A7951/AZ952

SUBMINIATURE **POWER RELAY**

FEATURES

- · Subminiature size for high density packaging
- · Coil sensitivity to 116 mW
- Extremely low cost
- · Coils to 24 VDC

CONTACTS Arrangement

Light Duty

Medium Duty

Heavy Duty

Material

COIL Power

Resistance

(typical)

Dissipation

At Pickup Voltage

Max Continuous

Temperature Rise

Max. Temperature

Ratings

· Epoxy sealed for automatic wave soldering

SPDT (1 Form C)

Max. switched power: 30 W or 125 VA

1 A at125 VAC

Max. switched power: 90 W or 375 VA

3 A at 125 VAC Max. switched power: 150 W or 625 VA

5 A at 125 VAC

Standard Coil: 253 mW Sensitive coil: 116 mW

At nominal coil voltage:

Standard: 54°C (97°F) Sensitive: 30°C (54°F)

105°C (221°F)

0.8 W at 20°C (68°F) ambient

Max. switched voltage: 150 VDC or 300 VAC

Max. switched voltage: 150 VDC or 300 VAC

Max. switched voltage: 150 VDC or 300 VAC

Light and Medium Duty: Silver, gold plated Heavy Duty: Silver nickel, gold plated

Max. switched current: 1 A

UL Rating: 1 A at 30 VDC

Max. switched current: 3 A

UL Rating: 3 A at 30 VDC

Max. switched current: 5 A

UL Rating: 5 A at 30VDC

< 100 milliohms initially

Resistive load:

- 1 Amp, 3 Amp & 5 Amp contacts
- · Life expectancy to 10 million operations
- UL, CUR file E43203



GENERAL DATA

Life Expectancy	Minimum operations		
Mechanical	1 x 10 ⁷		
Electrical	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	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)		
Vibration	0.062" (1.5 mm) 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		
Packing unit in pcs			
AZ951	25 per plastic tube / 2000 per carton box		
AZ952	25 per plastic tube / 2000 per carton box		

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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This product specification to be used only together with the application notes which can be downloaded from http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf

AZ951/AZ952 _

RELAY ORDERING DATA

STANDARD RELAYS — Light Duty Type						
COIL SPECIFICATIONS						
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	ORDER NUMBER		
5	3.75	6.7	56	AZ951-1C-5DE	AZ952–1C–5DE	
6	4.50	8.0	80	AZ951-1C-6DE	AZ952-1C-6DE	
12	9.00	16.0	320	AZ951-1C-12DE	AZ952-1C-12DE	
24	18.00	32.0	1,280	AZ951-1C-24DE	AZ952-1C-24DE	

SENSITIVE RELAYS — Light Duty Type

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	ORDER NUMBER	
5	3.75	8.5	120	AZ951–1C–5DSE	AZ952–1C–5DSE
6	4.50	10.4	180	AZ951-1C-6DSE	AZ952-1C-6DSE
9	6.75	15.3	400	AZ951-1C-9DSE	AZ952–1C–9DSE
12	9.00	20.5	700	AZ951-1C-12DSE	AZ952-1C-12DSE
24	18.00	41.0	2,800	AZ951-1C-24DSE	AZ952–1C–24DSE

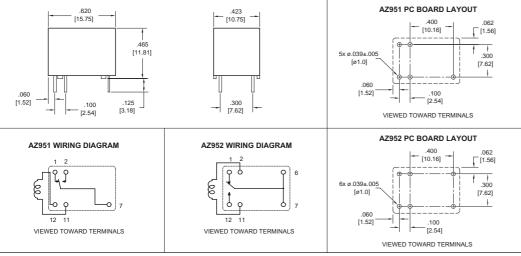
STANDARD RELAYS — Medium Duty Type

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	ORDER NUMBER	
5	3.75	6.7	56	AZ951–1CM–5DE	AZ952–1CM–5DE
6	4.50	8.0	80	AZ951–1CM–6DE	AZ952-1CM-6DE
12	9.00	16.0	320	AZ951–1CM–12DE	AZ952-1CM-12DE
18	13.50	19.8	720	AZ951–1CM–18DE	AZ952-1CM-18DE
24	18.00	32.0	1,280	AZ951–1CM–24DE	AZ952–1CM–24DE

STANDARD RELAYS — Heavy Duty Type

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	ORDER NUMBER	
5	3.75	6.7	56	AZ951–1CH–5DE	AZ952–1CH–5DE
6	4.50	8.0	80	AZ951–1CH–6DE	AZ952-1CH-6DE
12	9.00	16.0	320	AZ951–1CH–12DE	AZ952–1CH–12DE
24	18.00	32.0	1,280	AZ951–1CH–24DE	AZ952–1CH–24DE

MECHANICAL DATA



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

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