AZ733WC

DPDT MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- 1.5 mm contact gap
- Epoxy sealed version available
- Isolation spacing greater than 8 mm
- UL Class B insulation system, class F available
- UL, CUR file E44211
- TÜV file R50311225

CONTACTS

Arrangement	DPDT (2 Form C)
Ratings	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.
Rated Load	
UL, CUR	**Silver Cadmium oxide contacts:** TV-3, 125 VAC, 25K cycles, NO Side Only 10A, 250 VAC, 100K cycles, General Use 10A, 30 VDC, 50K cycles NO/NC contacts, Res **Silver Tin oxide contacts:** 12 A, 277 VAC / 250 VAC, Resistive, 70°C, 8K cycles 1/3 HP 125 VAC, 40°C, 1K cycles 3/4 HP 250 VAC, 40°C, 1K cycles
TÜV	10 A at 30 VDC, 250 VAC resistive
Material	Silver cadmium oxide; Silver Tin oxide; Gold Plate optional
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	.8 mW
Max. Continuous Dissipation	2.3 W at 20°C (68°F) ambient 1.9 W at 40°C (104°F) ambient
Temperature Rise	51°C (65°F) at nominal coil voltage
Temperature	Max. 130°C (266°F)

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 5×10^5 1×10^5 at 10 A 240 VAC Res.
Operate Time (typical)	10 ms at nominal coil voltage 7 ms at 1.5 x nominal coil voltage 4.5 ms at 2.0 x nominal coil voltage
Release Time (typical)	4 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms contact to coil 3000 Vrms between open contacts 3000 Vrms between contact sets
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 10% 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 130°C (266°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	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.

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5/20/15

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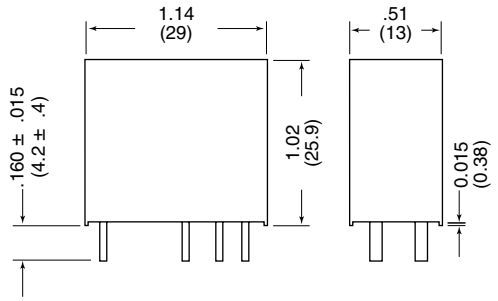
RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate* VDC	Max. Continuous VDC	Coil Resistance	Unsealed	Sealed
3	3	5.0	11.3 ±10%	AZ733WC–2C–3D	AZ733WC–2C–3DE
5	5	8.4	31 ±10%	AZ733WC–2C–5D	AZ733WC–2C–5DE
6	6	10.1	45 ±10%	AZ733WC–2C–6D	AZ733WC–2C–6DE
9	9	15.5	101 ±10%	AZ733WC–2C–9D	AZ733WC–2C–9DE
12	12	20.3	180 ±10%	AZ733WC–2C–12D	AZ733WC–2C–12DE
18	18	31.2	405 ±10%	AZ733WC–2C–18D	AZ733WC–2C–18DE
24	24	40.6	720 ±15%	AZ733WC–2C–24D	AZ733WC–2C–24DE
48	48	79.1	2,880 ±15%	AZ733WC–2C–48D	AZ733WC–2C–48DE
60	60	102.0	4,500 ±15%	AZ733WC–2C–60D	AZ733WC–2C–60DE

*Due to the special construction of this relay, the “Must Operate” voltage is the same as the “Nominal Coil” voltage. It is recommended that the relay be energized with at least 1.5 X coil nominal and then return the operating voltage to coil nominal; Add 'E' after 2C for Silver Tin Oxide contacts; add 'A' suffix for gold plate; add 'F' suffix for class F.

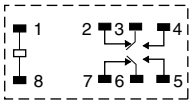
MECHANICAL DATA



Terminal No.	Dimensions Tol.: ± 0.005 (0.13)
1,2,4,5,7,8	0.018 (0.457) x 0.038 (0.965)
3,6	0.011 (0.279) x 0.038 (0.965)

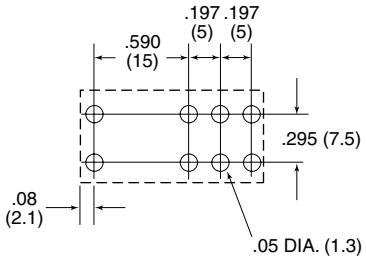
WIRING DIAGRAM

Form C



Viewed toward terminals

PC BOARD LAYOUT



Viewed toward terminals

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