# **AZ**164\_

### **MINIATURE POWER RELAY**

### **FEATURES**

- PC Terminals
- DPDT through 4PDT arrangement
- High switching capacity
- AC and DC coils
- Push To Test lever available on some models
- CE marked
- UL, CUR file E43203
- TÜV pending



### **CONTACTS**

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

### COIL

Power	
At Pickup Voltage (typical)	DC: 576mW, 6 to 48VDC 704mW, 110VDC AC: 0.768VA
Max. Continuous Dissipation	DC: 1.2W (110V : 1.5W) at 20°C (68°F) AC: 1.7VA 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.

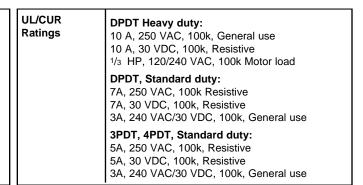
### **GENERAL DATA**

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 500VDC, 20°C, 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	PC			
Max. Solder Temp.	250°C (482°F)			
Max. Solder Time	5 seconds			
Weight	37 grams			

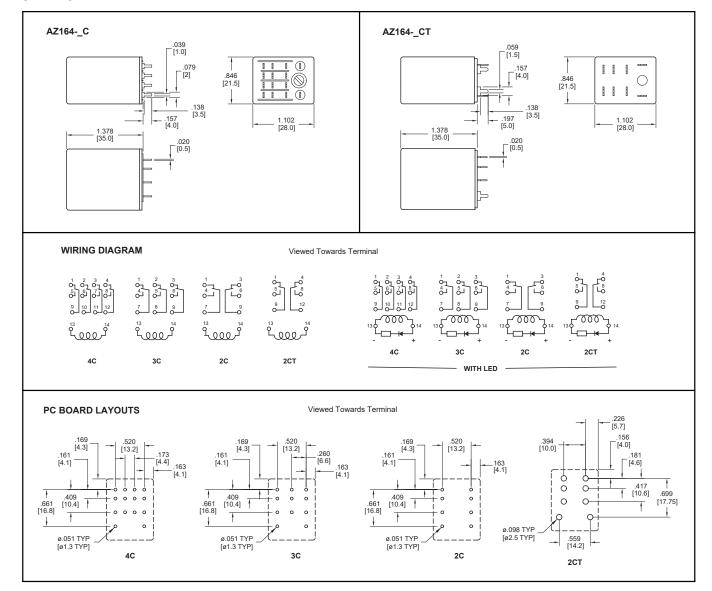
## **AZ164**

### **CONTACT RATINGS**

Maximum Ratings	DPDT Heavy duty, resistive load: Max. Switched Power: 300 W, 2500 VA Max. Switched Current: 10 A Max. Switched Voltage: 30 VDC, 250 VAC
	DPDT Standard duty, resistive load: Max. Switched Power: 210 W, 1750 VA Max. Switched Current: 7 A Max. Switched Voltage: 30 VDC, 250 VAC
	3PDT, 4PDT, Standard duty, resistive load: Max. Switched Power: 150 W, 1250 VA Max. Switched Current: 5 A Max. Switched Voltage: 30 VDC, 250 VAC



### **MECHANICAL DATA**



### AMERICAN ZETTLER, INC.

www.azettler.com

### **RELAY ORDERING DATA**

STANDARD RELAYS: DC Coil							
COIL SPECIFICATIONS							
Nominal Coil VDC							
5	4.0	5.5	181.0	27.5 <b>± 10</b> %	AZ164-2C-5D		
6	4.8	6.6	150.0	40.0 <b>± 10%</b>	AZ164-2C-6D		
12	9.6	13.2	75.0	160 <b>± 10</b> %	AZ164-2C-12D		
24	19.2	26.4	36.9	650 <b>± 10</b> %	AZ164-2C-24D		
48	38.4	52.8	18.5	2600 <b>± 15%</b>	AZ164-2C-48D		
110	88.0	121.0	10.0	11,000 <b>± 15%</b>	AZ164-2C-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> %	AZ164-2C-6A
12	9.6	14.3	100.0	46.0 <b>± 10%</b>	AZ164-2C-12A
24	19.2	28.6	50.0	184 <b>± 10</b> %	AZ164-2C-24A
48	38.4	57.1	25.0	735 <b>± 10%</b>	AZ164-2C-48A
120	96.0	143.0	10.0	4,550 <b>± 10%</b>	AZ164-2C-120A
220	176.0	261.0	5.5	14,400 <b>± 15%</b>	AZ164-2C-220A
240	192.0	288.0	5.0	22,000 <b>± 15%</b>	AZ164-2C-240A

<sup>\*</sup> For 3PDT or 4PDT substitute "-3C" or "-4C" for "-2C". For LED add "1" to the end of p/n. "-2C" and "-4C" versions are available with a lockable "push to test" lever. Add suffix "P" to part number for "Push to Test" lever.

### **RELAY ORDERING DATA**

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> %	AZ164-2CT-5D
6	4.8	6.6	150.0	40.0 <b>± 10</b> %	AZ164-2CT-6D
12	9.6	13.2	75.0	160 <b>± 10</b> %	AZ164-2CT-12D
24	19.2	26.4	36.9	650 <b>± 10</b> %	AZ164-2CT-24D
48	38.4	52.8	18.5	2600 ± <b>15</b> %	AZ164-2CT-48D
110	88.0	121.0	10.0	11,000 ± <b>15</b> %	AZ164-2CT-110D

HEAVY DUTY 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> %	AZ164-2CT-6A
12	9.6	14.3	100.0	46.0 <b>± 10%</b>	AZ164-2CT-12A
24	19.2	28.6	50.0	184 <b>± 10</b> %	AZ164-2CT-24A
48	38.4	57.1	25.0	735 <b>± 10</b> %	AZ164-2CT-48A
120	96.0	143.0	10.0	4,550 <b>± 10%</b>	AZ164-2CT-120A
220	176.0	261.0	5.5	14,400 <b>± 15</b> %	AZ164-2CT-220A
240	192.0	288.0	5.0	22,000 <b>± 15%</b>	AZ164-2CT-240A

<sup>\*</sup> For LED add "1" to the end of p/n.

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