

# AZ755

## 20 AMP MINIATURE POWER RELAY

### FEATURES

- Dielectric strength 5000 Vrms
- Low cost
- Epoxy sealed version available
- 20 Amp switching — single pole contacts
- Isolation spacing greater than 8mm
- UL Class B insulation system standard, Class F available
- UL, CUR file E44211
- TÜV file R50129286



### CONTACTS

Arrangement	SPST (1 Form A, 1 Form B) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 480 W or 5540 VA Max. switched current: 20 A Max. switched voltage: 150* VDC or 380 VAC <small>*Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.</small>
Rated Load UL, CUR	20 A at 277 VAC N.O. resistive, 50k cycles 16 A at 240 VAC general use, 100k cycles 12 A at 277 VAC N.O. resistive., 100k cycles 20 A at 24 VDC resistive 1 HP 240 VAC TV-8 120 VAC N.O. (silver tin oxide only)
TÜV	16 A at 30 VDC, 250 VAC resistive, 30k cycles* 13 A at 420 VAC resistive, 30k cycles * <small>*approval for form A, C, and Class F only</small>
Material	Silver cadmium oxide (silver tin oxide available)
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

### COIL

Power At Pickup Voltage (typical)	270 mW
Max. Continuous Dissipation	1.9 W at 20°C (68°F) ambient
Temperature Rise	34°C (61°F) at nominal coil voltage
Temperature	Max. 130°C (266°F)

### GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 5 x 10 <sup>6</sup> 5 x 10 <sup>4</sup> at 16 A 240 VAC Res. 2 x 10 <sup>4</sup> at 20 A 277 VAC Res.
Operate Time (typical)	8 ms at nominal coil voltage
Release Time (typical)	5 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 90°C (194°F) -40°C (-40°F) to 130°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	18.5 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.**

[www.azettler.com](http://www.azettler.com)

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## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance	Form A (SPST)	Form C (SPDT)
5	3.6	9.4	47 $\pm$ 10%	AZ755-1A-5D	AZ755-1C-5D
6	4.3	11.4	69 $\pm$ 10%	AZ755-1A-6D	AZ755-1C-6D
9	6.5	17.4	155 $\pm$ 10%	AZ755-1A-9D	AZ755-1C-9D
12	8.6	22.8	275 $\pm$ 10%	AZ755-1A-12D	AZ755-1C-12D
18	13.0	27.9	620 $\pm$ 10%	AZ755-1A-18D	AZ755-1C-18D
24	17.3	45.7	1100 $\pm$ 15%	AZ755-1A-24D	AZ755-1C-24D
48	34.6	89.0	4400 $\pm$ 15%	AZ755-1A-48D	AZ755-1C-48D
60	43.2	115.3	6880 $\pm$ 15%	AZ755-1A-60D	AZ755-1C-60D
110**	79.3	170.5	22900 $\pm$ 15%	AZ755-1A-110D	AZ755-1C-110D

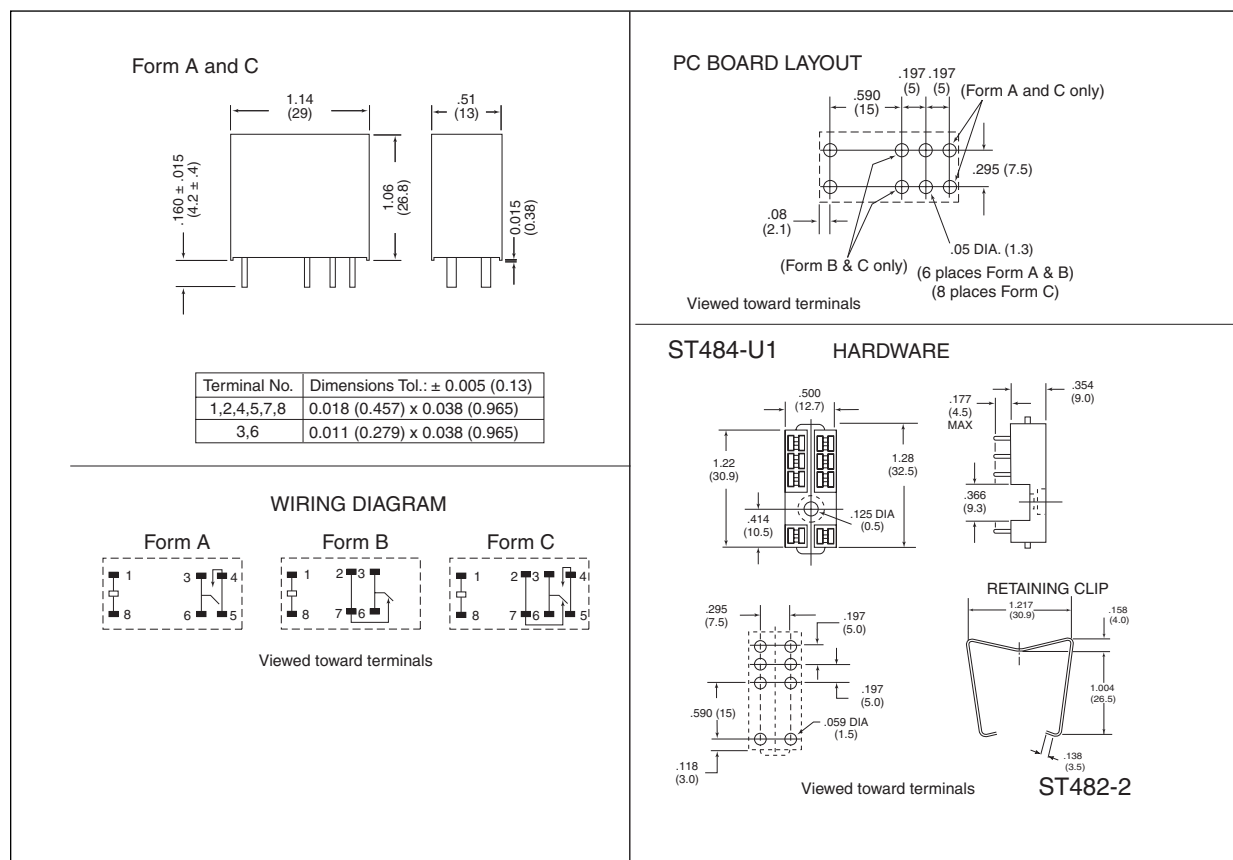
\*Add suffix "E" for epoxy sealed version, suffix "A" for AgSnO (silver tin oxide) contacts. Substitute "1B" in place of "1A" or "1C" to indicate 1 Form B contact arrangement. Add suffix "F" for Class F.

\*\*110V coil not TÜV approved.

## HARDWARE ORDERING DATA

DESCRIPTION	ORDER NUMBER	DESCRIPTION	ORDER NUMBER
Socket	ST484-U1	Retainer	ST482-2

## MECHANICAL DATA



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



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