

AZ6963

10 AMP SUBMINIATURE POWER RELAY

FEATURES

- High sensitivity, 120 mW pickup
- Dielectric strength 5000 Vrms
- 10 Amp switching capability
- Epoxy sealed version available
- UL, CUR file E43203



CONTACTS

Arrangement	SPDT (1 Form C) SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 300 W or 2500 VA Max. switched current: 10 A Max. switched voltage: 125 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	8 A at 250 VAC General Use 10 A at 30 VDC General Use
Material	Silver tin oxide or silver nickel. Gold plating available.
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 Temperature Rise	1.2 W at 20°C (68°F) ambient 20°C (36°F) at nominal coil voltage
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.

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵
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: 10-500 Hz, Double Amplitude, 0.8mm Make Contact: 10-500 Hz, Double Amplitude, 1.65mm
Shock	NO: 10g NC: 5g
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

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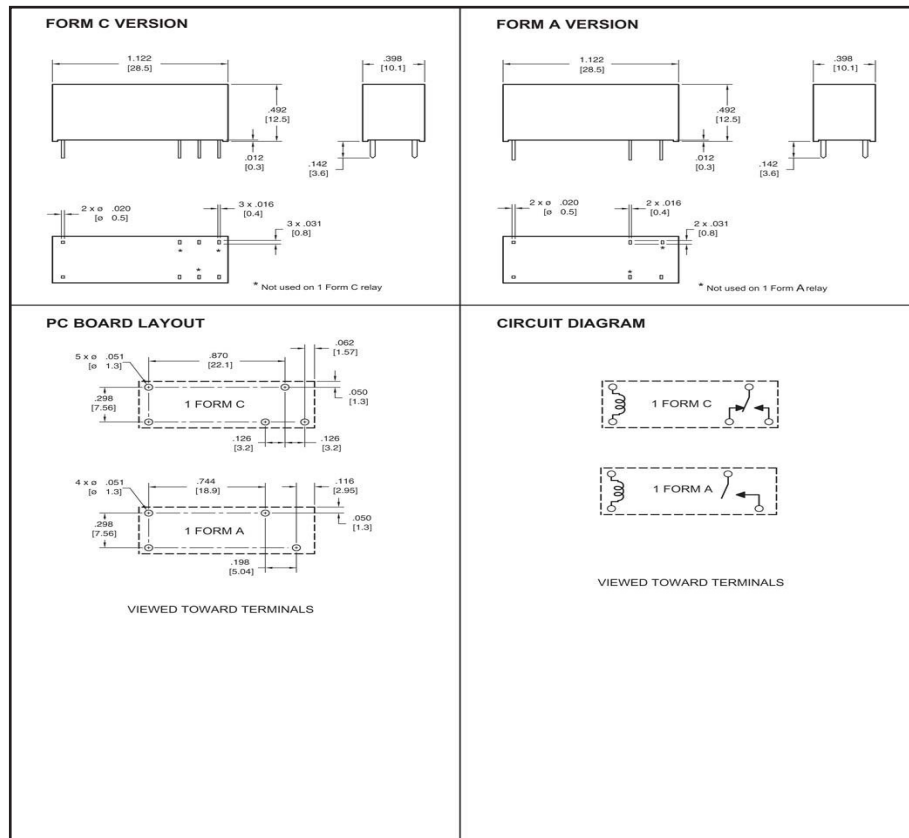
AZ6963

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%	AZ6963-1AE-5D	AZ6963-1CE-5D
6	4.2	14.0	164 ± 10%	AZ6963-1AE-6D	AZ6963-1CE-6D
9	6.3	20.8	360 ± 10%	AZ6963-1AE-9D	AZ6963-1CE-9D
12	8.4	27.2	620 ± 10%	AZ6963-1AE-12D	AZ6963-1CE-12D
15	10.5	31.0	800 ± 10%	AZ6963-1AE-15D	AZ6963-1CE-15D
18	12.6	39.4	1,295 ± 10%	AZ6963-1AE-18D	AZ6963-1CE-18D
24	16.8	53.1	2,350 ± 10%	AZ6963-1AE-24D	AZ6963-1CE-24D
48	33.6	98.0	8,000 ± 15%	AZ6963-1AE-48D	AZ6963-1CE-48D
60	42.0	122.4	12,500 ± 15%	AZ6963-1AE-60D	AZ6963-1CE-60D

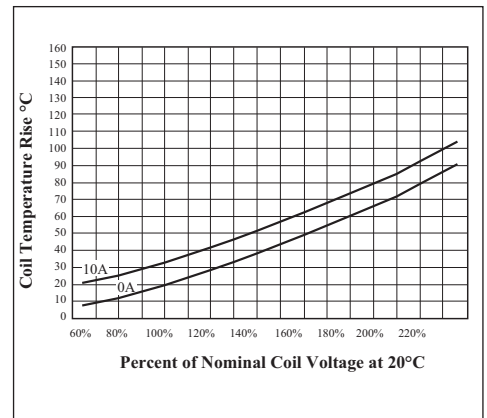
*Substitute suffix "B" in place of "E" at "1AE" or "1CE" for silver nickel contacts. Add suffix "E" at the end of order number for sealed version. Add suffix "A" at the end of order number for gold plated contacts (at silver nickel only).

MECHANICAL DATA

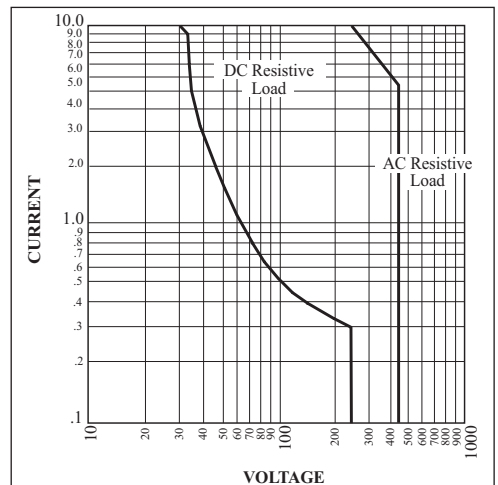


Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

Coil Temperature Rise



Maximum Switching Capacity (1 Form A, and 1 Form C)



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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.