AZ1651___

MINIATURE POWER RELAY

FEATURES

- Plug in/Solder terminals
- SPDT through 4PDT arrangement
- High switching capacity
- AC and DC coils
- UL, CUR file E43203
- TÜV R50359828



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			
TUV	5A@ 220Vac/28Vdc, 100K 70°C (Standard Duty only)			
Material	Silver cadmium oxide			
Resistance	< 50 milliohms initially (24V, 1A voltage drop method)			

COIL

Power	
At Pickup Voltage (typical)	DC: 576 mW, 6 to 48 VDC 704 mW, 110 VDC AC: .768 VA
Max. Continuous Dissipation	DC: 1.2 W (110 V : 1.5 W) at 20°C (68°F) 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.
- ${\it 3. \ Specifications \ subject \ to \ change \ without \ notice.}$

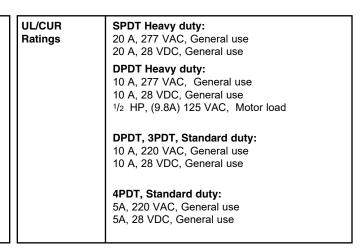
GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 2 x 10 ⁷ operations 1 x 10 ⁵ operations at rated load		
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 500 VDC, 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	20 g		
Enclosure	Polycarbonate		
Terminals	PC/Plug-in		
Max. Solder Temp.	250°C (482°F)		
Max. Solder Time	5 seconds		
Weight	37 grams		

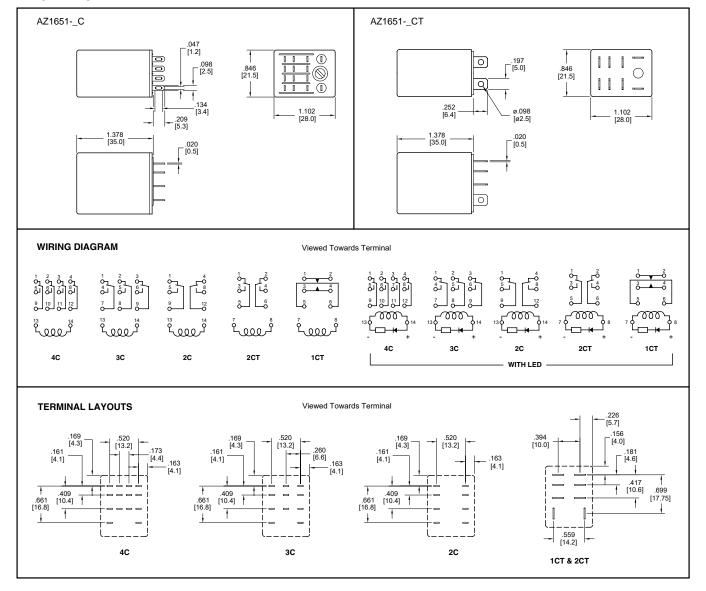
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CONTACT RATINGS

Maximum Ratings	SPDT Heavy duty, resistive load: Max. Switched Power: 560 W, 5540 VA Max. Switched Current: 20 A Max. Switched Voltage: 28 VDC, 277 VAC
	DPDT Heavy duty, resistive load: Max. Switched Power: 560 W, 5540 VA Max. Switched Current: 10 A Max. Switched Voltage: 28 VDC, 277 VAC
	DPDT, 3PDT Standard duty, resistive load: Max. Switched Power: 280 W, 2500 VA Max. Switched Current: 10 A Max. Switched Voltage: 28 VDC, 220 VAC
	4PDT, Standard duty, resistive load: Max. Switched Power: 280 W, 2500 VA Max. Switched Current: 5 A Max. Switched Voltage: 28 VDC, 220 VAC



MECHANICAL DATA



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02/13/17

RELAY ORDERING DATA

STANDARD RELAYS: DC Coil						
	COIL SPEC	IFICATIONS				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance	ORDER NUMBER*	
6	4.8	6.6	150.0	40.0 ± 10%	AZ1651-2C-6D	
12	9.6	13.2	75.0	160 ± 10 %	AZ1651-2C-12D	
24	19.2	26.4	36.9	650 ± 10%	AZ1651-2C-24D	
48	38.4	52.8	18.5	2600 ± 15 %	AZ1651-2C-48D	
110	88.0	121.0	10.0	11,000 ± 15 %	AZ1651-2C-110D	

STANDARD RELAYS: AC Coil (50/60 Hz)						
	COIL SPEC	IFICATIONS				
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%	AZ1651-2C-6A	
12	9.6	14.3	100.0	46.0 ± 10%	AZ1651-2C-12A	
24	19.2	28.6	50.0	184 ± 10%	AZ1651-2C-24A	
48	38.4	57.1	25.0	735 ± 10%	AZ1651-2C-48A	
120	96.0	143.0	10.0	4,550 ± 10%	AZ1651-2C-120A	
220	176.0	261.0	5.5	14,400 ± 15 %	AZ1651-2C-220A	

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

RELAY ORDERING DATA

IEAVY DUTY RELAYS: DC Coil						
	COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA ± 10%	Coil Resistance	ORDER NUMBER*	
6	4.8	6.6	150.0	40.0 ± 10%	AZ1651-1CT-6D	
12	9.6	13.2	75.0	160 ± 10 %	AZ1651-1CT-12D	
24	19.2	26.4	36.9	650 ± 10 %	AZ1651-1CT-24D	
48	38.4	52.8	18.5	2600 ± 15 %	AZ1651-1CT-48D	
110	88.0	121.0	10.0	11,000 ± 15 %	AZ1651-1CT-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 %	AZ1651-1CT-6A
12	9.6	14.3	100.0	46.0 ± 10%	AZ1651-1CT-12A
24	19.2	28.6	50.0	184 ± 10 %	AZ1651-1CT-24A
48	38.4	57.1	25.0	735 ± 10%	AZ1651-1CT-48A
120	96.0	143.0	10.0	4,550 ± 10%	AZ1651-1CT-120A
220	176.0	261.0	5.5	14,400 ± 15 %	AZ1651-1CT-220A
240	192.0	288.0	5.0	22,000 ± 15%	AZ1651-1CT-240A

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

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