

AZ7335

DPDT MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000Vrms
- Low cost
- Epoxy sealed version available
- 8 Amp switching — double pole contacts
- Isolation spacing greater than 8mm
- Class F insulation system available
- UL, CUR E44211
- TUV R50290835



CONTACTS

Arrangement	DPST (2 Form A) DPDT (2 Form C)
Ratings	Resistive load: Max. switched power: 240W or 2000VA Max. switched current: 8A Max. switched voltage: 30VDC* or 250VAC *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	Normally Open Contacts (N.O.) 8A at 250VAC, Resistive, 100k cycles 8A at 30VDC, Resistive 100k cycles B300 Pilot Duty, 30K cycles Normally Closed Contacts (N.C.) 4A at 250VAC, Resistive, 100k cycles, 85°C 4A at 30VDC, Resistive, 100k cycles, 85°C
TUV	5A NO / 3A NC @ 250VAC / 30VDC, 100k cycles, 85°C 10A NO / 5A NC @ 250VAC / 30VDC, 100k cycles, 85°C 16A NO / 8A NC @ 250VAC / 30VDC, 100k cycles, 85°C
Material	Silver tin oxide
Resistance	< 100 milliohms max. (6V, 1A voltage drop method)

COIL

Power At Pickup Voltage (typical)	353mW (Standard), 300mW (Sensitive)
Max. Continuous Dissipation	1.2W at 20°C (68°F) ambient (Standard) 0.9W at 20°C (68°F) ambient (Sensitive)
Temperature Rise	40°C (104°F) at nominal coil voltage
Temperature	Max. 105°C (221°F) Max. 155°C (311°F) Class F

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 5A, 250VAC Res.
Operate Time (max)	15ms at nominal coil voltage (standard) 20ms at nominal coil voltage (sensitive)
Release Time (max)	8ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000VAC contact to coil 1000VAC between open contacts 2500VAC between contact sets 10,000V surge contact to coil
Insulation Resistance	1000 megohms min. at 500VDC
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.059" DA at 10–55 Hz
Shock Mechanical Operational	100 g 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	13 grams

NOTES

1. All values at 23°C (73.4°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.

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RELAY ORDERING DATA

COIL SPECIFICATIONS (STANDARD)				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance	Form A (DPST)	Form C (DPDT)
3	2.1	3.9	13 $\pm$ 10%	AZ7335-2A-3DK	AZ7335-2C-3DK
5	3.5	6.5	36 $\pm$ 10%	AZ7335-2A-5DK	AZ7335-2C-5DK
6	4.2	7.8	48.5 $\pm$ 10%	AZ7335-2A-6DK	AZ7335-2C-6DK
9	6.3	11.7	115 $\pm$ 10%	AZ7335-2A-9DK	AZ7335-2C-9DK
12	8.4	15.6	200 $\pm$ 10%	AZ7335-2A-12DK	AZ7335-2C-12DK
18	12.6	23.4	450 $\pm$ 10%	AZ7335-2A-18DK	AZ7335-2C-18DK
24	16.8	31.2	820 $\pm$ 10%	AZ7335-2A-24DK	AZ7335-2C-24DK
48	33.6	62.4	3300 $\pm$ 10%	AZ7335-2A-48DK	AZ7335-2C-48DK

RELAY ORDERING DATA

COIL SPECIFICATIONS (SENSITIVE)				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance	Form A (DPST)	Form C (DPDT)
3	2.25	3.9	17 $\pm$ 10%	AZ7335-2A-3DSK	AZ7335-2C-3DSK
5	3.75	6.5	48.5 $\pm$ 10%	AZ7335-2A-5DSK	AZ7335-2C-5DSK
6	4.50	7.8	68 $\pm$ 10%	AZ7335-2A-6DSK	AZ7335-2C-6DSK
9	6.75	11.7	155 $\pm$ 10%	AZ7335-2A-9DSK	AZ7335-2C-9DSK
12	9.00	15.6	270 $\pm$ 10%	AZ7335-2A-12DSK	AZ7335-2C-12DSK
18	13.50	23.4	600 $\pm$ 10%	AZ7335-2A-18DSK	AZ7335-2C-18DSK
24	18.00	31.2	1100 $\pm$ 10%	AZ7335-2A-24DSK	AZ7335-2C-24DSK
48	36.00	62.4	4400 $\pm$ 10%	AZ7335-2A-48DSK	AZ7335-2C-48DSK

*For epoxy seal add "E" after DK or DSK. For class F insulation system add suffix "F" to part number.

HARDWARE ORDERING DATA

DESCRIPTION	ORDER NUMBER	DESCRIPTION	ORDER NUMBER
Socket (5.0mm)	ST484-U1	Retainer	ST482-8

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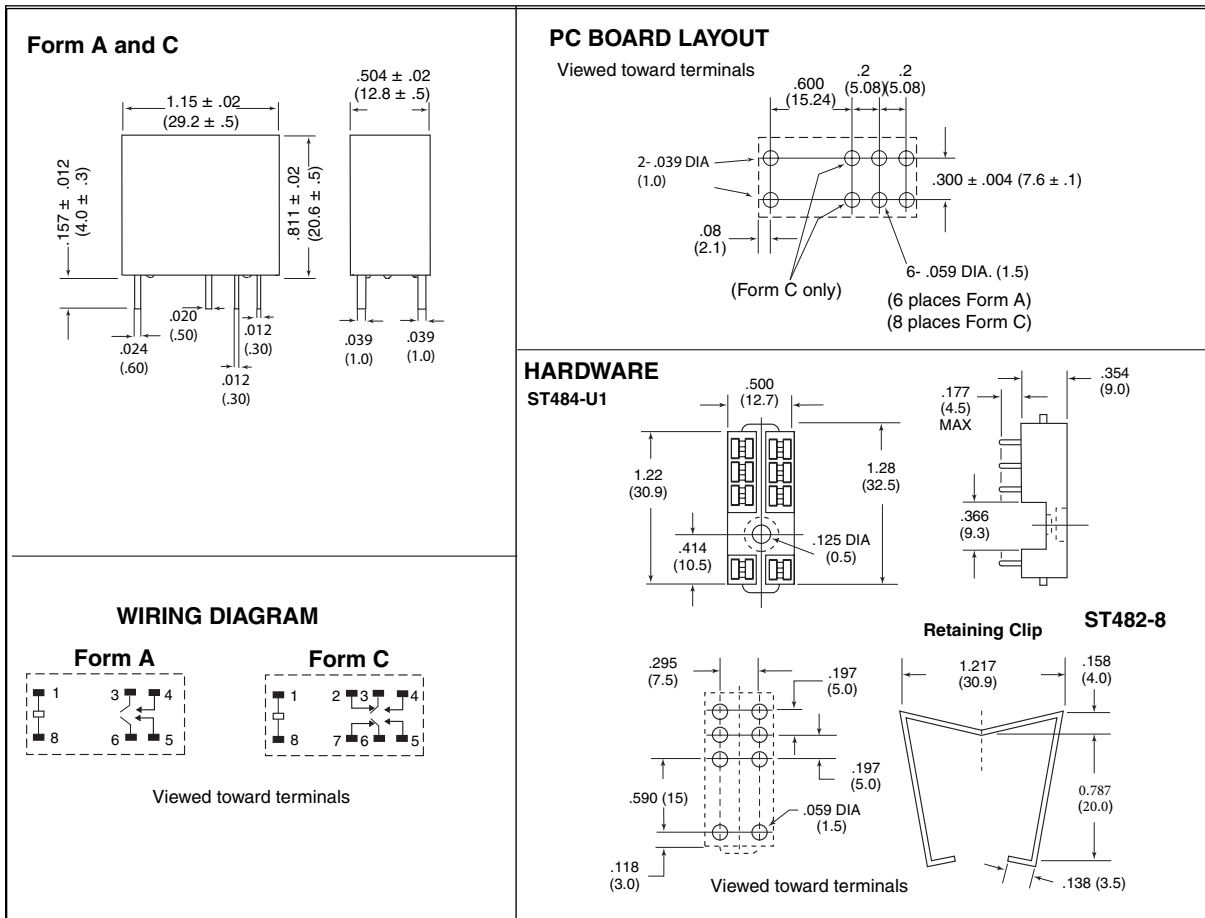
PHONE: (949) 831-5000

www.azettler.com

E-MAIL: SALES@AZETTLER.COM

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MECHANICAL DATA



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

*ST482-8 - Contact Zettler for ordering details.

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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.