

# AZ762H

## 16 A SPDT MINIATURE HIGH TEMPERATURE POWER RELAY

### FEATURES

- High ambient operating temperature (105°C)
- Dielectric strength 5000 Vrms
- Low cost
- Epoxy sealed versions available
- 16 Amp switching (standard coil only)
- Class F system standard
- Isolation spacing greater than 10 mm
- UL, CUR file E44211, VDE40006031



### 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: 10A) Max. switched voltage: 125* VDC or 440 VAC  *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	(Standard Coil) 18.4 A at 250 VAC resistive, 20k cycles (NO only) 105°C 16 A at 277 VAC general use, 100k cycles 105°C 5 A at 30 VDC resistive 100k cycles 105°C (Sensitive Coil) 10 A at 277 VAC general use, 100k cycles 105°C
VDE	16 A at 250 VAC resistive, 105°C Standard coils Class F Only 10 A at 250 VAC resistive, 105°C Sensitive coils Class F Only
Material	Silver nickel. Gold plating available
Resistance	< 50 milliohms initially (using 6 V 1 A method)

### COIL

Power	
At Pickup Voltage (typical)	196 mW Standard 140 mW Sensitive
Max. Continuous Dissipation	1.7 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)
Max. Temperature	155°C (311°F) Class F

### GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 16 A 277 VAC general use
OperateTime (typical)	7 ms at nominal coil voltage
ReleaseTime (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 megohms min. at 20°C 500 VDC 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 105°C (221°F) -40°C (-40°F) to 155°C (266°F)
Vibration	0.062" 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	14 grams

### 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.



**AMERICAN ZETTLER, INC.**

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## RELAY ORDERING DATA

COIL SPECIFICATIONS - STANDARD RELAYS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Unsealed	Sealed
5	3.5	6.5	62	AZ762H-1CB-5DF	AZ762H-1CB-5DEF
6	4.2	7.8	90	AZ762H-1CB-6DF	AZ762H-1CB-6DEF
9	6.3	11.7	202	AZ762H-1CB-5DF	AZ762H-1CB-19DEF
12	8.4	15.6	360	AZ762H-1CB-12DF	AZ762H-1CB-12DEF
18	12.6	23.4	810	AZ762H-1CB-18DF	AZ762H-1CB-18DEF
24	16.8	31.2	1440	AZ762H-1CB-24DF	AZ762H-1CB-24DEF
48	33.6	62.4	5760	AZ762H-1CB-48DF	AZ762H-1CB-48DEF
60	42.0	78.0	7500	AZ762H-1CB-60DF	AZ762H-1CB-60DEF

COIL SPECIFICATIONS - SENSITIVE RELAYS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Unsealed	Sealed
5	3.75	6.5	100	AZ762H-1CB-5DSF	AZ762H-1CB-5DSEF
6	4.50	7.8	144	AZ762H-1CB-6DSF	AZ762H-1CB-6DSEF
9	6.75	11.7	324	AZ762H-1CB-9DSF	AZ762H-1CB-9DSEF
12	9.00	15.6	576	AZ762H-1CB-12DSF	AZ762H-1CB-12DSEF
18	13.50	23.4	1296	AZ762H-1CB-18DSF	AZ762H-1CB-18DSEF
24	18.00	31.2	2304	AZ762H-1CB-24DSF	AZ762H-1CB-24DSEF
48	36.00	62.4	9216	AZ762H-1CB-48DSF	AZ762H-1CB-48DSEF
60	45.00	78.0	12857	AZ762H-1CB-60DSF	AZ762H-1CB-60DSEF

\* For 1 form A contacts substitute "-1AB" for "-1CB." For gold plated contacts add suffix "A."



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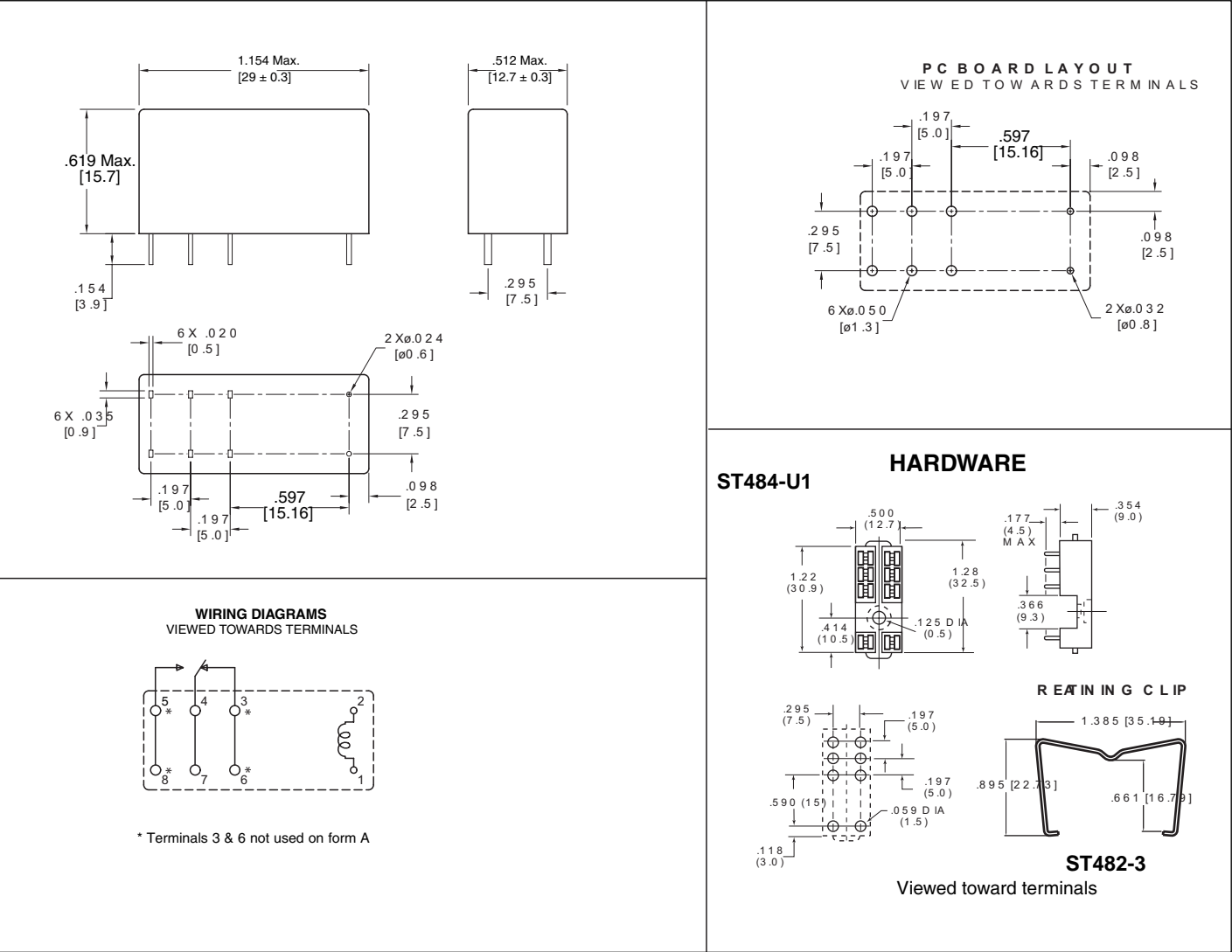
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## HARDWARE ORDERING DATA

DESCRIPTION	ORDER NUMBER	DESCRIPTION	ORDER NUMBER
Socket	ST484-U1	Retainer	ST482-3

## MECHANICAL DATA



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



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