

# AZ576P

## 20A MINIATURE LATCHING RELAY

### FEATURES

- Class F insulation
- 5kV dielectric strength and 10kV surge
- Epoxy sealed versions available
- UL E44211
- TÜV R50578193



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A), (1 Form B) SPDT (1 Form C)
<b>Ratings</b>	Resistive load: Max. switched power: 510W or 5540VA Max. switched current: 20A Max. switched voltage: 30VDC or 480VAC *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load UL, CUR N.O.</b>	20A at 250/277VAC Res, Gen Use, 30k cycles, 85°C 17A at 250/277VAC Res, Gen Use, 50k cycles, 85°C 12A at 250/277VAC Res, Gen Use, 100k cycles, 85°C 3.7A at 347/480VAC STD Ballast, 10k cycles, 105°C TV-8 120VAC, 25k cycles, 85°C
<b>1 Form A Only</b>	8A at 120/277VAC ELEC Ballast, 30k cycles, 85°C 3A at 347VAC ELEC Ballast, 8k cycles, 40°C 1HP at 120/240/480VAC, 25k cycles, 85°C TV-8 240VAC, 25k cycles, 40°C 12.5A at 120VAC Tungsten, 10k cycles, 85°C 12.5A at 240VAC Tungsten, 10k cycles, 40°C
<b>N.C.</b>	5A at 250/277VAC Res, Gen Use, 50k cycles, 85°C
<b>TÜV</b>	Contact factory for ratings
<b>Material</b>	Silver Tin-Oxide
<b>Resistance</b>	Initial 100 milliohms max. at 6VDC, 1A

### COIL

<b>Power At Pickup Voltage (typical)</b>	Single coil 225mW Dual Coil 337mW
<b>Max. Continuous Dissipation</b>	1.7W at 20°C (68°F) ambient
<b>Temperature Rise</b>	26°C (47°F) at nominal coil voltage
<b>Max. Temperature</b>	155°C (311°F)

### GENERAL DATA

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> ops Min. (no load) 1 x 10 <sup>5</sup> ops Min. 12A at 277VAC
<b>Operate Time (Max)</b>	10ms at nominal coil voltage (<8ms typ)
<b>Release Time (Max)</b>	10ms at nominal coil voltage (<4ms typ)(with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	5000Vrms coil to contact 1000Vrms between open contacts
<b>Surge Voltage coil-contacts</b>	10kV (1.2/50µs)
<b>Insulation Resistance</b>	1000 megohms min. at 20°C 500 VDC 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage (DC)
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 105°C (221°F) -40°C (-40°F) to 130°C (266°F)
<b>Vibration</b>	1.5mm DA at 10–55 Hz
<b>Shock</b>	100g
<b>Enclosure</b>	94V-0
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	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

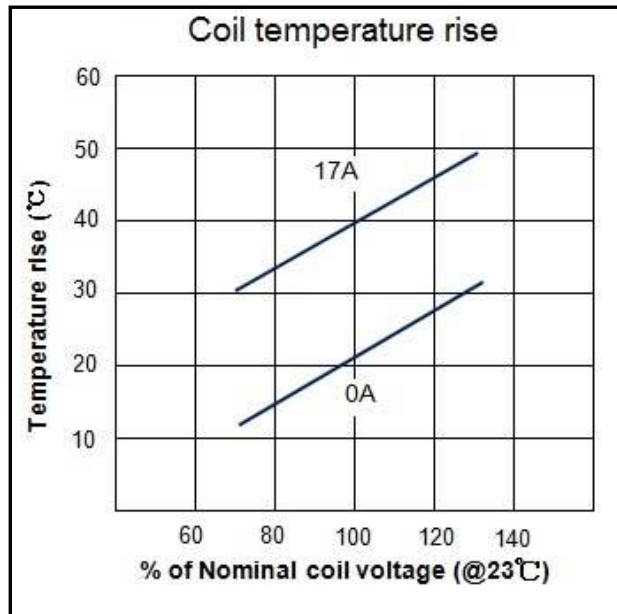
COIL SPECIFICATIONS – 1 Coil Latching				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance Ohms $\pm 10\%$	Unsealed	Sealed
5	3.75	6.5	62.5	AZ576P-1C-5D	AZ576P-1C-5DE
6	4.5	7.8	90	AZ576P-1C-6D	AZ576P-1C-6DE
9	6.75	11.7	203	AZ576P-1C-9D	AZ576P-1C-9DE
12	9	15.6	360	AZ576P-1C-12D	AZ576P-1C-12DE
18	13.5	23.4	810	AZ576P-1C-15D	AZ576P-1C-15DE
24	18	31.2	1440	AZ576P-1C-24D	AZ576P-1C-24DE
36	27	46.8	3240	AZ576P-1C-36D	AZ576P-1C-36DE
48	36	62.4	5760	AZ576P-1C-48D	AZ576P-1C-48DE

## RELAY ORDERING DATA

COIL SPECIFICATIONS – 2 Coil Latching				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance Ohms $\pm 10\%$	Unsealed	Sealed
5	3.75	6.5	41.7	AZ576P2-1C-5D	AZ576P2-1C-5DE
6	4.5	7.8	60	AZ576P2-1C-6D	AZ576P2-1C-6DE
9	6.75	11.7	135	AZ576P2-1C-9D	AZ576P2-1C-9DE
12	9	15.6	240	AZ576P2-1C-12D	AZ576P2-1C-12DE
18	11.25	23.4	540	AZ576P2-1C-15D	AZ576P2-1C-15DE
24	18	31.2	960	AZ576P2-1C-24D	AZ576P2-1C-24DE
36	27	46.8	2,160	AZ576P2-1C-36D	AZ576P2-1C-36DE
48	36	62.4	3,840	AZ576P2-1C-48D	AZ576P2-1C-48DE

Substitute "1A" or "1B" in place of "1C" to indicate Form A or Form B configuration. When suffix "E" is specified for Epoxy Seal, refer to AZ "Relay Technical Notes" on AZ website - Product Resources. Consult factory for other PCB process conditions that may apply.

### Temperature DATA

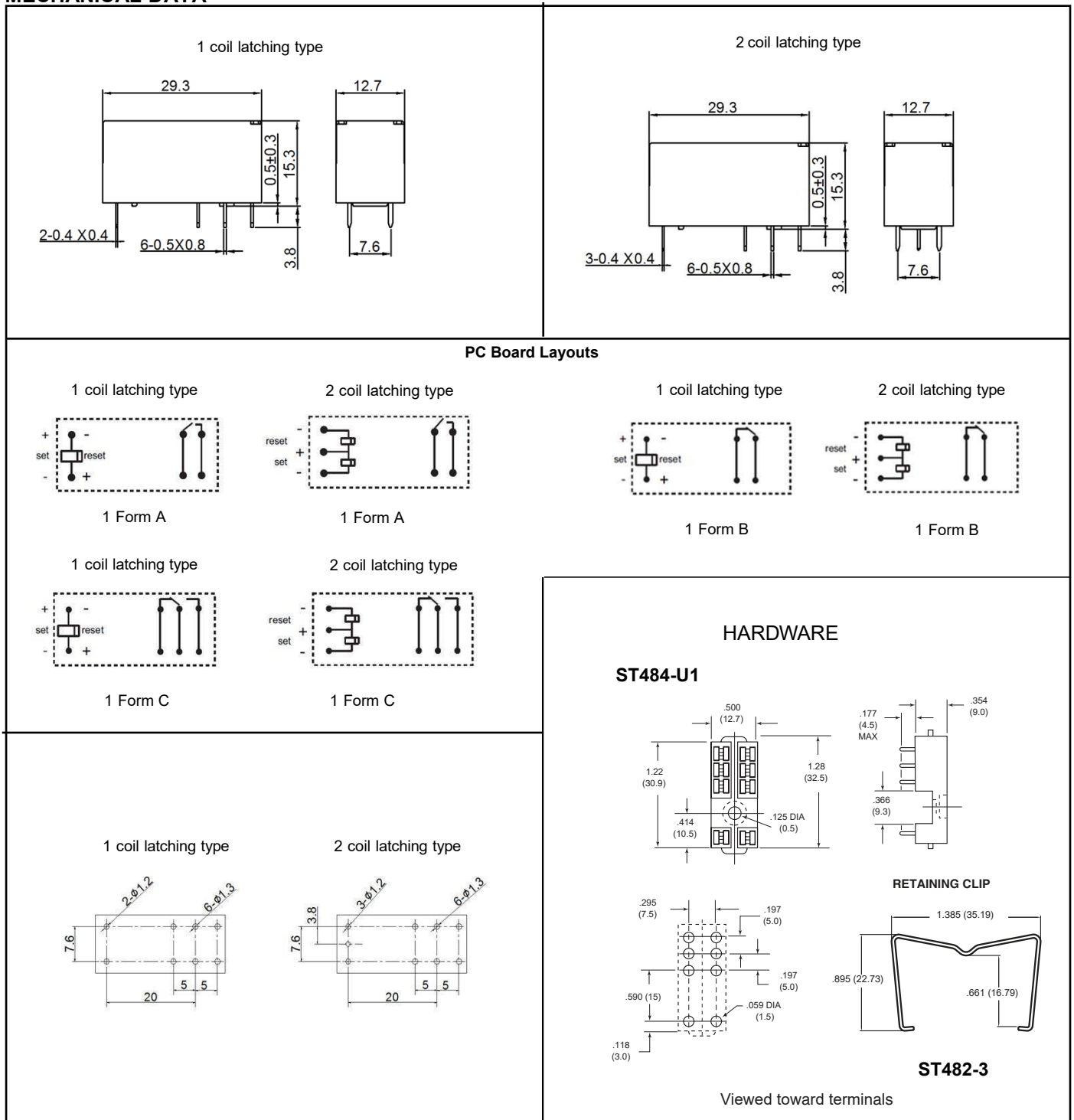


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## MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010

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PHONE: (949) 831-5000

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E-MAIL: SALES@AZETTLER.COM

This 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.