

# AZ683

## MINIATURE POWER RELAY

### FEATURES

- AC coils
- Dielectric strength 5000 Vrms
- Low cost
- Flux tight package
- 10 Amp switching - single pole contacts
- Isolation spacing greater than 8mm
- Molded materials: all
- UL, CUR file E43203
- TÜV file R50008783



### CONTACTS

Arrangement	SPDT (1 Form C)
Ratings	<b>Resistive load:</b> Max. switched power: 300 W, 2500 VA Max. switched current: 10 A Max. switched voltage: 150 VDC/400 VAC  <b>Inductive load:</b> ( $\cos\phi = 0.4$ ) Max. switched power: 150W or 1875VA Max. Switched current: 10A Max. switched voltage: 125VDC or 400 VAC  Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	10 A 250 VAC resistive 1/2 HP 277 VAC 10 A at 30 VDC resistive
Material	Silver cadmium oxide
Resistance	30 milliohms initially (6V, 1A method)

### COIL

Power At Pickup Voltage (typical)	576 mW
Max. Continuous Dissipation	1.5 W at 20°C (68°F) ambient 1.2 W at 40°C (104°F) ambient
Temperature Rise	36°C (65°F) at nominal coil voltage
Temperature	Max. 105°C (221°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.

### GENERAL DATA

<b>Life Expectancy</b> Mechanical Electrical	Minimum operations $1 \times 10^7$ $1 \times 10^5$ at 10 A 240 VAC Res.
<b>Operate Time (typical)</b>	8 ms at nominal coil voltage
<b>Release Time (typical)</b>	5 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	5000 Vrms coil to contact 1000 Vrms between open contacts
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC 50% RH
<b>Dropout</b>	Greater than 30% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" DA at 10–55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	PC (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>Weight</b>	17 grams

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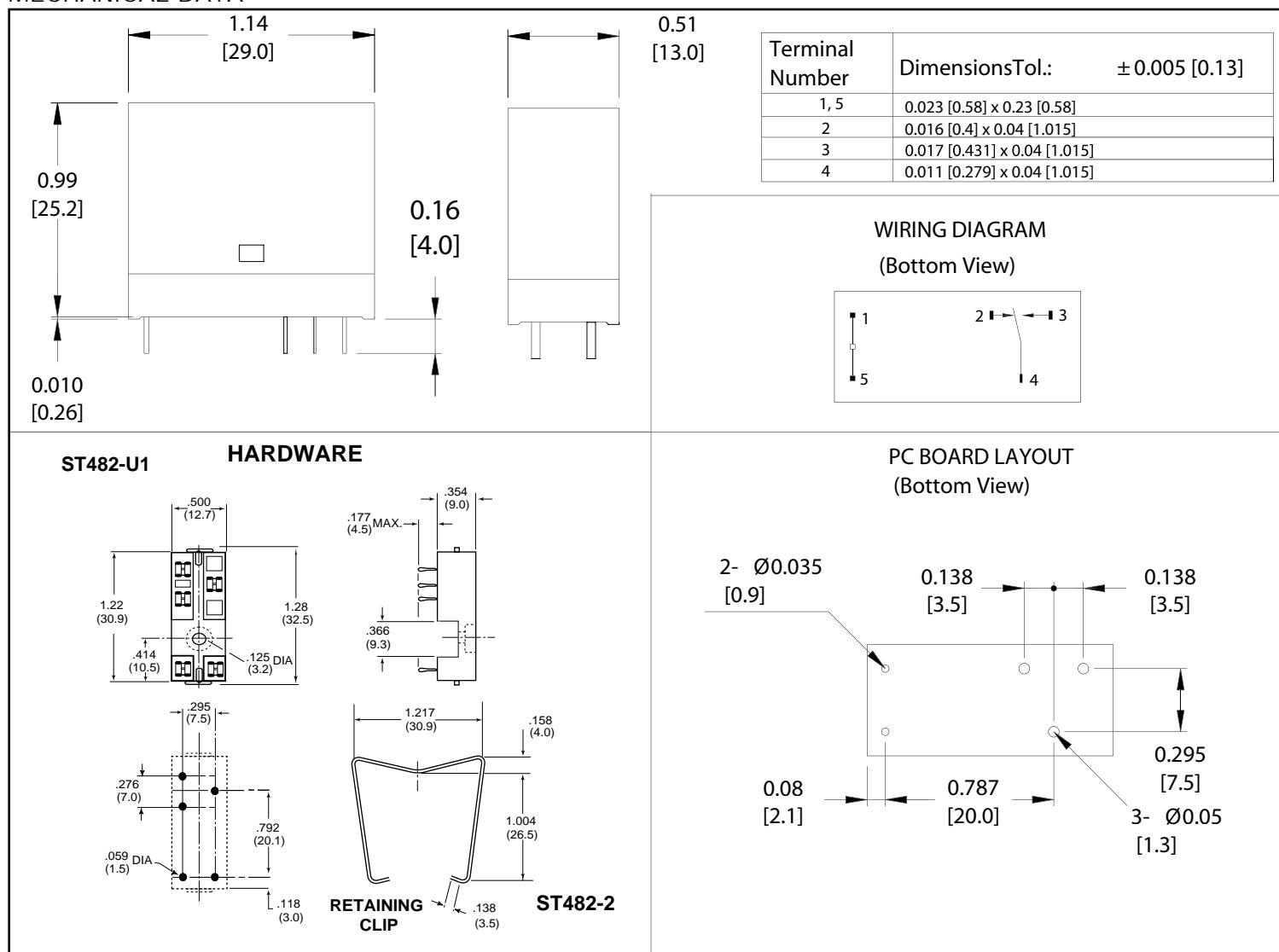
## RELAY ORDERING DATA

COIL SPECIFICATIONS - AC Coil					ORDER NUMBER
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA $\pm 10\%$	Coil Resistance $\pm 10\%$	Form C (SPDT)
6	4.8	7.8	150.0	16	AZAZ683-1C-6A
12	9.6	15.6	75.0	65	AZ683-1C-12A
24	19.2	31.2	37.5	260	AZ683-1C-24A
50	40.0	65.0	18.0	1130	AZ683-1C-50A
110	88.0	143.0	10.6	4600	AZ683-1C-110A
220	176.0	286.0	5.3	20200	AZ683-1C-220A
230	184.0	299.0	3.6	24900	AZ683-1C-230A

## HARDWARE ORDERING DATA

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

## MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm 0.010"$

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7/24/02W