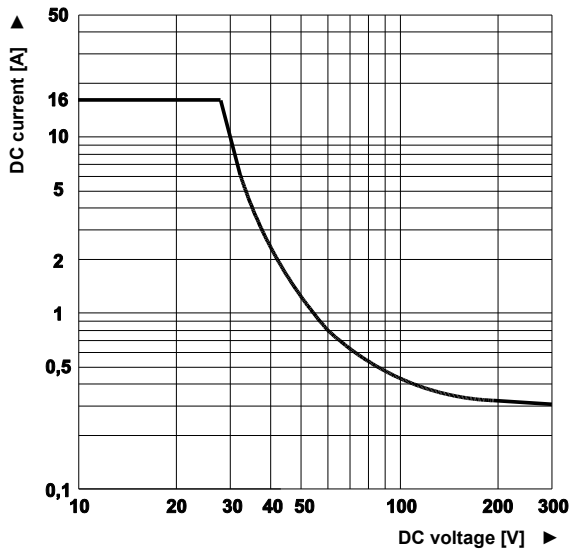
Nominal coil voltage
see coil voltage specifications table

Contact material
nil: silver nickel
E: silver tin oxide

COIL OPERATING RANGE

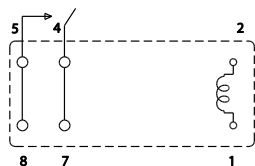


MAX DC RESISTIVE LOAD BREAKING CAPACITY



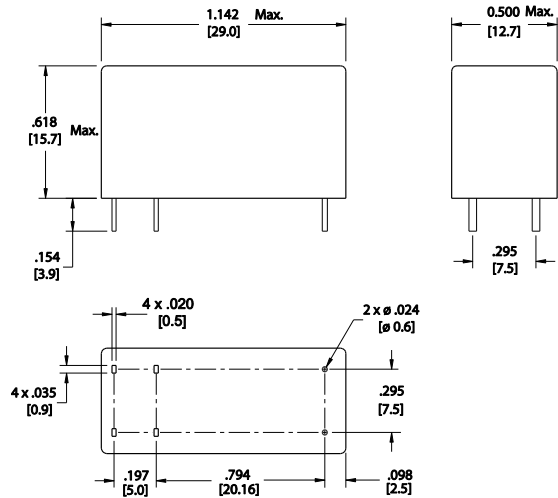
WIRING DIAGRAMS

Viewed towards terminals.



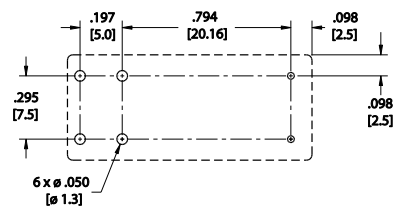
MECHANICAL DATA

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.



NOTES

1. Specifications subject to change without notice.
2. All values at 20°C (68°F) unless otherwise stated.
3. Relay may pull in with less than "Must Operate" value.
4. Coil suppression circuits such as diodes, etc. in parallel to the coil will lengthen the release time.

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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