### **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



Arrangement	SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 300 W, 2500 VA Max. switched current: 10 A Max. switched voltage: 150 VDC/400 VAC  Inductive load: (cosø =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)



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 36°C (65°F) at nominal coil voltage				
Temperature Rise					
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**

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 10 A 240 VAC Res.			
Operate Time (typical)	8 ms at nominal coil voltage  5 ms at nominal coil voltage (with no coil suppression)  5000 Vrms coil to contact 1000 Vrms between open contacts  1000 megohms min. at 20°C, 500 VDC 50% RH			
Release Time (typical)				
Dielectric Strength (at sea level for 1 min.)				
Insulation Resistance				
Dropout	Greater than 30% of nominal coil voltage  At nominal coil voltage  -40°C (-40°F) to 70°C (158°F)  -40°C (-40°F) to 105°C (221°F)  0.062" DA at 10–55 Hz			
Ambient Temperature Operating Storage				
Vibration				
	0.062 DA at 10-55 HZ			
Shock	10 g			
Shock Enclosure				
	10 g			
Enclosure	10 g PC (94V-0)			
Enclosure Terminals	10 g PC (94V-0) Tinned copper alloy, P.C.			

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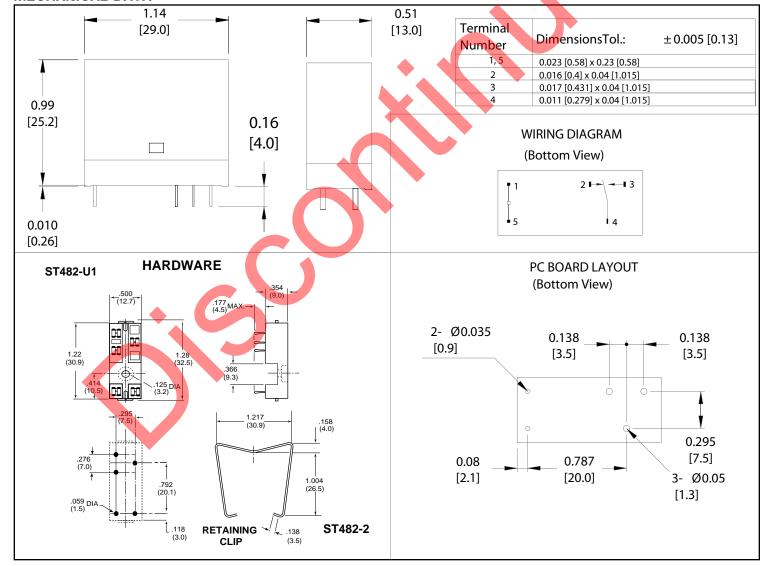
#### **RELAY ORDERING DATA**

COIL SPECIFIC	ORDER NUMBER				
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA ±10%	Coil Resistance ±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	AZ6 <mark>83</mark> -1C-230A

HARDWARE ORDERING DATA

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

#### **MECHANICAL DATA**



Dimensions in inches with metric equivalents in parentheses. Tolerance: ±0.010"

### MERICAN ZETTLER, INC.

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