

AZ954

SUBMINIATURE POWER RELAY

FEATURES

- Subminiature size for high density packaging
- Coil sensitivity to 114 mW
- Extremely low cost
- Coils to 24 VDC
- Epoxy sealed version available
- 2 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 125 VAC General Use 1 A at 30 VDC Resistive
Medium Duty	Max. switched power: 30 W or 250 VA Max. switched current: 2 A Max. switched voltage: 150 VDC* or 300 VAC UL Rating: 2 A at 125 VAC General Use 1 A at 30 VDC Resistive.
Material	Silver nickel, gold clad
Resistance	< 100 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	0.45W coil: 253 mW 0.36W coil: 203 mW 0.2W coil: 114 mW
Max Continuous Dissipation	0.8 W at 20°C (68°F) ambient
Temperature Rise	At nominal coil voltage: 0.45W coil: 54°C (97°F) 0.36W coil: 44°C (79°F) 0.2W coil: 30°C (54°F)
Max. Temperature	130°C (266°F)

GENERAL DATA

Life Expectancy	Minimum operations
Mechanical	1 x 10 ⁷
Electrical	1 x 10 ⁵ at 2 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 0.45W: -25°C (-13°F) to 55°C (131°F) 0.36W: -25°C (-13°F) to 65°C (149°F) 0.2W: -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

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.

ZETTLER electronics GmbH - A ZETTLER GROUP Company

Junkersstr. 3, D-82178 Puchheim, Germany

phone: +49 89 800 97-0 office@ZETTLERelectronics.com
fax: +49 89 800 97-200 www.ZETTLERelectronics.com

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>

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RELAY ORDERING DATA

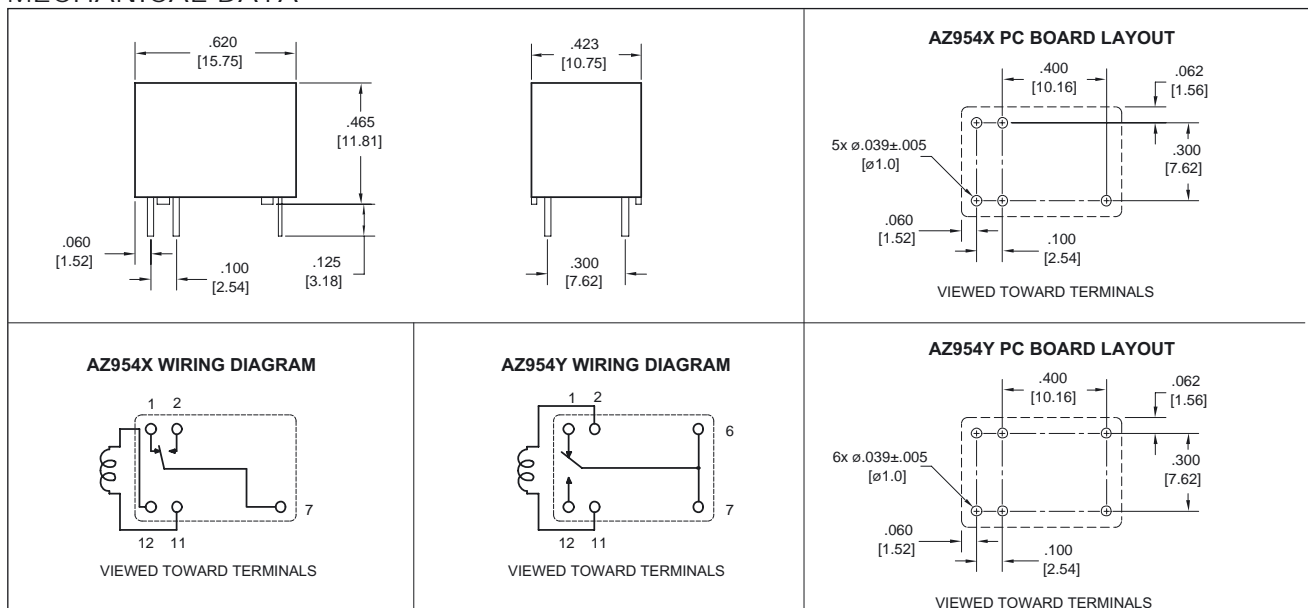
MEDIUM DUTY RELAYS – 0.45 W COIL					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC		
3	4.0	20	2.25	AZ954X-1C-3D	AZ954Y-1C-3D
5	6.7	56	3.75	AZ954X-1C-5D	AZ954Y-1C-5D
6	8.0	80	4.50	AZ954X-1C-6D	AZ954Y-1C-6D
9	12.0	180	6.75	AZ954X-1C-9D	AZ954Y-1C-9D
12	16.0	320	9.0	AZ954X-1C-12D	AZ954Y-1C-12D
24	32.0	1,280	18.0	AZ954X-1C-24D	AZ954Y-1C-24D

MEDIUM DUTY RELAYS – 0.36 W COIL					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC		
3	4.5	25	2.25	AZ954X-1C-3DM	AZ954Y-1C-3DM
5	7.5	70	3.75	AZ954X-1C-5DM	AZ954Y-1C-5DM
6	8.9	100	4.50	AZ954X-1C-6DM	AZ954Y-1C-6DM
9	13.4	225	6.75	AZ954X-1C-9DM	AZ954Y-1C-9DM
12	17.8	400	9.0	AZ954X-1C-12DM	AZ954Y-1C-12DM
24	35.7	1,600	18.0	AZ954X-1C-24DM	AZ954Y-1C-24DM

LIGHT DUTY RELAYS – 0.2 W COIL					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC		
3	6.0	45	2.25	AZ954X-1C-3DS	AZ954Y-1C-3DS
5	9.8	120	3.75	AZ954X-1C-5DS	AZ954Y-1C-5DS
6	12.0	180	4.50	AZ954X-1C-6DS	AZ954Y-1C-6DS
9	17.8	400	6.75	AZ954X-1C-9DS	AZ954Y-1C-9DS
12	23.6	700	9.0	AZ954X-1C-12DS	AZ954Y-1C-12DS
24	47.3	2,800	18.0	AZ954X-1C-24DS	AZ954Y-1C-24DS

*Add suffix "E" for epoxy sealed version.

MECHANICAL DATA



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

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