AZ939

SENSITIVE SUBMINIATURE RELAY

FEATURES

- Extremely small footprint utilizing only 0.22 square inch of PCB area
- Thin vertical profile only 0.283" wide
- 1 Form A contact with up to 3 Amp switching capability
- High sensitivity, 113 mW pickup
- Dielectric strength 4000 Vrms contact to coil
- Coils to 24 VDC
- Epoxy sealed for automatic wave soldering and cleaning
- UL, CUR file E43203

CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 90 W or 750 VA Max. switched current: 3 A Max. switched voltage: 150* VDC or 250 VAC Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load **UL/CSA**	3 A at 250 VAC, general use, 100k cycles 3 A at 30 VDC, resistive, 200k cycles 1/10 HP at 250 VAC, 100k cycles
Material	Silver nickel
Resistance	< 100 milliohms initially (at 6 V, 1 A, voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	113 mW
Max. Continuous Dissipation	750 mW at 20°C (68°F) ambient
Temperature Rise	26°C (47°F) at nominal coil voltage
Temperature	Max. 105°C (221°F)

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than “Must Operate” value.
3. Minimum permissible contact load.
4. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 5 million operations 1 X 10^5 at 3 A, 30 VDC or 250 VAC Res.
Operate Time (typical)	6 ms at nominal coil voltage
Release Time (typical)	3 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength **(at sea level for 1 min.)**	750 Vrms between open contacts 4000 Vrms contact to coil
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
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	4 grams

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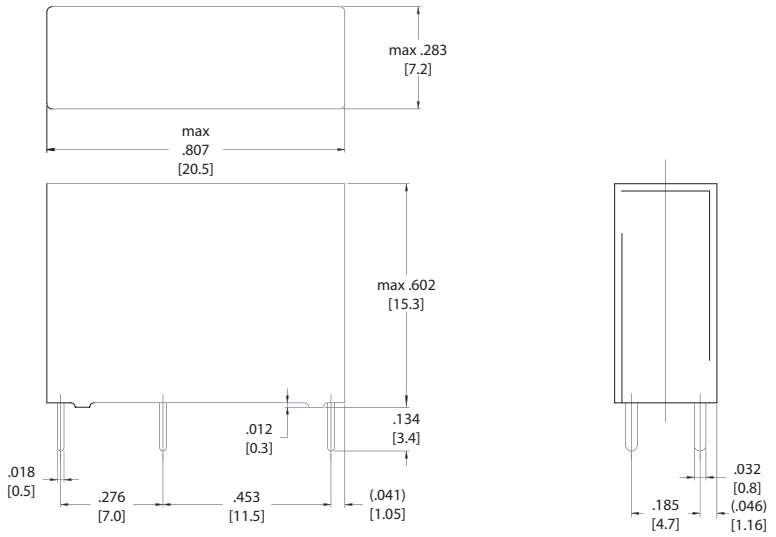
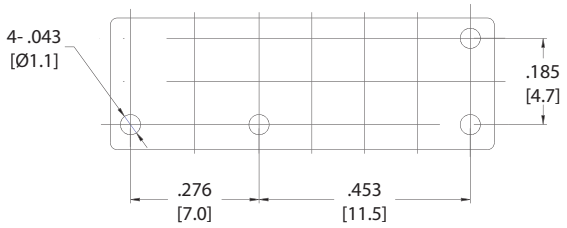
RELAY ORDERING DATA

COIL SPECIFICATIONS				
Nominal Coil VDC	**Max. Continuous VDC**	**Coil Resistance ± 10%**	**Must Operate VDC**	**ORDER NUMBER**
4.5	8.7	101	3.4	AZ939–4.5
5	9.7	125	3.8	AZ939–5
6	11.6	180	4.5	AZ939–6
9	17.4	405	6.8	AZ939–9
12	23.2	720	9.0	AZ939–12
18	34.8	1620	13.5	AZ939–18
24	46.5	2,880	18.0	AZ939–24

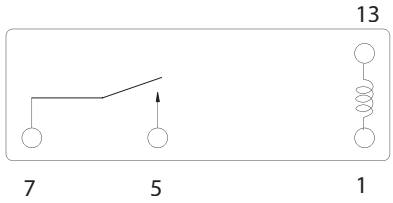
MECHANICAL DATA



PC Board Layout
Viewed toward terminals



Wiring Diagram
Viewed toward terminals



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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