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



Arrangement	SPDT (1 Form C)
Ratings Light Duty	Resistive load: Max. switched power: 30 W or 125 VA
Light Buty	Max. switched current: 1 A 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 RELA	YS — Light Duty Type				
COIL SPECIFICATIONS					
Nominal Coil VDC	Max. Continuous VDC	Coil 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	/S — Light Duty Type					
	COIL SPECIFICATIONS					
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate 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 Max. Continuous Coil Resistance Must Operate VDC VDC ±10% VDC			ORDER	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

SENSITIVE RELAY	S — Medium Duty Typ				
COIL SPECIFICATIONS					
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	ORDER NUMBER	
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-12DSE
15	25.6	1093	11.30	AZ951-1CM-15DSE	AZ952-1CM-15DSE
18	30.8	1575	13.50	AZ951-1CM-18DSE	AZ952-1CM-18DSE
24	41.0	2800	18.00	AZ951-1CM-24DSE	AZ952-1CM-24DSE

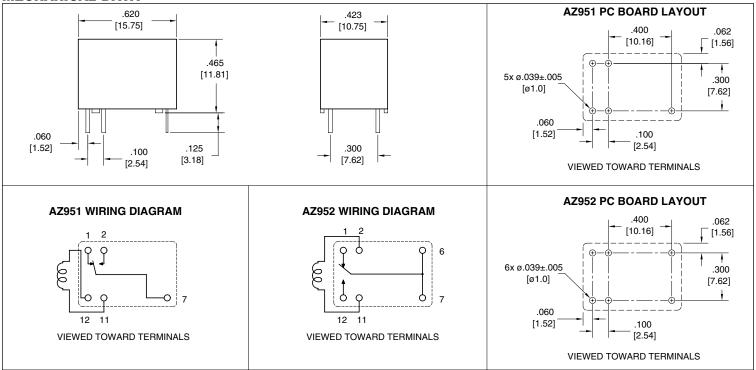
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STANDARD RELA	YS — Heavy Duty Type				
COIL SPECIFICATIONS					
Nominal Coil Max. Continuous Coil Resistance Must Operate VDC VDC ±10% VDC			ORDER N	NUMBER	
3	3.3	20	2.25	AZ951-1CH-3DE	AZ952-1CH-3DE
5	6.7	56	3.75	AZ951-1CH-5DE	AZ952-1CH-5DE
6	8.0	80	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"