

# AZ576

## 20A MINIATURE POWER RELAY

### FEATURES

- Class F standard
- Dielectric strength 5000Vrms
- Low cost
- Epoxy sealed versions available
- 20 Amp switching
- UL E44211
- TUV 50400691



### CONTACTS

<b>Arrangement</b>	SPST (1 Form A) 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</b>	<b>N.O.</b> 20A at 277VAC Resistive, 30k cycles, 85°C 20A at 120VAC Resistive, 100k cycles, 65°C 17A at 277VAC/30VDC Resistive, 100k cycles, 105°C 16A at 120/277VAC General Use, 100k cycles, 85°C 16A at 277VAC Resistive, 100k cycles, 105°C 8A at 120VAC Tungsten, 30k cycles, 85°C 5A at 120/277VAC Pilot Duty, 30k cycles, 85°C 5A at 120VAC Ballast, 25k cycles, 85°C 1HP at 120/240/480VAC, 100k cycles, 40°C 1.5HP at 120VAC, 100k cycles, 85°C TV-8 120VAC, 25k cycles, 40°C TV-5 120VAC, 25k cycles, 85°C 60LRA/10FLA at 250VAC, 100k cycles, 40°C <b>N.C.</b> 20A at 277VAC Resistive, 30k cycles, 85°C 5A at 120/277VAC Pilot Duty, 30k cycles, 85°C 1HP at 120/240/480VAC, 100k cycles, 40°C 60LRA/10FLA 50VAC, 100k cycles, 40°C 17A at 277VAC/30VDC Resistive, 30k cycles, 105°C 16A at 277VAC General Use, 30k cycles, 85°C <b>TÜV</b> 17A at 277VAC / 30VDC Resistive, 100k cycles, 105°C * Note: Versions with 15 VDC nominal coil voltage are not TÜV approved.
<b>Material</b>	Silver Tin-Oxide
<b>Resistance</b>	Initial 100 milliohms max. at 6VDC, 1A

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> ops Min. (no load) 1 x 10 <sup>5</sup> ops Min. (rated load)
<b>Operate Time (Max)</b>	15ms at nominal coil voltage (<8ms typ)
<b>Release Time (Max)</b>	8ms 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</b> <b>Operating</b> <b>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>	10 g
<b>Enclosure</b>	P.B.T. polyester
<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>	12 grams

# AMERICAN ZETTLER, INC.

3/26/18

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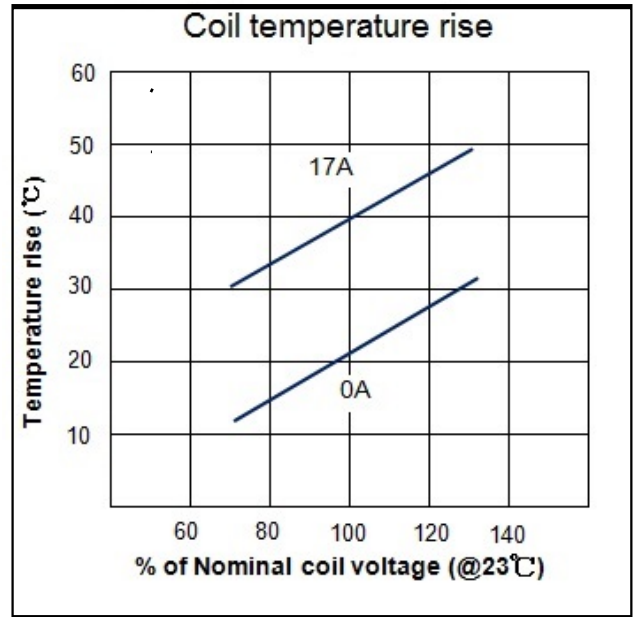
## COIL

<b>Power At Pickup Voltage (typical)</b>	225mW, (DC, standard)
<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
	17°C (31°F) at nominal coil voltage, sensitive coil
<b>Max. Temperature</b>	130°C (266°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.

## Temperature DATA



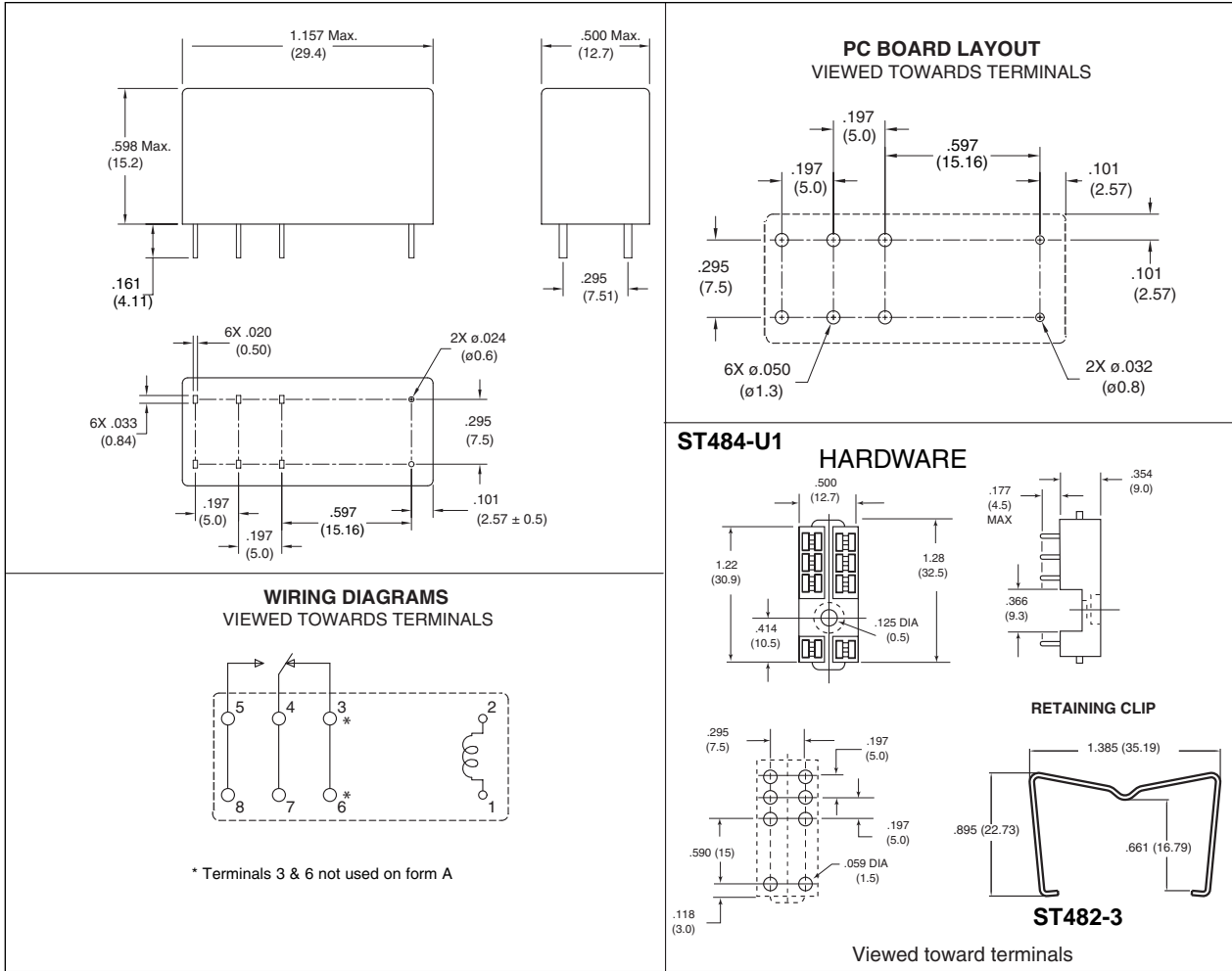
## RELAY ORDERING DATA

COIL SPECIFICATIONS – DC COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohms ± 10%	Unsealed	Sealed
3	2.25	4.5	22.5	AZ576-1C-3D	AZ576-1C-3DE
5	3.75	7.5	62.5	AZ576-1C-5D	AZ576-1C-5DE
6	4.5	9	90	AZ576-1C-6D	AZ576-1C-6DE
9	6.75	13.5	202.5	AZ576-1C-9D	AZ576-1C-9DE
12	9	18	360	AZ576-1C-12D	AZ576-1C-12DE
15	11.25	22.5	560	AZ576-1C-15D	AZ576-1C-15DE
22	16.5	33	1,210	AZ576-1C-22D	AZ576-1C-22DE
24	18	36	1,440	AZ576-1C-24D	AZ576-1C-24DE
36	27	54	3,240	AZ576-1C-36D	AZ576-1C-36DE
48	36	72	5,760	AZ576-1C-48D	AZ576-1C-48DE
60	45	90	9,000	AZ576-1C-60D	AZ576-1C-60DE
110	77	165	30,250	AZ576-1C-110D	AZ576-1C-110DE

Substitute "1A" in place of "1C" to indicate Form A 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.

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## MECHANICAL DATA



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