AZ991

MINIATURE PC BOARD RELAY

FEATURES

- Contacts rated at 3, 5 or 10 Amps
- Meets FCC Part 68.302 1500 lightning surge
- Meets FCC Part 68.304 1000 V dielectric
- 0.240" (6.1 mm) min. between coil and contact
- Low cost
- DC coils to 48 VDC
- Flux-tight available
- UL, CUR file E44211

CONTACTS

Arrangement	SPDT (1 Form C) (Form A available on request)
Ratings	Resistive load:
Light Duty	Max. switched power: 90 W or 831 VA Max. switched current: 3 A Max. switched voltage: 30 VDC or 277 VAC UL Rating: 3 A at 30 VDC or 277 VAC
Medium Duty	Max. switched power: 150 W or 1250 VA Max. switched current: 5 A Max. switched voltage: 30 VDC or 277 VAC UL Rating: 5 A at 30 VDC or 277 VAC 1/10 HP 277 VAC
Heavy Duty	Max. switched power: 300 W or 1250 VA Max. switched current: 10 A Max. switched voltage: 30 VDC or 125 VAC UL Rating: 5 A at 30 VDC or 10 A 125 VAC
Material	Silver cadmium oxide
Resistance	< 100 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	256 mW
Max. Continuous Dissipation	1.1 W at 20°C (68°F) ambient 0.86 W at 40°C (104°F) ambient
Temperature Rise	30°C (54°F) at nominal coil voltage
Temperature	Max. 105°C (267°F)



GENERAL DATA

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Life Expectancy	Minimum operations
Mechanical	1 x 10 ⁷
Electrical 🕘	⊿1 x 10⁵ at 10 A 120 VAC Res.
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Operate Time (typical)	6 ms at nominal coil voltage
Release Time (typical)	2 ms at nominal coil voltage
Dielectric Strength	2500 Vrms contact to coil
(at sea level for 1 min.)	750 Vrms across contacts
	Meets FCC Part 68.302 lightning surge
	Meets FCC Part 68.304 1000 V dielectric
Insulation Resistance	100 megohms min. at 500 VDC, 20°C
	50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature	
Operating	-40°C (-13°F) to 70°C (158°F)
Storage	-55°C (-67°F) to 105°C (221°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 (500°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	30 grams

NOTES

- 1. All values at 20°C (68°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Unsealed version available upon request.
- 4. Tape should be pulled off after wave solder and cleaning.
- 5. Specifications subject to change without notice.





www.azettler.com

AZ991

RELAY ORDERING DATA

MECHANICAL DATA

0.87 (22)

→||∢

.012 (0.3)

.040 (1.1)

0.30

→ | ◄

.040

(1.1)

0.15 0.30

(3.9) (7.62) (7.62)

0.55 (14)

0.72

(18.2)

0.15

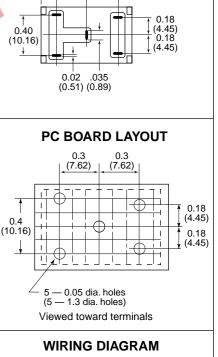
(3.9)

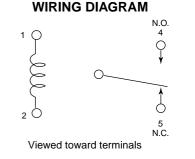
.019

(0.5)

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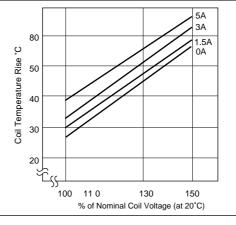


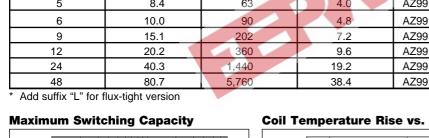
Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"



3/20/01W

Coil Temperature Rise vs. Coil Power





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