

# AZ733W

## DPST MINIATURE POWER RELAY

### FEATURES

- Dielectric strength 5000 Vrms
- 1.5 mm contact gap
- Epoxy sealed version available
- 10 Amp switching — double pole contacts
- Isolation spacing greater than 8 mm
- UL, CUR file E44211
- TÜV file R9659062



### CONTACTS

<b>Arrangement</b>	DPST (2 Form A)
<b>Ratings</b>	Resistive load: Max. switched power: 240 W or 2500 VA Max. switched current: 10 A Max. switched voltage: 150 VDC* or 400 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load UL, CUR</b>	10 A at 250 VAC general use 100k cycles [1] [2] [3] TV-3 at 125 VAC [1]
<b>TÜV</b>	10 A at 30 VDC resistive, 100k cycles [1] [2] [3] 10 A at 250 VAC resistive, 100k cycles [1] [2] [3]
<b>Material</b>	Silver cadmium oxide [1], silver tin oxide [2] or silver nickel [3]
<b>Resistance</b>	< 50 milliohms initially

### COIL

<b>Power At Pickup Voltage (typical)</b>	450 mW
<b>Max. Continuous Dissipation</b>	2.0 W at 20°C (68°F) ambient
<b>Temperature Rise</b>	40°C (83°F) at nominal coil voltage
<b>Temperature</b>	Max. 130°C (266°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

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 5 x 10 <sup>5</sup> 1 x 10 <sup>5</sup> at 10 A 250 VAC Res.
<b>Operate Time (typical)</b>	10 ms at nominal coil voltage
<b>Release Time (typical)</b>	4 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	5000 Vrms contact to coil 3000 Vrms between open contacts 3000 Vrms between contact sets
<b>Insulation Resistance</b>	1000 megohms min. at 20°C, 500 VDC, 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	at nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" (1.5 mm) DA at 10–55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight</b>	18 grams
<b>Packing unit in pcs</b>	50 per plastic tray / 500 per carton box

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## RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm	Unsealed	Sealed
3	2.25	4.7	11.3 ±10%	AZ733W-2A-3D	AZ733W-2A-3DE
5	3.8	7.9	31 ±10%	AZ733W-2A-5D	AZ733W-2A-5DE
6	4.5	9.5	45 ±10%	AZ733W-2A-6D	AZ733W-2A-6DE
9	6.8	14.2	101 ±10%	AZ733W-2A-9D	AZ733W-2A-9DE
12	9.0	18.9	180 ±10%	AZ733W-2A-12D	AZ733W-2A-12DE
18	13.5	28.4	405 ±10%	AZ733W-2A-18D	AZ733W-2A-18DE
24	18.0	37.9	720 ±15%	AZ733W-2A-24D	AZ733W-2A-24DE
48	36.0	75.9	2,880 ±15%	AZ733W-2A-48D	AZ733W-2A-48DE
60	45.0	94.8	4,500 ±15%	AZ733W-2A-60D	AZ733W-2A-60DE
110	82.5	183.3	16,800 ±15%	AZ733W-2A-110D	AZ733W-2A-110DE

\* Add suffix "B" to "2A" for silver nickel contacts.  
Add suffix "E" to "2A" for silver tin oxide contacts.

## MECHANICAL DATA

Terminal No.	Dimensions Tol.: ± 0.005 (0.13)
1,4,5,8	0.018 (0.457) x 0.038 (0.965)
3,6	0.011 (0.279) x 0.038 (0.965)

**PC BOARD LAYOUT**

Viewed toward terminals

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**WIRING DIAGRAM**

Viewed toward terminals

Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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