AZ921

ULTRA-SENSITIVE SUBMINIATURE RELAY

FEATURES

- 5 Amp switching capability
- Extremely small footprint utilizing only 0.16 square inch of PCB area
- Thin vertical profile only 0.2" wide
- Dielectric strength 3000Vrms contact to coil
- Bifurcated contacts available
- Epoxy sealed
- Class B (130°C) standard
- Class F (155°C) versions available
- UL,CUR file E43203
- TÜV 50243813-1

CONTACTS

Arrangement	SPST (1 Form A), single button contact or bifurcated
Ratings	Resistive load: Max. switched power: 150W or 1250VA Max. switched current: 5A Max. switched voltage: 150VDC* or 250VAC Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
Rated Load **UL, CUR**	5A at 250VAC, Resistive, 50k cycles [1][2][3] 3A at 250VAC, Resistive, 100k cycles [1][2][3] 5A at 30VDC, Resistive, 50k cycles [1][2][3] 3A at 30VDC, Resistive, 100k cycles [1][2][3] B300 pilot duty [3] R300 pilot duty [3]
TÜV	5A at 250VAC, Resistive, 50k cycles [3] 5A at 250VAC, Resistive, 100k cycles [1][2] 5A at 30VDC, Resistive, 50k cycles [3] 5A at 30VDC, Resistive, 100k cycles [1][2]
Material	Silver nickel (single button contact) [1] Silver nickel, gold plated (bifurcated contact) [2] Silver tin oxide (single button contact) [3] Gold plating available
Resistance	< 50 milliohms initially (1A, 6VDC method)

COIL

Power	
At Pickup Voltage (typical)	58mW (5 - 18VDC) 88mW (24VDC)
Max. Continuous Dissipation	1.3W at 20°C (68°F) ambient
Temperature Rise	12°C (22°F) at nominal coil voltage (5-18 V coils) 17°C (31°F) at nominal coil voltage (24 V coil)
Temperature	Max. 130°C (266°F) Class B Max. 155°C (311°F) Class F

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 20 million operations 1 X 10^5 at 5A, 30VDC or 250VAC
Operate Time (typical)	10ms at nominal coil voltage
Release Time (typical)	5ms at nominal coil voltage (with no coil suppression)
Dielectric Strength **(at sea level for 1 min.)**	1000Vrms between open contacts 3000Vrms contact to coil
Insulation Resistance	1000 megohms min. at 20°C, 500VDC, 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 130°C (266°F)
Vibration	0.062" (1.5mm) DA at 10–55Hz
Shock	10g
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	3 grams

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.

AZ921

RELAY ORDERING DATA

AZ921-1AB-24DE A K F XXX

Special Code

May be followed by additional letters or numbers (does not affect construction)

Insulation System

Nil: Class B
F: Class F

Terminal Layout

Nil: 0.2 inch spacing
K: 0.3 inch spacing

Gold Plating

Nil: No gold plating
A: Gold plated contacts

Coil Voltage

5DE through 24DE: 5 through 24VDC

Contact Configuration

–1A: AgNi, single contact, SPST-NO
–1AB: AgNi, bifurcated contact,gold plated
–1AE: AgSnO2, single contact, SPST-NO

Basic series designation - AZ921

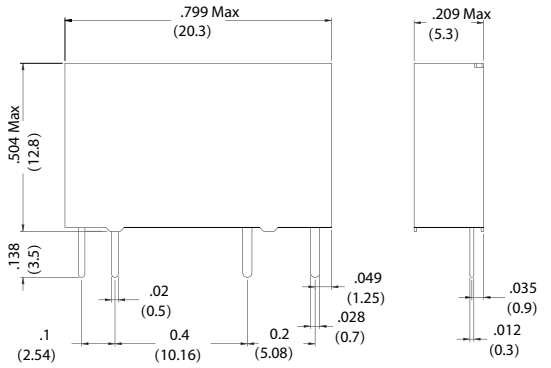
Coil Specifications

Nominal Coil VDC	Max. Continuous VDC	Coil Resistance Ohms ± 10%	Must Operate VDC
5	16.5	208	3.5
6	19.9	300	4.2
9	29.8	675	6.3
12	39.8	1200	8.4
18	59.6	2700	12.6
24	65.0	3200	16.8

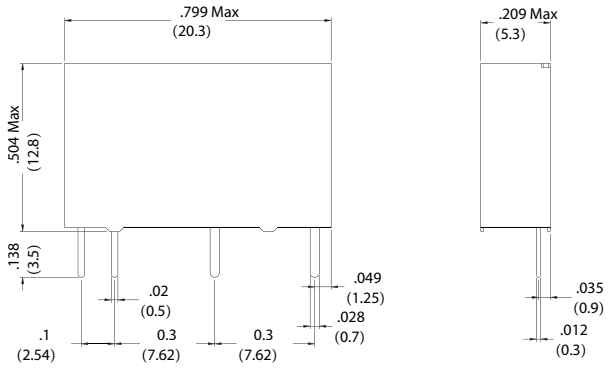
AZ921

MECHANICAL DATA

Standard

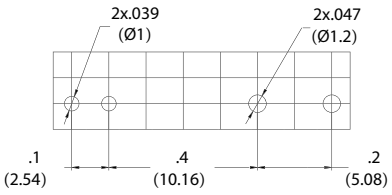


"K" Version

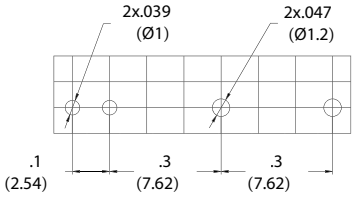


PCB BOARD LAYOUT

Standard

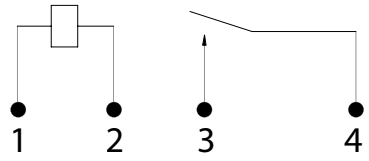


"K" Version



(Viewed Toward Terminals)

WIRING DIAGRAM



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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for General Purpose Relays ***category:***

Click to view products by Zettler ***manufacturer:***

Other Similar products are found below :

PCN-105D3MH,000 59641F200 5JO-1000CD-SIL 5X827E 5X837F 5X840F 5X842F 5X848E LY2N-AC120 LY2-US-AC120 LY2-US-DC24 LY3-US-AC120 LY4F-UA-DC12 LY4F-UA-DC24 LY4F-US-AC120 LY4F-US-AC240 LY4F-US-DC24 LY4F-VD-AC110 M115C60 M115N010 M115N0150 603-12D 60HE1-5DC 60HE2S-12DC 61211T0B4 61212T400 61222Q400 61243B600 61243C500 61243Q400 61311BOA2 61311BOA6 61311BOA8 61311C0A2 61311COA1 61311COA6 61311F0A2 61311QOA1 61311QOA4 61311T0D6 61311TOA6 61311TOA7 61311TOB3 61311TOB4 61311U0A6 61312Q600 61312T400 61312T600 61313U200 61313U400