

AZ673

MINIATURE POWER RELAY

FEATURES

- Compact size for dense PCB layouts
- High power contacts (10A) for use in consumer appliances, HVAC, TV
- Withstands surges of up to 10,000 volts
- Epoxy sealed version available
- Insulation Class B standard
- UL/CUR file E44211
- TÜV file R50155379

CONTACTS

Arrangement	SPST – N.O., SPDT
Ratings	Non - inductive load: Max. switched power: 300 W or 2500 VA Max. switched current: 10A Max. switched voltage: 150* 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,	10 A at 250 VAC, general use, 100k 10 A at 30 VDC resistive, 100K 1/8 HP at 125 VAC 1/4 HP at 250 VAC TV-5 at 125 VAC (1 Form A only)
TÜV	10 A at 250 VAC resistive, 100k 10 A at 30 VDC resistive, 100k
Material	Silver cadmium oxide or silver tin oxide
Resistance	< 100 milliohms initially (6 V, 1A voltage drop method)

COIL

Power At Pickup Voltage (typical)	300 mW standard coil 140 mW sensitive coil
Max. Continuous Dissipation	1.2 W at 20°C (68°F) ambient
Temperature Rise	48°C (86°F) at nominal coil voltage, std. coil 22°C (40°F) at nominal coil voltage, sens. coil
Temperature	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.
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GENERAL DATA

Life Expectancy Mechanical Electrical	1 x 10 ⁷ 1 x 10 ⁵ at 10 A 240 VAC Res.
Operate Time (typical)	15 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.)	1000 Vrms contact to contact 4000 Vrms N.O. contact to coil 3000 Vrms N.C. contact to coil 10,000 V surge contact to coil
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	5% of nominal coil voltage
Ambient Temperature Operating	-40°C (-40°F) to 80°C (176°F)
Storage	-40°C (-40°F) to 105°C (221°F) sensitive coil -40°C (-40°F) to 130°C (266°F)
Vibration	1.5mm DA at 10–55 Hz
Shock	10 g
Enclosure	Plastic
Terminals	PC, tinned
Max. Solder Temp.	250°C (482°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C
Max. Immersion Time	30 seconds
Weight	12 grams



AMERICAN ZETTLER, INC.

www.azettler.com

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RELAY ORDERING DATA

COIL SPECIFICATIONS — STANDARD COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	1 Form A	1 Form C
5	3.75	7.5	47	AZ673-1A-5D	AZ673-1C-5D
6	4.50	9.0	68	AZ673-1A-6D	AZ673-1C-6D
9	6.75	13.6	155	AZ673-1A-9D	AZ673-1C-9D
12	9.00	18.0	270	AZ673-1A-12D	AZ673-1C-12D
18	13.5	27.3	620	AZ673-1A-18D	AZ673-1C-18D
24	18.0	36.0	1080	AZ673-1A-24D	AZ673-1C-24D
48	36.0	72.7	4400	AZ673-1A-48D	AZ673-1C-48D

COIL SPECIFICATIONS — SENSITIVE COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	1 Form A	
5	3.75	11.0	100	AZ673-1A-5DS	
6	4.50	13.2	145	AZ673-1A-6DS	
9	6.75	19.7	325	AZ673-1A-9DS	
12	9.00	26.3	575	AZ673-1A-12DS	
18	13.5	39.5	1300	AZ673-1A-18DS	
24	18.0	52.6	2310	AZ673-1A-24DS	

*For epoxy sealed version add suffix "E". For silver tin oxide contacts add suffix "A".

MECHANICAL DATA

FORM C VERSION SHOWN

DIM. LETTER	DIM. SEALED		DIM. UNSEALED	
	INCHES	MM	INCHES	MM
A	.965	24.5	.937	23.8
B	.413	10.5	.374	9.5
C	.093	2.4	.079	2.0
D	.059	1.5	.039	1.0

PC BOARD LAYOUT

VIEWED TOWARD TERMINALS

CIRCUIT DIAGRAM

VIEWED TOWARD TERMINALS

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



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