

AZ697

10 AMP MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low cost
- Epoxy sealed version available
- 10 Amp switching — single pole contacts
- UL TV-5
- Isolation spacing greater than 8mm
- UL Class B insulation system, Class F available
- UL, CUR file E44211; TÜV file R50129288



CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 300W or 2770VA Max. switched current: 10A Max. switched voltage: 150VDC* or 277VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	TV-5 at 120VAC [1][2][3] 10A at 277VAC, General Use [1] 10A at 30VDC, Resistive [1] 1/3 HP at 250VAC [1] 1/4 HP at 125VAC (N.O.) [1] 10A at 277VAC, General Use, 100k cycles [2][3] 10A at 30VDC, Resistive, 100k cycles [2][3] 1/3HP at 250VAC, 100k cycles [2][3] 1/4HP at 125VAC, 100k cycles [2][3]
TÜV	10A at 250VAC, 30VDC Res. 100k cycles [1][2] 10A at 250VAC, 30VDC Res. 50k cycles [3]
Material	Silver cadmium oxide [1], silver nickel [2], silver tin oxide [3], Gold plating available
Resistance	< 50 milliohms initially (24V, 1A voltage drop method)

COIL

Power At Pickup Voltage (typical)	257mW
Max. Continuous Dissipation	1.9W at 20°C (68°F) ambient (Class B) 2.5W at 20°C (68°F) ambient (Class F)
Temperature Rise	34°C (61°F) at nominal voltage
Temperature	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class F

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 10A, 240 VAC Res.
Operate Time (typical)	8ms at nominal coil voltage
Release Time (typical)	5ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000Vrms coil to contact 1000Vrms between open contacts
Insulation Resistance	1000 megohms min. at 20°C, 500VDC 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) Class B -40°C (-40°F) to 110°C (230°F) Class F -40°C (-40°F) to 130°C (266°F) Class B -40°C (-40°F) to 155°C (311°F) Class 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 (Approx.)	18 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

75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM

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AZ697

RELAY ORDERING DATA

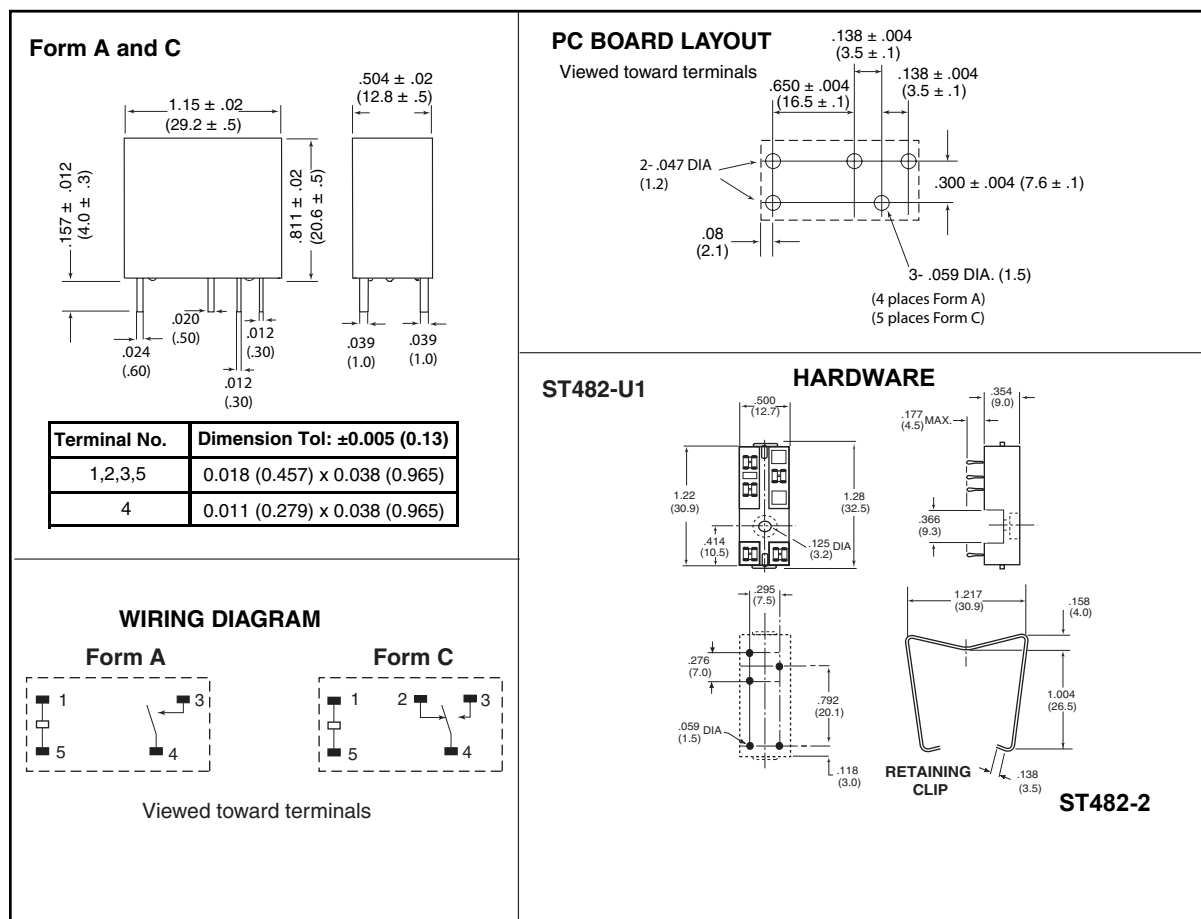
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohms $\pm 10\%$	Form A (SPST)	Form C (SPDT)
3	2.25	5.7	17	AZ697-1A-3D	AZ697-1C-3D
5	3.75	9.4	47	AZ697-1A-5D	AZ697-1C-5D
6	4.50	11.4	68	AZ697-1A-6D	AZ697-1C-6D
9	6.75	17.4	160	AZ697-1A-9D	AZ697-1C-9D
12	9.00	22.8	275	AZ697-1A-12D	AZ697-1C-12D
18	13.50	27.9	620	AZ697-1A-18D	AZ697-1C-18D
24	18.00	45.7	1100	AZ697-1A-24D	AZ697-1C-24D
48	36.00	89.0	4170	AZ697-1A-48D	AZ697-1C-48D
60	45.00	115.3	7000	AZ697-1A-60D	AZ697-1C-60D

*For silver nickel contacts change "-1A" or "-1C" to "-1AB" or "-1CB". For silver tin oxide contacts change "-1A" or "-1C" to "-1AE" or "-1CE". For epoxy seal change "D" to "DE". For gold plating change "D" or "DE" to "DA" or "DEA". For Class F insulation add suffix "F" to part number. 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.

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: $\pm .010$ " unless specified.

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