AZ762H

16 AMP HIGH TEMPERATURE MINIATURE POWER RELAY

FEATURES

- Ambient Temperature up to 105°C (221°F)
- Sensitive coil
- Dielectric strength 5000 Vrms
- Low height: 15.7 mm
- 16 Amp switching
- 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	SPDT (1 Form C) SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 4000 VA (Sensitive version: 2500 VA) Max. switched current: 16 A (Sensitive version: 10 A) 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 resistive, 100k cycles, 105°C (standard coils) [2] 10 A at 277 VAC resistive, 100k cycles, 105°C (sensitive coils) [1] [2]
VDE	16 A at 250 VAC resistive, 50k cycles, 105°C (standard coils) [2] 10 A at 250 VAC resistive, 50k cycles, 105°C (sensitive coils) [2] 10 A at 250 VAC resistive, 30K cycles, 105°C (sensitive coils) [1] 6 A at 400 VAC resistive, 100k cycles, 105°C (sensitive coils) [1]
Material	Silver cadmium oxide [1], silver nickel [2], gold plating available
Resistance	< 50 milliohms initially

COIL

Power **At Pickup Voltage (typical)**	200 mW (235 mW at 60 V) standard coil 140 mW (160 mW at 60 V) sensitive coil
Max. Continuous Dissipation	0.8 W at 20°C (68°F) ambient
Temperature Rise	26°C (47°F) at nominal coil voltage (standard coil) 17°C (31°F) at nominal coil voltage (sensitive coil)
Temperature	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class F

GENERAL DATA

Life Expectancy **Mechanical** **Electrical** **(ohmic load at 105°C / 221°F)**	Minimum operations 1 x 10^7 1 x 10^5 at 16 A 250 VAC Res.
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 1000 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 105°C (221°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

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.

ZETTLER electronics GmbH

Junkersstr. 3, D-82178 Puchheim, Germany

phone: +49 89 800 97-0 office@ZETTLERelectronics.com
fax: +49 89 800 97-200 www.ZETTLERelectronics.com

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COIL SPECIFICATION - DC COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ±10%	1 Form A	1 Form C
5	3.5	6.5	62	AZ762H-1AB-5DF	AZ762H-1CB-5DF
6	4.2	7.8	90	AZ762H-1AB-6DF	AZ762H-1CB-6DF
9	6.3	11.7	200	AZ762H-1AB-9DF	AZ762H-1CB-9DF
12	8.4	15.6	360	AZ762H-1AB-12DF	AZ762H-1CB-12DF
18	12.6	23.4	810	AZ762H-1AB-18DF	AZ762H-1CB-18DF
24	16.8	31.2	1,440	AZ762H-1AB-24DF	AZ762H-1CB-24DF
48	33.6	62.4	5,760	AZ762H-1AB-48DF	AZ762H-1CB-48DF
60	42.0	78.0	7,500	AZ762H-1AB-60DF	AZ762H-1CB-60DF

* “1AB” or “1CB” denote silver nickel contacts.
“F” at the end of the order number denote Class F insulation system.
Add suffix “E” after “D” and before “F” at the end of the order number for sealed version.
Add suffix “A” before “F” at the end of the order number for gold plated contacts.

COIL SPECIFICATION - DC COIL SENSITIVE VERSION				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ±10%	1 Form A
5	3.75	6.5	100	AZ762H-1AB-5DS
6	4.5	7.8	145	AZ762H-1AB-6DS
9	6.75	11.7	325	AZ762H-1AB-9DS
12	9.0	15.6	580	AZ762H-1AB-12DS
18	13.5	23.4	1,300	AZ762H-1AB-18DS
24	18.0	31.2	2,300	AZ762H-1AB-24DS
48	36.0	62.4	9,220	AZ762H-1AB-48DS
60	45.0	78.0	12,860	AZ762H-1AB-60DS

* “1AB” denote silver nickel contacts.
Substitute “1A” in place of “1AB” for silver cadmium oxide contacts.
Add suffix “E” at the end of the order number for sealed version.
Add suffix “A” at the end of the order number for gold plated contacts.
Add suffix “F” at the end of the order number for Class F insulation system (only available with silver nickel contacts “1AB”).

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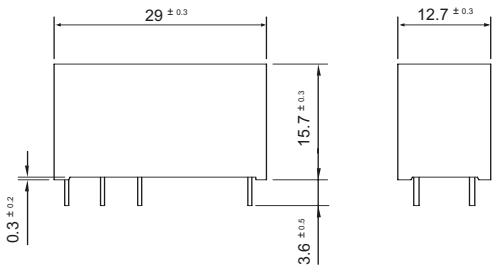
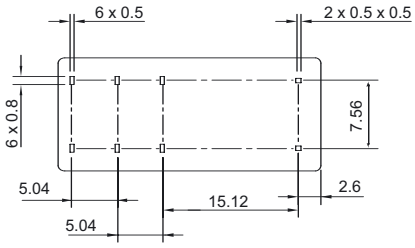
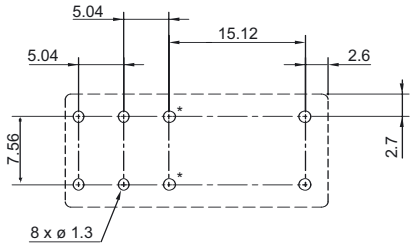
MECHANICAL DATA





Dimensions in mm. Tolerance: ± 0.25 mm

PC BOARD LAYOUT

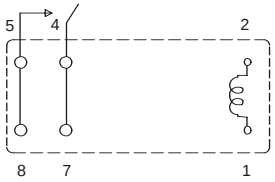


* Not used on 1 Form A relay

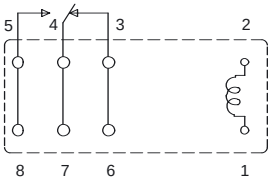
Viewed toward terminals

WIRING DIAGRAMS

1 Form A



1 Form C



Viewed toward terminals

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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