

AZ723

MINIATURE POWER RELAY

FEATURES

- AC coils
- Dielectric strength 5000 Vrms
- Low cost
- Flux tight package
- 5 Amp switching - double pole contacts
- Isolation spacing greater than 8mm
- Molded materials: all 94V-0
- UL and Canadian file E43203



CONTACTS

Arrangement	DPST (2 Form A) DPDT (2 Form C)
Ratings	Resistive load: Max. switched power: 150 W, 1250 VA Max. switched current: 5 A Max. switched voltage: 150 VDC/400 VAC Inductive load: (cosϕ =0.4) Max. switched power: 90W or 500VA Max. Switched current: 5A Max. switched voltage: 125VDC or 400 VAC <small>Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.</small>
Rated Load UL, CUR	5 A 250 VAC, resistive 5 A 30VDC resistive 1/3 HP 240 VAC
Min. Load	5 VDC, .01A
Material	Silver alloy
Resistance	30 milliohms initially (6V, 1A method)

COIL

Power At Pickup Voltage (typical)	576 mW
Max. Continuous Dissipation	1.5 W at 20°C (68°F) ambient 1.2 W at 40°C (104°F) ambient
Temperature Rise	36°C (97°F) at nominal coil voltage
Temperature	Max. 105°C (221°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

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at rated load
Operate Time (typical)	8 ms at nominal coil voltage
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 3000 Vrms between contact sets 1000 Vrms between open contacts
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC 50% RH
Dropout	Greater than 30% 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 105°C (221°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	PC (94V-0)
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Weight	17 grams

ZETTLER electronics

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RELAY ORDERING DATA

COIL SPECIFICATIONS - AC Coil					ORDER NUMBER	
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA $\pm 10\%$	Coil Resistance $\pm 10\%$	Form A (DPST)	Form C (DPDT)
6	4.8	7.8	150.0	16	AZ723-2A-6A	AZ723-2C-6A
12	9.6	15.6	75.0	65	AZ723-2A-12A	AZ723-2C-12A
24	19.2	31.2	37.5	260	AZ723-2A-24A	AZ723-2C-24A
50	40.0	65.0	18.0	1130	AZ723-2A-50A	AZ723-2C-50A
110	88.0	143.0	10.6	4600	AZ723-2A-110A	AZ723-2C-110A
220	176.0	286.0	5.3	20200	AZ723-2A-220A	AZ723-2C-220A
230	184.0	299.0	3.6	24900	AZ723-2A-230A	AZ723-2C-230A

MECHANICAL DATA

Form A and C

Terminal number	Dimension (in)	Dimension (mm)
1	0.23 (0.58)	0.23 (0.58)
2	0.07 (0.18)	0.040 (1.015)
3	0.01 (0.13)	0.040 (1.015)
4	0.01 (0.13)	0.040 (1.015)
5	0.01 (0.13)	0.040 (1.015)

Tol. XX ± 0.010 (0.26)

PC BOARD LAYOUT (Bottom View)

.035 Dia. (0.9)
2 places

.197 (5) (5)

.590 (15)

.295 (7.5)

.08 (2.1)

.05 DIA. (1.3)
(Form C only) (4 places Form A)
(6 places Form C)

WIRING DIAGRAM (Bottom View)

Form A

Form C

Dimensions in inches with metric equivalents in parentheses. Tolerance: ± 0.010 "