AZ951/AZ952

SUBMINIATURE POWER RELAY

FEATURES

- · Subminiature size for high density packaging
- Coil sensitivity to 116 mW
- Extremely low cost
- Coils to 24 VDC
- Epoxy sealed for automatic wave soldering
- 1 Amp, 3 Amp & 5 Amp contacts
- · Life expectancy to 10 million operations
- UL, CUR file E43203

CONTACTS

Arrangement	SPDT (1 Form C)				
Ratings	Resistive load:				
Light Duty	Max. switched power: 30 W or 125 VA Max. switched current: 1 A Max. switched voltage: 150 VDC or 300 VAC UL Rating: 1 A at 30 VDC 1 A at 125 VAC				
Medium Duty	Max. switched power: 90 W or 375 VA Max. switched current: 3 A Max. switched voltage: 150 VDC or 300 VAC UL Rating: 3 A at 30 VDC 3 A at 125 VAC				
Heavy Duty	Max. switched power: 150 W or 625 VA Max. switched current: 5 A Max. switched voltage: 150 VDC or 300 VAC UL Rating: 5 A at 30 VDC 5 A at 125 VAC 270 VA, 120 VAC Pilot Duty N.O. 30k cycles, N.C. 6k cycles				
Material	Light and Medium Duty: Silver, gold plated Heavy Duty: Silver nickel gold plated				
Resistance	< 100 milliohms initially				

COIL

Power	
At Pickup Voltage (typical)	Standard Coil: 253 mW Sensitive coil: 116 mW
Max Continuous Dissipation	0.8 W at 20°C (68°F) ambient 0.6 W at 40°C (104°F) ambient
Temperature Rise	At nominal coil voltage: Standard: 54°C (97°F) Sensitive: 30°C (54°F)
Max. Temperature	105°C (221°F)



GENERAL DATA

Life Expectancy	Minimum operations		
Mechanical	1 x 10 ⁷		
Electrical	1 x 10⁵ at 3 A 120 VAC Res.		
Operate Time (typical)	5 ms at nominal coil voltage		
Release Time (typical)	1 ms at nominal coil voltage (with no coil suppressions)		
Dielectric Strength	1250 Vrms coil to contact		
(at sea level for 1 min.)	750 Vrms between open contacts		
Insulation Resistance	100 megohms min. at 20°C, 500 VDC		
Dropout	Greater than 10% of nominal coil voltage		
Ambient Temperature	At nominal coil voltage		
Operating	Standard: -25°C (-13°F) to 55°C (131°F)		
	Sensitive: -25°C (-13°F) to 75°C (167°F)		
Storage	Both: -25°C (-13°F) to 105°C (221°F)		
Vibration	0.062" DA at 10–55Hz		
Shock	15 g		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy		
Max. Solder Temp.	270°C (518°F)		
Max. Solder Time	5 seconds		
Max. Solvent Temp.	80°C (176°F)		
Max. Immersion Time	30 seconds		
Weight	3.5 grams		

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.

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4. Specifications subject to change without notice.



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RELAY ORDERING DATA

STANDARD RELAYS — Light Duty Type						
COIL SPECIFICATIONS						
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC			
5	6.7	56	3.75	AZ951-1C-5DE	AZ952-1C-5DE	
6	8.0	80	4.50	AZ951-1C-6DE	AZ952-1C-6DE	
12	16.0	320	9.00	AZ951-1C-12DE	AZ952-1C-12DE	
24	32.0	1280	18.00	AZ951-1C-24DE	AZ952-1C-24DE	

SENSITIVE RELAYS — Light Duty Type						
	COIL SPECIFICATIONS					
Nominal Coil Max. Continuous Coil Resistance Must Operate VDC VDC ±10% VDC				ORDER	NUMBER	
5	8.5	120	3.75	AZ951–1C–5DSE	AZ952–1C–5DSE	
6	10.4	180	4.50	AZ951-1C-6DSE	AZ952–1C–6DSE	
9	15.3	400	6.75	AZ951–1C–9DSE	AZ952–1C–9DSE	
12	20.5	700	9.00	AZ951-1C-12DSE	AZ952-1C-12DSE	
24	41.0	2800	18.00	AZ951–1C–24DSE	AZ952–1C–24DSE	

STANDARD RELAYS — Medium Duty Type						
COIL SPECIFICATIONS						
Nominal Coil VDC			ORDER	NUMBER		
5	6.7	56	3.75	AZ951–1CM–5DE	AZ952–1CM–5DE	
6	8.0	80	4.50	AZ951-1CM-6DE	AZ952–1CM–6DE	
12	16.0	320	9.00	AZ951-1CM-12DE	AZ952-1CM-12DE	
24	32.0	1280	18.00	AZ951-1CM-24DE	AZ952-1CM-24DE	

SENSITIVE RELAYS — Medium Duty Type						
COIL SPECIFICATIONS						
Nominal Coil VDC				ORDER N	NUMBER	
5	8.5	120	3.75	AZ951–1CM–5DSE	AZ952–1CM–5DSE	
6	10.4	180	4.50	AZ951-1CM-6DSE	AZ952–1CM–6DSE	
9	15.3	400	6.75	AZ951-1CM-9DSE	AZ952–1CM–9DSE	
12	20.5	700	9.00	AZ951–1CM–12DSE	AZ952–1CM–12DSE	
24	41.0	2800	18.00	AZ951-1CM-24DSE	AZ952–1CM–24DSE	

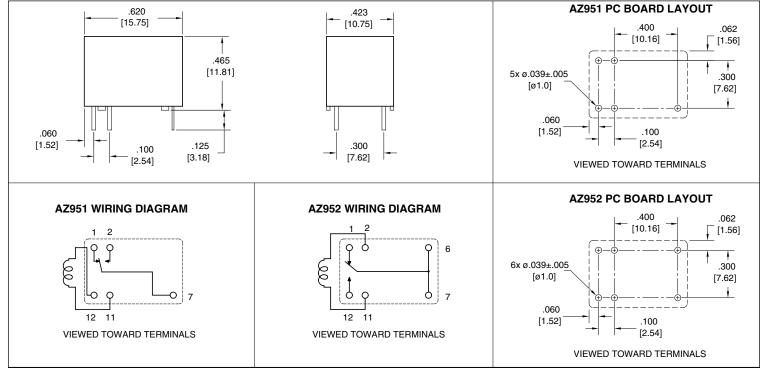
STANDARD RELAYS — Heavy Duty Type						
	COIL SPEC					
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	e Must Operate ORDER NUMBER VDC			
5	6.7	56	3.75	AZ951–1CH–5DE	AZ952–1CH–5DE	
6	8.0	80	4.50	AZ951-1CH-6DE	AZ952-1CH-6DE	
12	16.0	320	9.00	AZ951-1CH-12DE	AZ952-1CH-12DE	
24	32.0	1280	18.00	AZ951-1CH-24DE	AZ952-1CH-24DE	



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MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ±0.010"

