AZ5

SUBMINIATURE PC BOARD RELAY

FEATURES

- Subminiature size for high density packaging
- Coil sensitivity to 100mW
- Extremely low cost
- · Coils to 24VDC
- · Epoxy sealed for automatic wave soldering
- 1 Amp and 2 Amp contacts
- · Life expectancy to 10 million operations
- Meets FCC Part 68.302 1500V lightning surge
- Meets FCC Part 68.304 1000V dielectric
- UL file E43203; CSA file 74120



Arrangement	SPDT (1 Form C) Welded crossbar construction			
Ratings Light Duty	Resistive load: Max. switched power: 30W or 60VA Max. switched current: 1A Max. switched voltage: 150VDC or 300VAC UL Rating: 1A at 30VDC 0.5A at 120VAC			
Heavy Duty	Max. switched power: 60W or 120VA Max. switched current: 2A Max. switched voltage: 150VDC or 300VAC UL Rating: 2A at 30VDC 1A at 120VAC			
Material Light Duty Heavy Duty	Silver palladium, gold clad Silver nickel			
Resistance	< 50 milliohms initially			

COIL

Power At Pickup Voltage (typical)	Standard coil: 220mW Sensitive coil: 100mW			
Max. Continuous Dissipation	1.1W at 20°C (68°F) ambient 0.8W at 40°C (104°F) ambient			
Temperature Rise	Standard: 40°C (72°F) at nominal coil voltage Sensitive: 22°C (40°F) at nominal voltage			
Temperature	Max. 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. Other coil resistances and sensitivities available upon request.
- 4. Specifications subject to change without notice.



GENERAL DATA

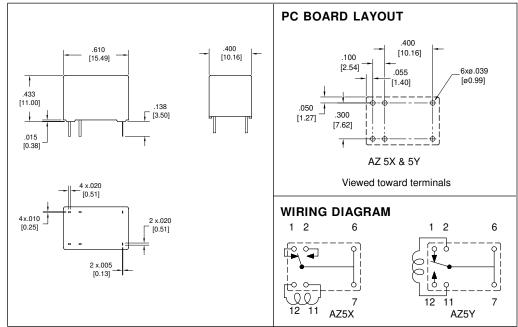
Life Expectancy Mechanical Electrical Operate Time (typical)	Minimum operations 10 million operations Standard Duty: 5 x 10 ⁵ at 1A, 30VDC Res. 4 x 10 ⁵ at 0.5A, 120VAC Res. Heavy Duty: 2 x 10 ⁵ at 2A, 30VDC Res. 2 x 10 ⁵ at 1A, 120VAC Res. Standard: 3ms at nominal coil voltage			
Dalaca Time (terrical)	Sensitive: 5ms at nominal coil voltage			
Release Time (typical)	1ms at nominal coil voltage (with no coil suppression)			
Capacitance	Coil to contact: 3.0pF Contact to contact: 3.0pF			
Bounce (typical)	At 10mA contact current 2ms at operate 8ms at release			
Dielectric Strength (at sea level for 1 min.)	1250Vrms coil to contact 500Vrms between open contacts Meets FCC Part 68.302 1500V lightning surge Meets FCC Part 68.304 1000V dielectric			
Insulation Resistance	100 megohms min. at 20°C, 500VDC, 50% RH			
Dropout	Greater than 10% of nominal coil voltage			
Ambient Temperature Operating Storage	At nominal coil voltage Standard: -25°C (-13°F) to 60°C (140°F) Sensitive: -25°C (-13°F) to 75°C (167°F) Both: -25°C (-13°F) to 105°C (221°F)			
Vibration	0.062" DA at 10-55 Hz			
Shock	Standard: 10g Sensitive: 6g			
Enclosure	P.B.T. polyester			
Terminals	Tinned copper alloy			
Max. Solder Temp.	270°C (518°F)			
Max. Solder Time	5 seconds			
Max. Immersion Time	30 seconds			
Weight	3.5 grams			

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RELAY ORDERING DATA

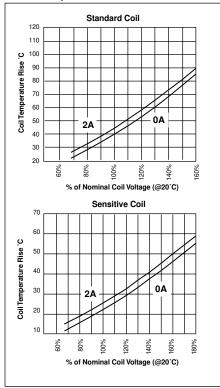
STANDARD RELAYS: Light Duty Type								
	COIL SPECI	ORDER NUMBER						
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	AZ5X Footprint	AZ5Y Footprint			
5	6.8	56	3.5	AZ5X-1C-5DE	AZ5Y-1C-5DE			
6	8.1	80	4.2	AZ5X-1C-6DE	AZ5Y-1C-6DE			
9	12.2	180	6.3	AZ5X-1C-9DE	AZ5Y-1C-9DE			
12	16.2	320	8.4	AZ5X-1C-12DE	AZ5Y-1C-12DE			
24	32.4	1,280	16.8	AZ5X-1C-24DE	AZ5Y-1C-24DE			
SENSITIVE RELAYS: Light Duty Type								
COIL SPECIFICATIONS				ORDER NUMBER				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	AZ5X Footprint	AZ5Y Footprint			
5	10.0	120	3.5	AZ5X-1C-5DSE	AZ5Y-1C-5DSE			
6	12.0	180	4.2	AZ5X-1C-6DSE	AZ5Y-1C-6DSE			
9	18.0	405	6.3	AZ5X-1C-9DSE	AZ5Y-1C-9DSE			
12	24.0	700	8.4	AZ5X-1C-12DSE	AZ5Y-1C-12DSE			
24	48.0	2,800	16.8	AZ5X-1C-24DSE	AZ5Y-1C-24DSE			
STANDARD RELAYS: Heavy Duty Type								
COIL SPECIFICATIONS				ORDER NUMBER				
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	AZ5X Footprint	AZ5Y Footprint			
5	6.8	56	3.5	AZ5X-1CH-5DE	AZ5Y-1CH-5DE			
6	8.1	80	4.2	AZ5X-1CH-6DE	AZ5Y-1CH-6DE			
9	12.2	180	6.3	AZ5X-1CH-9DE	AZ5Y-1CH-9DE			
12	16.2	320	8.4	AZ5X-1CH-12DE	AZ5Y-1CH-12DE			
24	32.4	1,280	16.8	AZ5X-1CH-24DE	AZ5Y-1CH-24DE			

MECHANICAL DATA

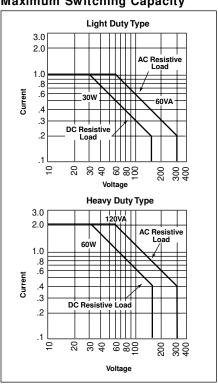


Dimensions in inches with metric equivalents in parentheses. Tolerance: \pm .010"

Coil Temperature Rise



Maximum Switching Capacity



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