AZ164_

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

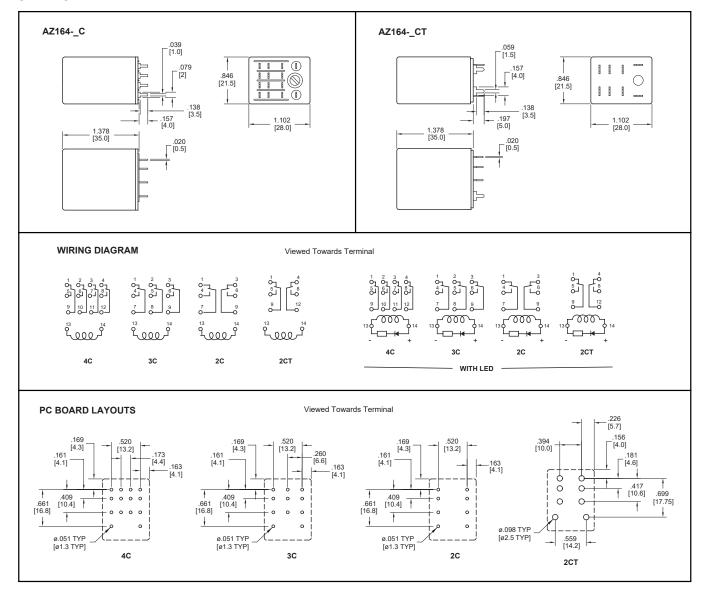
Life Expectancy Mechanical Electrical	Minimum operations 2 x 10 ⁷ operations See UL/CUR ratings on page 2			
Operate Time	25 msec max. at nominal coil voltage			
Release Time	25 msec at nominal coil voltage (without suppression)			
Dielectric Strength (at sea level for 1 min.)	1500 Vrms coil to contact 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			

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

UL/CUR Ratings	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 7A, 30 VDC, 100k, Resistive 3A, 240 VAC/30 VDC, 100k, General use
	3PDT, 4PDT, Standard duty: 5A, 250 VAC, 100k, Resistive 5A, 30 VDC, 100k, Resistive 3A, 240 VAC/30 VDC, 100k, General use

MECHANICAL DATA



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RELAY ORDERING DATA

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

^{*} 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 ± 10 %	AZ164-2CT-5D
6	4.8	6.6	150.0	40.0 ± 10 %	AZ164-2CT-6D
12	9.6	13.2	75.0	160 ± 10 %	AZ164-2CT-12D
24	19.2	26.4	36.9	650 ± 10 %	AZ164-2CT-24D
48	38.4	52.8	18.5	2600 ± 15 %	AZ164-2CT-48D
110	88.0	121.0	10.0	11,000 ± 15 %	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 ± 10 %	AZ164-2CT-6A
12	9.6	14.3	100.0	46.0 ± 10%	AZ164-2CT-12A
24	19.2	28.6	50.0	184 ± 10 %	AZ164-2CT-24A
48	38.4	57.1	25.0	735 ± 10 %	AZ164-2CT-48A
120	96.0	143.0	10.0	4,550 ± 10%	AZ164-2CT-120A
220	176.0	261.0	5.5	14,400 ± 15%	AZ164-2CT-220A
240	192.0	288.0	5.0	22,000 ± 15%	AZ164-2CT-240A

^{*} For LED add "1" to the end of p/n.

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