AZ9375

SENSITIVE SUBMINIATURE RELAY

FEATURES

- Extremely small footprint
- Thin vertical profile only 0.275" (7 mm) wide
- Dielectric strength 4000 Vrms
- Type 'F' 155°C wire standard
- 10 Amp switching capability
- UL, CUR file E44211
- TUV R50284629



CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 150 W or 1250 VA Max. switched current: 10 A Max. switched voltage: 30 VDC or 277 VAC
Rated Load **UL / CSA**	10 A at 125 VAC, Res., 100k cycles, 90°C 10 A at 30 VDC, Res., 100k cycles, 90°C 5 A at 250 VAC, Res., 100k cycles, 90°C 1/10 HP at 250 VAC, 100k cycles, 85°C 1.4 FLA / 7.5 LRA at 250 VAC, 100k cycles, 85°C
TUV	5 A at 250 VAC, Res., 100k cycles, 90°C 10A at 125 VAC, 30 VDC, Res., 100k cycles, 90°C
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	338 mW at 20°C (68°F) ambient
Temperature Rise	40°C (104°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. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 5 million operations 1 X 10^5 at 5 A, 250 VAC Res.
Operate Time (typical)	10 ms at nominal coil voltage
Release Time (typical)	4 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength **(at sea level for 1 min.)**	750 Vrms between open contacts 4000 Vrms coil to contact
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 90°C (194°F) -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" (1.5 mm) 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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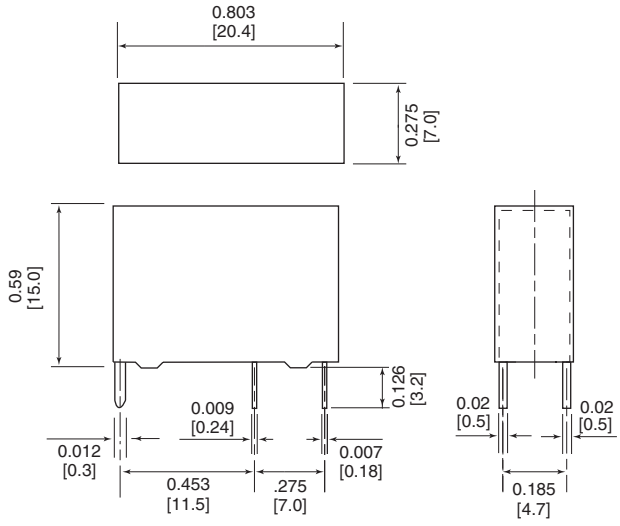
RELAY ORDERING DATA

COIL SPECIFICATIONS				
Nominal Coil VDC	Must Operate VDC	Max Continuous VDC	Coil Resistance ± 10%	ORDER NUMBER
3	2.25	3.9	45	AZ9375-1A-3DF
5	3.75	6.5	125	AZ9375-1A-5DF
6	4.50	7.8	180	AZ9375-1A-6DF
9	6.75	11.7	405	AZ9375-1A-9DF
12	9.00	15.6	720	AZ9375-1A-12DF
18	13.50	23.4	1620	AZ9375-1A-18DF
24	18.00	31.2	2800	AZ9735-1A-24DF

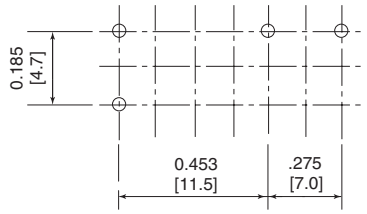
* Add suffix “E” after ‘D’ for sealed version.

MECHANICAL DATA

Standard Pinning Outline Dimensions



PC BOARD LAYOUT



Viewed toward terminals

WIRING DIAGRAM



Viewed toward terminals

** Attention: Grid is not 0.1 inch (2.54 mm). **

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