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: 60 VDC or 220 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: 60 VDC or 220 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: 60 VDC or 220 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 Mechanical Electrical	Minimum operations 1 x 10^7 1 x 10^5 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 (at sea level for 1 min.)	1250 Vrms coil to contact 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 Operating	At nominal coil voltage 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.
- 4. Specifications subject to change without notice.

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RELAY ORDERING DATA

STANDARD RELAYS — Light Duty Type						
COIL SPECIFICATIONS						
Nominal Coil VDCMax. Continuous VDCCoil Resistance ±10%Must Operate VDC			ORDER	NUMBER		
3	3.3	20	2.25	AZ951-1C-3DE	AZ952-1C-3DE	
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 RELAY						
	COIL SPECIFICATIONS					
Nominal Coil VDC				ORDER NUMBER		
3	3.3	45	2.25	AZ951-1C-3DSE	AZ952–1C–3DSE	
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 RELA	YS — Medium Duty Ty				
COIL SPECIFICATIONS					
Nominal Coil VDCMax. Continuous VDCCoil Resistance ±10%Must Operate VDC			ORDER I	NUMBER	
3	3.3	20	2.25	AZ951–1CM–3DE	AZ952–1CM–3DE
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

COIL SPECIFICATIONS				ORDER NUMBER	
Nominal Coil Max. Continuous Coil Resistance Must Operate VDC VDC ±10% VDC					
3	3.3	45	2.25	AZ951-1CM-3DSE	AZ952-1CM-3DSE
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-12DS
15	25.6	1093	11.30	AZ951-1CM-15DSE	AZ952-1CM-15DS
18	30.8	1575	13.50	AZ951-1CM-18DSE	AZ952-1CM-18DS
24	41.0	2800	18.00	AZ951–1CM–24DSE	AZ952-1CM-24DS

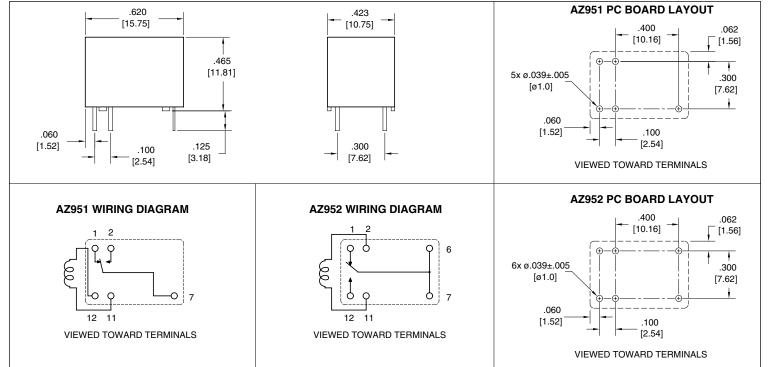
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STANDARD RELAYS — Heavy Duty Type						
	COIL SPECIFICATIONS					
Nominal Coil VDC				ORDER N	NUMBER	
3	3.3	20	2.25	AZ951–1CH–3DE	AZ952-1CH-3DE	
5	6.7	56	3.75	AZ951–1CH–5DE	AZ952-1CH-5DE	
6	8.0	80	4.50	AZ951–1CH–6DE	AZ952-1CH-6DE	
12	16.0	320	9.00	AZ951-1CH-12DE	AZ952-1CH-12DE	
24	32.0	1280	18.00	AZ951–1CH–24DE	AZ952–1CH–24DE	

MECHANICAL DATA



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



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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product
under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.