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 versions available
- 2 Amp contacts
- Class B insulation standard
- Life expectancy to 10 million operations
- UL, CUR file E43203



CONTACTS

Arrangement	SPDT (1 Form C)
Ratings	Resistive load: 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 240 VAC General Use 1 A at 30 VDC Resistive
Material	Silver nickel, gold plated
Resistance	< 100 milliohms initially

COIL

Power	
At Pickup Voltage (typical)	0.45 W coil: 253 mW 0.36 W coil: 203 mW 0.2 W coil: 114 mW
Max Continuous Dissipation	1.0 W at 20°C (68°F) ambient
Temperature Rise	At nominal coil voltage: 0.45W: 54°C (97°F) 0.36W: 44°C (79°F) 0.2W: 30°C (54°F)
Max. Temperature	130°C (266°F)

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.

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1 x 10^7 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** **Storage**	At nominal coil voltage 0.45W: -25°C (-13°F) to 75°C (167°F) 0.36W: -25°C (-13°F) to 85°C (185°F) 0.2W: -25°C (-13°F) to 95°C (203°F) -25°C (-13°F) to 130°C (266°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

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5/16/05W

AZ954

RELAY ORDERING DATA

0.45 W COIL

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC		
3	4.5	20	2.25	AZ954X–1C–3D	AZ954Y–1C–3D
5	7.5	56	3.75	AZ954X–1C–5D	AZ954Y–1C–5D
6	8.9	80	4.50	AZ954X–1C–6D	AZ954Y–1C–6D
9	13.4	180	6.75	AZ954X–1C–9D	AZ954Y–1C–9D
12	17.8	320	9.0	AZ954X–1C–12D	AZ954Y–1C–12D
24	35.7	1280	18.0	AZ954X–1C–24D	AZ954Y–1C–24D

0.36 W COIL

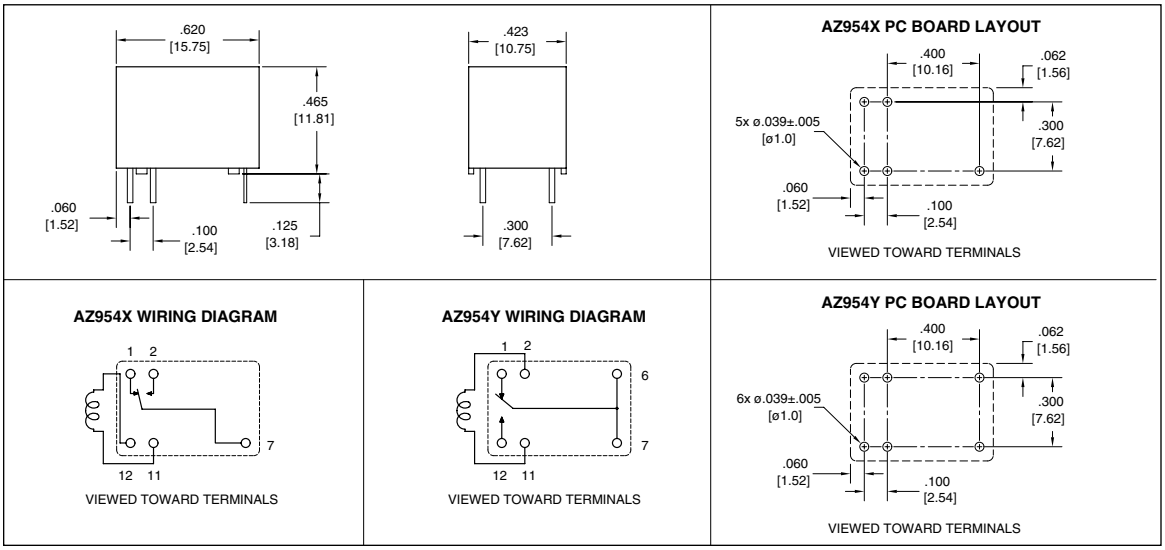
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC		
3	5.0	25	2.25	AZ954X–1C–3DM	AZ954Y–1C–3DM
5	8.4	70	3.75	AZ954X–1C–5DM	AZ954Y–1C–5DM
6	10	100	4.50	AZ954X–1C–6DM	AZ954Y–1C–6DM
9	15	225	6.75	AZ954X–1C–9DM	AZ954Y–1C–9DM
12	20	400	9.0	AZ954X–1C–12DM	AZ954Y–1C–12DM
24	40	1600	18.0	AZ954X–1C–24DM	AZ954Y–1C–24DM

0.2 W COIL

COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC		
3	6.7	45	2.25	AZ954X–1C–3DS	AZ954Y–1C–3DS
5	11	120	3.75	AZ954X–1C–5DS	AZ954Y–1C–5DS
6	13.4	180	4.50	AZ954X–1C–6DS	AZ954Y–1C–6DS
9	20	400	6.75	AZ954X–1C–9DS	AZ954Y–1C–9DS
12	26.5	700	9.0	AZ954X–1C–12DS	AZ954Y–1C–12DS
24	59.9	2800	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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