

AZ7335

DPDT MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- 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: 240 W or 2000 VA Max. switched current: 8 A Max. switched voltage: 30* VDC or 250 VAC *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load UL, CUR	Normally Open Contacts (N.O.) 8 A at 250 VAC, Resistive, 100k cycles 8 A at 30 VDC, Resistive, 100k cycles Normally Closed Contacts (N.C.) 4 A at 250 VAC, Resistive, 100k cycles 4 A at 30 VDC, Resistive, 100k cycles
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. (6 V, 1 A voltage drop method)

COIL

Power At Pickup Voltage (typical)	353 mW(Standard), 300 mW(Sensitive)
Max. Continuous Dissipation	1.2 W at 20°C (68°F) ambient (Standard) 0.9 W 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 5 A 250 VAC Res.
Operate Time (max)	15 ms at nominal coil voltage (standard) 20 ms at nominal coil voltage (sensitive)
Release Time (max)	8 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 VAC contact to coil 1000 VAC between open contacts 2500 VAC between contact sets 10,000 V surge contact to coil
Insulation Resistance	1000 megohms min. at 500 VDC
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	100G 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 ±10%	AZ7335-2A-3DK	AZ7335-2C-3DK
5	3.5	6.5	36 ±10%	AZ7335-2A-5DK	AZ7335-2C-5DK
6	4.2	7.8	48.5 ±10%	AZ7335-2A-6DK	AZ7335-2C-6DK
9	6.3	11.7	115 ±10%	AZ7335-2A-9DK	AZ7335-2C-9DK
12	8.4	15.6	200 ±10%	AZ7335-2A-12DK	AZ7335-2C-12DK
18	12.6	23.4	450 ±10%	AZ7335-2A-18DK	AZ7335-2C-18DK
24	16.8	31.2	820 ±10%	AZ7335-2A-24DK	AZ7335-2C-24DK
48	33.6	62.4	3300 ±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 ±10%	AZ7335-2A-3DSK	AZ7335-2C-3DSK
5	3.75	6.5	48.5 ±10%	AZ7335-2A-5DSK	AZ7335-2C-5DSK
6	4.50	7.8	68 ±10%	AZ7335-2A-6DSK	AZ7335-2C-6DSK
9	6.75	11.7	155 ±10%	AZ7335-2A-9DSK	AZ7335-2C-9DSK
12	9.00	15.6	270 ±10%	AZ7335-2A-12DSK	AZ7335-2C-12DSK
18	13.50	23.4	600 ±10%	AZ7335-2A-18DSK	AZ7335-2C-18DSK
24	18.00	31.2	1100 ±10%	AZ7335-2A-24DSK	AZ7335-2C-24DSK
48	36.00	62.4	4400 ±10%	AZ7335-2A-48DSK	AZ7335-2C-48DSK

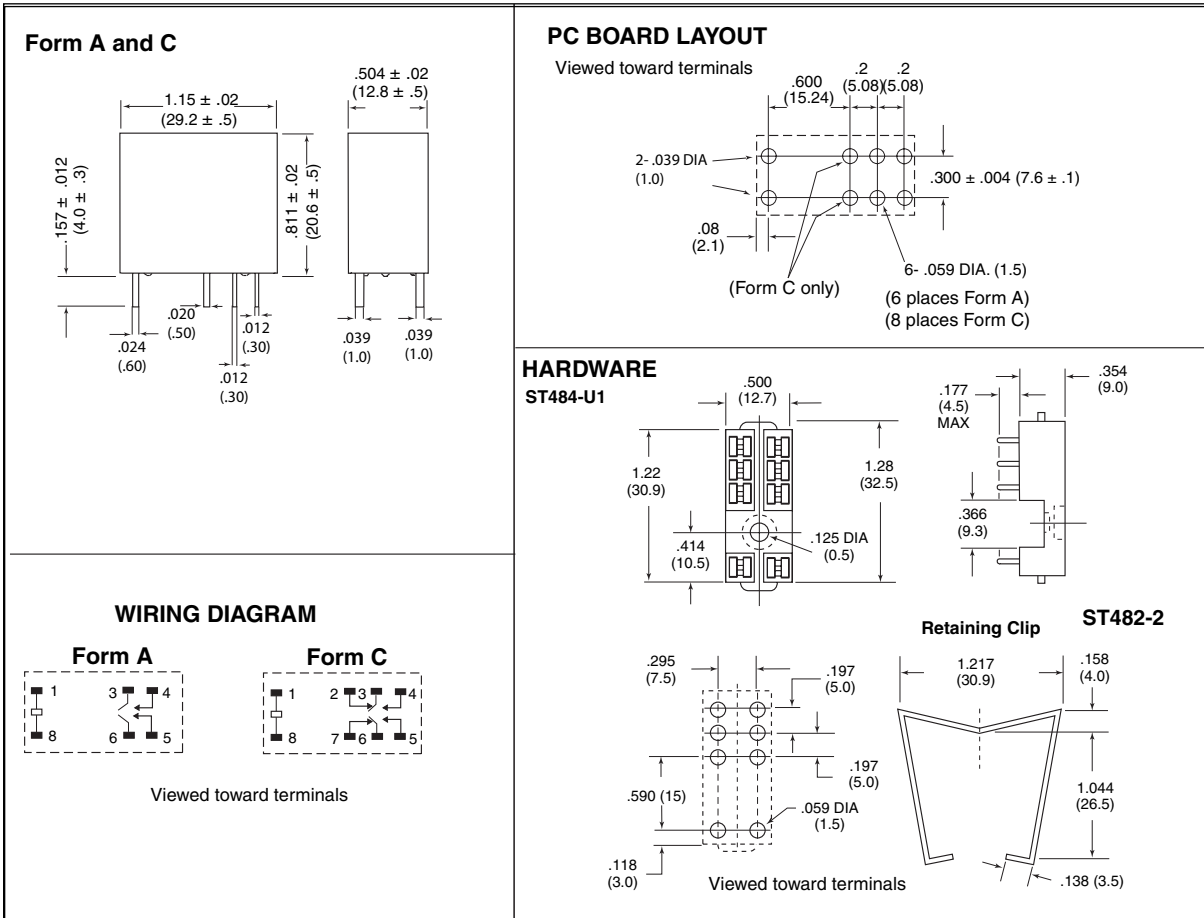
*For epoxy seal add "E" after DK or DSK. For class F insulation system add suffix "F" to part number.

HARDWARE ORDERING DATA

DESCRIPTION	ORDER NUMBER	DESCRIPTION	ORDER NUMBER
Socket (5.0 mm)	ST484-U1	Retainer	ST482-2

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MECHANICAL DATA



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