

AZ696

10 AMP SUBMINIATURE POWER RELAY

FEATURES

- Miniature size: Form A version: 0.63" (16mm) height, 1.10" (30mm) length, 0.39" (10mm) width
- High sensitivity, 100mW pickup
- Dielectric strength 4000Vrms
- Isolation spacing greater than 8mm
- Approvals/Standards include: UL, VDE, IEC
- 10 Amp switching capability
- Epoxy sealed for automatic wave soldering and cleaning
- UL, CUR file E43203
- VDE file 40012571



CONTACTS

Arrangement	SPDT (1 Form C) SPST (1 Form A), SPST (1 Form B)
Ratings	Resistive load: Max. switched power: 300W or 2500VA Max. switched current: 10A Max. switched voltage: 240VDC* or 440VAC *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Rated Load	10A at 30VDC Resistive 10A at 250VAC General use 1/4 HP at 120VAC 1/2 HP at 250VAC B300 Pilot duty
UL	1 Form A / 1 Form B (unsealed) 10 A at 250VAC, resistive, 85°C, 50k cycles
VDE	1 Form C (unsealed) 10 A at 250VAC, resistive, 85°C, 50k cycles 1 Form A / 1 Form B / 1 Form C (sealed) 10 A at 250VAC, resistive, 85°C, 10k cycles
Material	Silver tin oxide
Resistance	< 30 milliohms initially (at 6V, 1A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	110mW
Max. Continuous Dissipation	1.5W at 20°C (68°F) ambient 1.2W at 40°C (104°F) ambient
Temperature Rise	20°C (36°F) at nominal coil voltage
Temperature	Max. 110°C (230°F)

GENERAL DATA

Life Expectancy	Minimum operations 10 million
Mechanical	1 X 10 ⁵ at 8A, 250VAC Res.
Electrical	
Operate Time (typical)	10ms at nominal coil voltage
Release Time (typical)	5ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	4000Vrms coil to contact 1000Vrms between open contacts
Insulation Resistance	1000 megohms min. at 20°C, 500VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature	At nominal coil voltage
Operating Storage	-40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 110°C (230°F)
Vibration	0.062" (1.5mm) DA at 10–55Hz
Shock	20g
Enclosure	P.B.T. polyester
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	11 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.
4. It's recommended to remove vent nipple on sealed versions to expand life expectancy when switching higher loads.

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RELAY ORDERING DATA

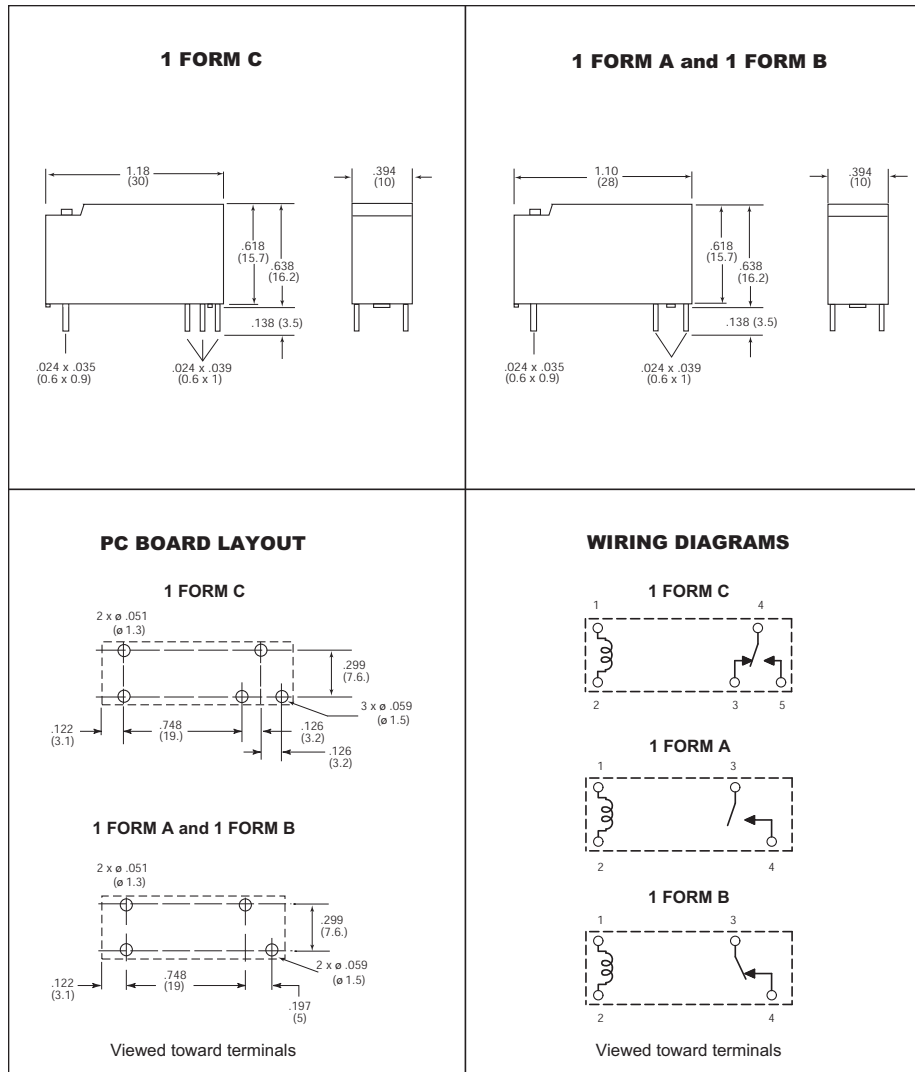
COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance Ohms $\pm 10\%$	1 Form A (SPST-NO)	1 Form C (SPDT)
5	3.5	12.0	110	AZ696-1AE-5D	AZ696-1CE-5D
6	4.2	14.5	160	AZ696-1AE-6D	AZ696-1CE-6D
9	6.3	22.0	360	AZ696-1AE-9D	AZ696-1CE-9D
12	8.4	29.5	660	AZ696-1AE-12D	AZ696-1CE-12D
18	12.6	44.0	1,500	AZ696-1AE-18D	AZ696-1CE-18D
24	16.8	54.0	2,200	AZ696-1AE-24D	AZ696-1CE-24D
48	33.6	102.0	8,000	AZ696-1AE-48D	AZ696-1CE-48D

* Substitute "1BE" in place of "1AE" for 1 Form B contact. Add Suffix "E" at the end of order number for sealed version. When suffix "E" is specified for Epoxy Seal, refer to AZ "Relay Technical Notes" on AZ website - Product Resources. Consult factory for other PCB process conditions that may apply.

INTERNATIONAL APPROVALS

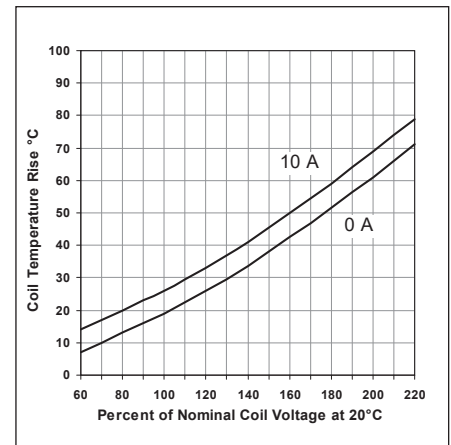
Germany	VDE 0435/09.72 at 8 Amps VDE 0631/12.83 at 8 Amps VDE 0700/1/2.81 at 8 Amps
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MECHANICAL DATA

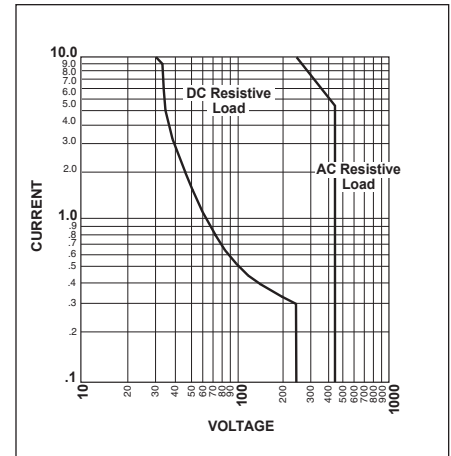


Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

Coil Temperature Rise



Maximum Switching Capacity



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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.