

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	Resistive load: Max. switched power: 300 W, 2500 VA Max. switched current: 10 A Max. switched voltage: 150 VDC/400 VAC Inductive load: (cos ϕ =0.4) Max. switched power: 150W or 1875VA Max. Switched current: 10A Max. switched voltage: 125VDC or 400 VAC <small>Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.</small>
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

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 10 A 240 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 30% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	PC (94V-0)
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Weight	17 grams

AMERICAN ZETTLER, INC.

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7/24/02W

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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

Terminal Dimensions:

Terminal Number	Dimensions Tol.:	± 0.005 [0.13]
1, 5	0.023 [0.58] x 0.23 [0.58]	
2	0.016 [0.4] x 0.04 [1.015]	
3	0.017 [0.431] x 0.04 [1.015]	
4	0.011 [0.279] x 0.04 [1.015]	

WIRING DIAGRAM (Bottom View)

ST482-U1 HARDWARE

RETAINING CLIP

PC BOARD LAYOUT (Bottom View)

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

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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.