AZ6962

10 AMP SUBMINIATURE POWER RELAY

FEATURES

- High sensitivity, 120 mW pickup
- Dielectric strength 5000 Vrms
- Isolation spacing greater than 10 mm
- Proof tracking index (PTI/CTI) 250
- 10 Amp switching capability
- Epoxy sealed
- UL, CUR file E43203
- VDE file 40010953

CONTACTS

Arrangement	SPDT (1 Form C), DPDT (2 Form C) SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 240 W or 2500 VA (2 Form C: 150 W or 1250 VA) Max. switched current: 10 A (2 Form C: 5 A) Max. switched voltage: 240 VDC* or 440 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 resistive, 30k cycles (1 Form C) 10 A at 30 VDC resistive, 30k cycles (1 Form C) B300, R300 Pilot Duty 5 A at 250 VAC resistive, 30k cycles (2 Form C)
VDE	8 A at 250 VAC resistive, 100k cycles (1 Form A, and 1 Form C)
Material	Silver tin oxide
Resistance	< 100 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	120 mW (up to 24 VDC coil) 140 mW (48 VDC and 60 VDC coil)
Max. Continuous Dissipation	1.2 W at 20°C (68°F) ambient
Temperature Rise	20°C (36°F) at nominal coil voltage
Temperature	Max. 130°C (266°F)

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 3×10^7 1×10^5 at 8 A 250 VAC res.
Operate Time (typical)	7 ms at nominal coil voltage
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 2500 Vrms between contact sets 1000 Vrms between open contacts
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 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	Break Contact: 5 g at 10 …500 Hz Make Contact: 20 g at 10…500 Hz
Shock	10 g
Enclosure	P.B.T. polyester, UL94 V-O
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	8 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.

AMERICAN ZETTLER, INC. www.azettler.com
75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM
8/30/12

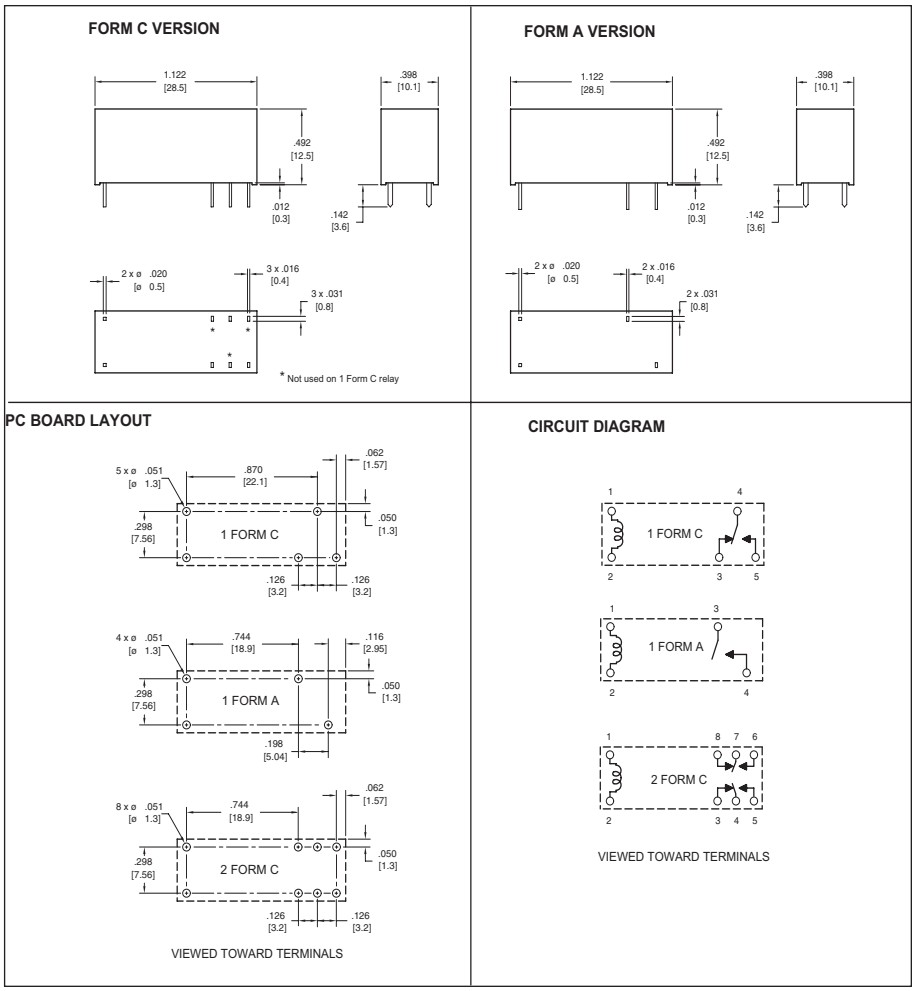
AZ6962

RELAY ORDERING DATA

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm	1 Form A (SPST-NO)	1 Form C (SPDT)
5	3.5	11.6	113 ± 10%	AZ6962–1AE–5DE	AZ6962–1CE–5DE
6	4.2	14.0	164 ± 10%	AZ6962–1AE–6DE	AZ6962–1CE–6DE
9	6.3	20.8	360 ± 10%	AZ6962–1AE–9DE	AZ6962–1CE–9DE
12	8.4	27.2	620 ± 10%	AZ6962–1AE–12DE	AZ6962–1CE–12DE
15	10.5	31.0	970 ± 10%	AZ6962–1AE–15DE	AZ6962–1CE–15DE
18	12.6	39.4	1,295 ± 10%	AZ6962–1AE–18DE	AZ6962–1CE–18DE
24	16.8	53.1	2,350 ± 10%	AZ6962–1AE–24DE	AZ6962–1CE–24DE
48	33.6	98.0	8,000 ± 15%	AZ6962–1AE–48DE	AZ6962–1CE–48DE
60	42.0	122.4	12,500 ± 15%	AZ6962–1AE–60DE	AZ6962–1CE–60DE

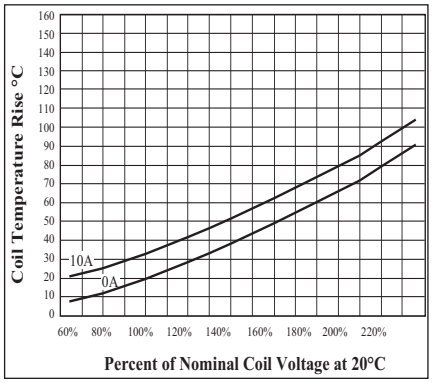
Substitute “2C” in place of “1C” for 2 Form C relay. Add suffix “A” for gold plated contacts.

MECHANICAL DATA



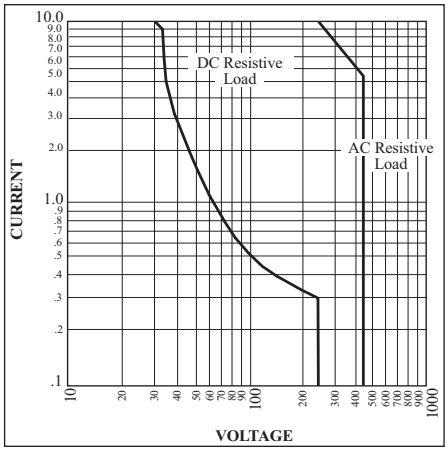
Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

Coil Temperature Rise



Maximum Switching Capacity

(1 Form A and 1 Form C)



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