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
- Epoxy sealed version available
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1) EN 60335-1 (VDE 0700, part 1)
- UL, CUR file E44211
- VDE certificate 40025524



CONTACTS

Arrangement	SPDT (1 Form C), SPST (1 Form A, 1 Form B)					
Ratings	Resistive load:					
	Max. switched power: 300 W or 2500 VA Max. switched current: 10 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	See chart for UL contact ratings on page 3.					
VDE	See chart for VDE contact ratings on page 3.					
Material	Silver tin oxide [1], silver nickel [2], 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	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)

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

phone:

fax:

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 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 1000 Vrms between open contacts				
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH				
Insulation (according to DIN VDE 0110, IEC 60664-1)	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC				
Dropout	Greater than 10% of nominal coil voltage				
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 85°C (185°F)				
Vibration	Break: 0.031" (0.8 mm) DA at 10–55 Hz Make: 0.059" (1.5 mm) DA at 10–55 Hz				
Shock	Break Contact: 5 g Make Contact: 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				
Packing unit in pcs	20 per plastic tube / 1000 per carton box				

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RELAY ORDERING DATA

	COIL S	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-5D	AZ6962-1CE-5D	
6	4.2	14.0	164 ± 10%	AZ6962-1AE-6D	AZ6962-1CE-6D	
9	6.3	20.8	360 ± 10%	AZ6962-1AE-9D	AZ6962-1CE-9D	
12	8.4	27.2	620 ± 10%	AZ6962-1AE-12D	AZ6962-1CE-12D	
15	10.5	31.0	970 ± 10%	AZ6962-1AE-15D	AZ6962-1CE-15D	
18	12.6	39.4	1,295 ± 10%	AZ6962-1AE-18D	AZ6962-1CE-18D	
24	16.8	53.1	2,350 ± 10%	AZ6962-1AE-24D	AZ6962-1CE-24D	
48	33.6	98.0	8,000 ± 15%	AZ6962-1AE-48D	AZ6962-1CE-48D	
60	42.0	122.4	12,500 ± 15%	AZ6962-1AE-60D	AZ6962-1CE-60D	

* "1AE" or "1CE" denote silver tin oxide contacts.

Substitute "1BE" in place of "1AE" or "1CE for 1 Form B relay.

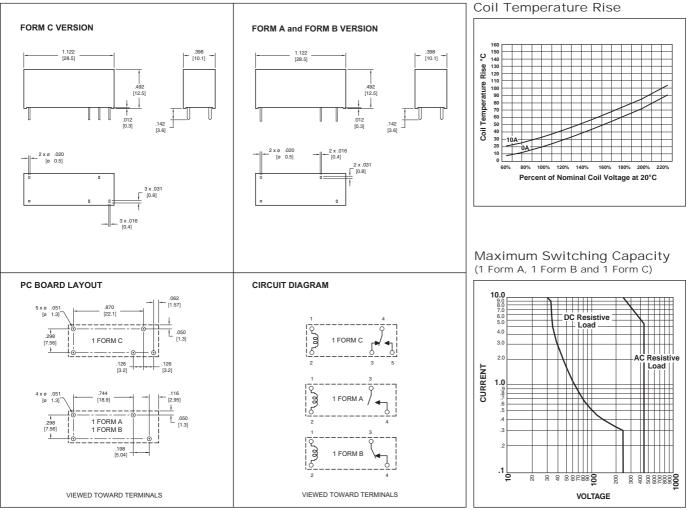
Substitute "1AB" or "1BB" or "1CB" in place of "1AE" or "1BE" or "1CE" for silver nickel contacts.

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.

Note: 15 VDC coil is not VDE approved!

MECHANICAL DATA



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

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UL/CUR FILE E44211 APPROVED CONTACT RATING

Load Type	Cycles	Voltage	1 Form A	1 Form B	1 Fo	rm C	Contact Material	Ambient Temperature
			(N.O.)	(N.C.)	(N.O.)	(N.C.)		
Resistive	100k	250 VAC	10 A	-	10 A	-	[1][2]	85°C
	30k	250 VAC	10 A	10 A	10 A	10 A	[1][2]	85°C
	30k	30 VDC	10 A	10 A	10 A	10 A	[1][2]	85°C
General Use	100k	250 VAC	4 A	-	4 A	-	[2]	110°C
	100k	30 VDC	4 A	-	4 A	-	[2]	110°C
	30k	250 VDC	10 A	10 A	10 A	10 A	[2]	70°C
MotorLoad	30k	240 VAC	1/2 HP	-	1/3 HP	-	[1][2]	85°C
	30k	120 VAC	1/3 HP	-	1/3 HP	-	[1]	85°C
Pilot Duty	-	30 VDC	1 A	1 A	1 A	1 A	[2]	85°C
Inductive	-	-	B300	B300	B300	B300	[1][2]	85°C
	-	-	R300	R300	R300	R300	[1][2]	85°C

VDE CERTIFICATE 40025524 APPROVED CONTACT RATING

Load Type	Cycles	Voltage	1 Form A (N.O.)	1 Form B (N.C.)	1 Form C		Contact	Ambient
					(N.O.)	(N.C.)	Material	Temperature
Resistive	100k	250 VAC	8 A	8 A	-	-	[1][2]	85°C
	100k	250 VAC	10 A *	-	-	-	[1]	70°C
	100k	250 VAC	-	-	8 A	8 A	[2]	85°C
	10k	250 VAC	-	-	-	8 A	[1]	85°C
	100k	250 VAC	-	-	8 A	-	[1]	85°C
	100k	250 VAC	-	-	10 A	-	[2]	85°C
Inductive	50k	250 VAC	10(4) A *	-	-	-	[1]	85°C
VDE 0631 Part 1	100k	250 VAC	-	2(2) A	-	-	[2]	85°C
	100k	250 VAC	-	-	2(2) A	2(2) A	[1]	85°C
	100k	250 VAC	-	-	8(4) A	-	[1]	85°C
	30k	250 VAC	-	-	-	6(4) A	[1]	85°C
Inductive AC-15	100k	250 VAC	On: 30 A cos phi 0.7	-	On: 30 A cos phi 0.7	-	[1]	85°C
	100k	250 VAC	Off: 3 A cos phi 0.4	-	Off: 3 A cos phi 0.4	-	[1]	85°C

* with open vent hole

[1] Silver tin oxide

[2] Silver nickel

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