

# AZ762

## 16 A SPDT MINIATURE POWER RELAY

**NEW !!!**  
**High inrush version 80 A !!!**

### FEATURES

- Dielectric strength 5000 Vrms
- 16 Amp switching
- High Inrush version (80 A) available
- AC and DC coils
- Isolation spacing greater than 10 mm
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1), EN 60335-1 (VDE 0700, part 1)
- UL, CUR file E44211
- VDE file 40006031



### CONTACTS

<b>Arrangement</b>	SPDT (1 Form C) SPST (1 Form A)
<b>Ratings</b>	Resistive load: Max. switched power: 480 W or 4432 VA Max. switched current: 16 A Max. switched voltage: 150 VDC* or 440 VAC  * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
<b>Rated Load UL, CUR</b>	16 A at 277 VAC resistive, 100k cycles [3] 16 A at 277 VAC resistive, 50k cycles [1] 1 HP at 250 VAC (1 Form A) [1] 1/2 HP at 125 VAC (1 Form A) [1] TV-5 at 125 VAC (1 Form A) [1] 16 A at 277 VAC resistive, 75k cycles [2] B300 Pilot Duty [2] R300 Pilot Duty [2]
<b>VDE</b>	16 A at 250 VAC resistive, [1] [2] and [3] 9 A at 250 VAC, inductive (Form A) [1] [2] and [3]
<b>Material</b>	Silver cadmium oxide [1] or silver tin oxide [2] or silver nickel [3]. Gold plating available
<b>Resistance</b>	< 50 milliohms initially

### COIL

<b>Power</b>	
<b>At Pickup Voltage (typical)</b>	200 mW (DC coil) .422 VA (AC coil)
<b>Max. Continuous Dissipation</b>	1.7 W at 20°C (68°F) ambient 1.7 VA at 20°C (68°F) ambient
<b>Temperature Rise</b>	26°C (47°F) at nominal coil voltage
<b>Max. Temperature</b>	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

<b>Life Expectancy Mechanical Electrical</b>	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at 16 A 250 VAC Res.
<b>Operate Time (typical)</b>	7 ms at nominal coil voltage DC coils 10 ms at nominal coil voltage AC coils
<b>Release Time (typical)</b>	3 ms at nominal coil voltage (with no coil suppression)
<b>Dielectric Strength (at sea level for 1 min.)</b>	5000 Vrms coil to contact 1000 Vrms between open contacts
<b>Insulation Resistance</b>	1000 megohms min. at 20°C 500 VDC 50% RH
<b>Insulation (according to DIN VDE 0110, IEC 60664-1)</b>	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC
<b>Dropout DC coils AC coils</b>	Greater than 10% of nominal coil voltage Greater than 15% of nominal coil voltage
<b>Ambient Temperature Operating Storage</b>	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) DC coils -40°C (-40°F) to 70°C (158°F) AC coils -40°C (-40°F) to 105°C (221°F)
<b>Vibration</b>	0.062" (1.5 mm) DA at 10–55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (518°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 Seconds
<b>Weight</b>	14 grams
<b>Packing unit in pcs</b>	20 per plastic tube / 1000 per carton box

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## RELAY ORDERING DATA

COIL SPECIFICATIONS – DC COIL				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	1 Form A	1 Form C
5	3.5	10.2	62	AZ762-1A-5D	AZ762-1C-5D
6	4.2	12.3	90	AZ762-1A-6D	AZ762-1C-6D
9	6.3	18.3	200	AZ762-1A-9D	AZ762-1C-9D
12	8.4	24.7	360	AZ762-1A-12D	AZ762-1C-12D
18	12.6	37.0	810	AZ762-1A-18D	AZ762-1C-18D
24	16.8	49.4	1,440	AZ762-1A-24D	AZ762-1C-24D
48	33.6	98.0	5,760	AZ762-1A-48D	AZ762-1C-48D
60	42.0	112.9	7,500	AZ762-1A-60D	AZ762-1C-60D
110	77.0	206.9	25,200	AZ762-1A-110D	AZ762-1C-110D

COIL SPECIFICATIONS - AC COIL					ORDER NUMBER*	
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA $\pm 10\%$	Coil Resistance Ohm $\pm 15\%$	1 Form A	1 Form C
24	18.0	31.2	31.6	350	AZ762-1A-24AF	AZ762-1C-24AF
115	86.3	149.5	6.6	8,100	AZ762-1A-115AF	AZ762-1C-115AF
230	172.5	299.0	3.2	32,500	AZ762-1A-230AF	AZ762-1C-230AF

\* "1A" or "1C" denote silver cadmium oxide contacts.

Add suffix "E" to "1A" or "1C" for silver tin oxide contacts.

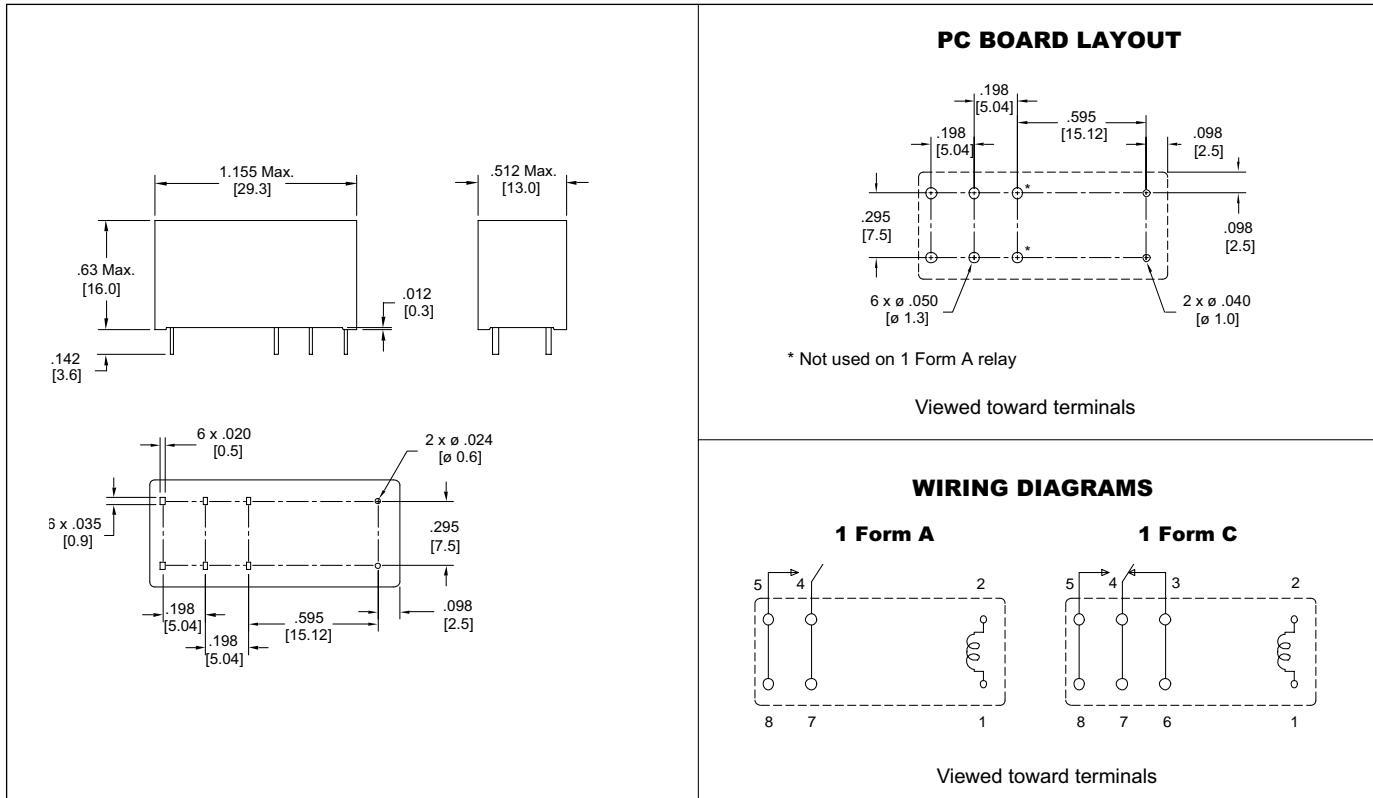
Add suffix "B" to "1A" or "1C" for silver nickel contacts.

Add suffix "E" at the end of order number (DC coils) or before "F" (AC coils) for sealed version.

Add suffix "A" at the end of order number (DC coils) or before "F" (AC coils) for gold plated contacts.

Add suffix "I" at the end of part number for high inrush version 80 A (contact form "1AE" only, DC coils only, no gold plating).

## MECHANICAL DATA



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

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