# AZ167\_\_\_

### MINIATURE POWER RELAY

### FEATURES

- Bottom panel mount
- SPDT through 4PDT arrangement
- High switching capacity
- AC and DC coils
- CE marked
- UL, CUR file E43203
- TÜV pending

### **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 2 x 10 <sup>7</sup> operations See UL/CUR ratings on page 2		
Operate Time	25 msec max. at nominal coil voltage		
Release Time	25 msec at nominal coil voltage (without suppression)		
Dielectric Strength (at sea level for 1 min.)	1500 Vrms coil to contact 1000 Vrms contact to contact 1000 Vrms between contact sets		
Insulation Resistance	100 megohms min. at 20°C, 500 VDC, 50% RH		
Dropout	DC: > 10% of nominal coil voltage AC: > 30% of nominal coil voltage		
Ambient Temperature Operating Storage	-55°C (-67°F) to 70°C (158°F) -55°C (-67°F) to 105°C (221°F)		
Vibration	0.062" DA at 10–55 Hz		
Shock	20g		
Enclosure	Polycarbonate		
Terminals	Plug-in		
Max. Solder Temp.	250°C (482°F)		
Max. Solder Time	5 seconds		
Weight	37 grams		

#### CONTACTS

Arrangement	SPDT (1 Form C) DPDT (2 Form C) 3PDT (3 Form C) 4PDT (4 Form C)		
Ratings	See chart on page 2		
UL, CUR	See chart on page 2		
Minimum Load	5 VDC, 0.1 A		
Material	-1CT contact -2C and 2CT contact -3C contact -4C contact	Silver cadmium oxide Silver cerium Silver cerium Silver cerium	
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)		

### COIL

Power	DC: 576 mW, 6 to 48 VDC
At Pickup Voltage	704 mW, 110 VDC
(typical)	AC: .768 VA
Max. Continuous	DC: 1.2 W (110 V : 1.5 W) at 20°C (68°F)
Dissipation	AC: 1.7 VA at 20°C (68°F)
Temperature	105°C (221°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.

## AMERICAN ZETTLER, INC.

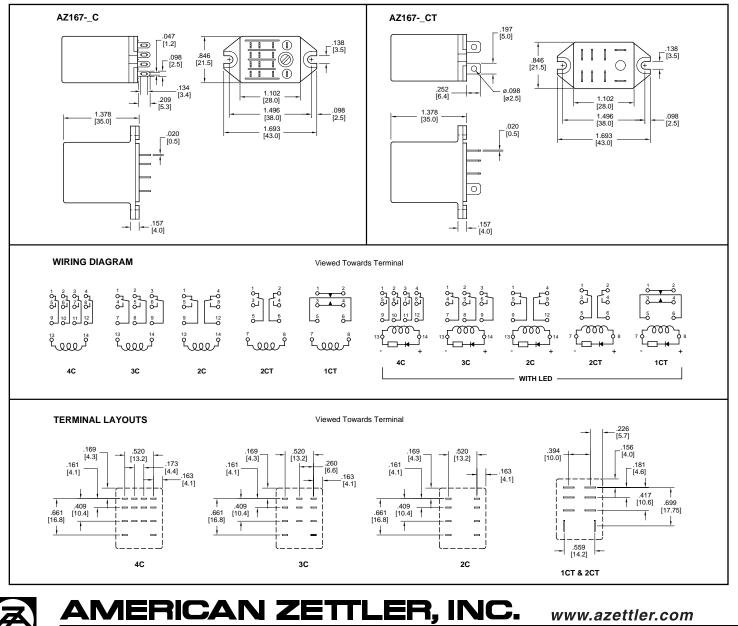
www.azettler.com

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### **CONTACT RATINGS**

RatingsMax. Sw Max. Sw Max. Sw DPDT H Max. Sw Max. Sw Max. Sw Max. Sw DPDT Si Max. Sw Max. Sw	eavy duty, resistive load: itched Power: 450 W, 3750 VA itched Current: 15 A itched Voltage: 30 VDC, 250 VAC eavy duty, resistive load: itched Power: 300 W, 2500 VA itched Current: 10 A itched Voltage: 30 VDC, 250 VAC tandard duty, resistive load: itched Power: 210 W, 1750 VA itched Current: 7 A itched Voltage: 30 VDC, 250 VAC PDT, Standard duty, resistive load: itched Power: 150 W, 1250 VA itched Current: 5 A itched Voltage: 30 VDC, 250 VAC	UL/CUR Ratings	SPDT Heavy duty:   15 A, 250 VAC 100k, Resistive   15 A, 30 VDC, 100k N.O., 30k N.C., Resistive   DPDT Heavy duty:   10 A, 250 VAC, 100k, General use   10 A, 30 VDC, 100k, Resistive   1/3 HP, 120/240 VAC, 100k Motor load   DPDT, Standard duty:   7A, 250 VAC, 100k, Resistive   3A, 240 VAC, 100k, Resistive   3A, 240 VAC/30 VDC, 100k, General use   3PDT, 4PDT, Standard duty:   5A, 250 VAC, 100k, Resistive   5A, 250 VAC, 100k, Resistive   5A, 240 VAC/30 VDC, 100k, General use   3A, 240 VAC/30 VDC, 100k, Resistive   5A, 250 VAC, 100k, Resistive   5A, 250 VAC, 100k, Resistive   5A, 240 VAC/30 VDC, 100k, Resistive   5A, 240 VAC/30 VDC, 100k, General use
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### **MECHANICAL DATA**



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## AZ167\_\_\_\_\_

### **RELAY ORDERING DATA**

STANDARD RELAYS: DC Coil						
COIL SPECIFICATIONS						
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance	ORDER NUMBER*	
5	4.0	5.5	181.0	27.5 <b>± 10%</b>	AZ167–2C–5D	
6	4.8	6.6	150.0	40.0 <b>± 10%</b>	AZ167–2C–6D	
12	9.6	13.2	75.0	160 ± 10%	AZ167-2C-12D	
24	19.2	26.4	36.9	650 ± 10%	AZ167–2C–24D	
48	38.4	52.8	18.5	2600 ± 15%	AZ167–2C–48D	
110	88.0	121.0	10.0	11,000 <b>± 15%</b>	AZ167-2C-110D	

### STANDARD RELAYS: AC Coil (50/60 Hz)

COIL SPECIFICATIONS					
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA ± 10%	Coil Resistance	ORDER NUMBER*
6	4.8	7.1	200.0	11.5 <b>± 10%</b>	AZ167–2C–6A
12	9.6	14.3	100.0	46.0 <b>± 10%</b>	AZ167–2C–12A
24	19.2	28.6	50.0	184 <b>± 10%</b>	AZ167–2C–24A
48	38.4	57.1	25.0	735 ± 10%	AZ167–2C–48A
120	96.0	143.0	10.0	4,550 <b>± 10%</b>	AZ167-2C-120A
220	176.0	261.0	5.5	14,400 <b>± 15%</b>	AZ167–2C–220A
240	192.0	288.0	5.0	22,000 <b>± 15%</b>	AZ167–2C–240A

\* For 3PDT or 4PDT substitute "-3C" or "-4C" for "-2C". For LED add "1" to the end of p/n.

### **RELAY ORDERING DATA**

HEAVY DUTY RELAYS: DC Coil					
COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance	ORDER NUMBER*
5	4.0	5.5	181.0	27.5 <b>± 10%</b>	AZ167–1CT–5D
6	4.8	6.6	150.0	40.0 <b>± 10%</b>	AZ167–1CT–6D
12	9.6	13.2	75.0	160 ± 10%	AZ167–1CT–12D
24	19.2	26.4	36.9	650 ± 10%	AZ167–1CT–24D
48	38.4	52.8	18.5	2600 ± 15%	AZ167–1CT–48D
110	88.0	121.0	10.0	11,000 <b>± 15%</b>	AZ167–1CT–110D

COIL SPECIFICATIONS					
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Current mA ± 10%	Coil Resistance	ORDER NUMBER*
6	4.8	7.1	200.0	11.5 <b>± 10%</b>	AZ167–1CT–6A
12	9.6	14.3	100.0	46.0 <b>± 10%</b>	AZ167–1CT–12A
24	19.2	28.6	50.0	184 <b>± 10%</b>	AZ167–1CT–24A
48	38.4	57.1	25.0	735 <b>± 10%</b>	AZ167–1CT–48A
120	96.0	143.0	10.0	4,550 <b>± 10%</b>	AZ167–1CT–120A
220	176.0	261.0	5.5	14,400 <b>± 15%</b>	AZ167–1CT–220A
240	192.0	288.0	5.0	22,000 ± 15%	AZ167–1CT–240A

\* For DPDT substitute "-2CT" for "-1CT". For LED add "1" to the end of p/n.



