AZ9321

20 AMP MINIATURE PC BOARD RELAY

FEATURES

- High performance
- 6kV lightning surge withstand
- Flux tight and sealed versions available
- Class F insulation system standard
- UL, CUR file E44211

CONTACTS

Arrangement	SPST - N.O. (1 Form A) SPDT (1 Form C)
Ratings	Form A and C Max. switched power: 480 W or 4700VA Max. switched current: 16A (DC), 20A (AC) Max. switched voltage: 30VDC or 277VAC
Rated Load **UL/CUR**	 1 Form A 20A at 125VAC, Res., 100k cycles [1][2] 17A at 277VAC, Res., 100k cycles [2] 15A at 125VAC, Res., 100k cycles [1][2] 16A at 250VAC, Res., 50k cycles [1] 1HP at 250VAC [1][2] 1HP at 125VAC [2] TV-8 at 125VAC [1] 1 Form C 20A at 125VAC Res. 100k cycles N.O. [1][2] 20A at 125VAC Res. 50k cycles N.C.[2] 20A at 125VAC Res. 17k cycles N.C.[1] 17A at 125VAC Res. 50k cycles N.C.[1] 17A at 277VAC Res. 100k cycles N.O. [2] 15A at 277VAC Res. 50k cycles N.C. [2] 1HP at 250VAC N.O. [1][2] 1HP at 125VAC N.O. [2] 1/2HP at 125VAC N.C. [2] 1/2HP at 277VAC N.C. [2] TV-8 at 125VAC N.O./ N.C. [1]
Material	Silver nickel [2] or Silver tin oxide [1] (gold plating available)
Resistance	< 100 milliohms initially (6V, 1A voltage drop method)

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	 $1x10^7$ 5×10^4 at 20A, 120VAC Res.
Operate Time	10ms max.
Release Time	5ms max. (with no coil suppression)
Dielectric Strength **(at sea level for 1 min.)**	3000Vrms contact to coil 1000Vrms across contacts
Insulation Resistance	100 megohms min. at 500VDC, 50% RH
Dropout	Greater than 10% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C(-40°F) to 95°C(203°F) -40°C(-40°F) to 155°C(311°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 (500°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight (approx.)	14 grams

COIL

Power **At Pickup Voltage** **Max Continuous Dissipation**	 203mW 1.4W at 20°C (68°F)
Temperature Rise **(at nominal coil voltage)**	20°C (36°F)
Temperature	Max. 155°C (311°F)

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than “Must Operate” value.
3. Unsealed relays should not be dip cleaned.
4. Specifications subject to change without notice.

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6/07/19

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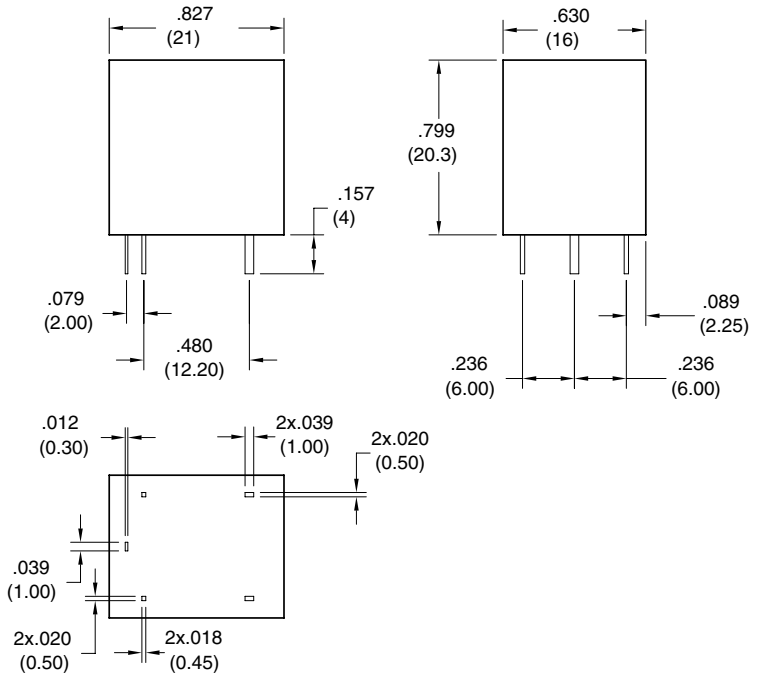
RELAY ORDERING DATA

STANDARD RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance	Must Operate VDC	1 Form A (SPST-N.O.)	1 Form C (SPDT)
5	6.0	70 ±10%	3.8	AZ9321–1A–5DF	AZ9321–1C–5DF
6	7.2	100 ±10%	4.5	AZ9321–1A–6DF	AZ9321–1C–6DF
9	10.8	225 ±10%	6.8	AZ9321–1A–9DF	AZ9321–1C–9DF
12	14.4	400 ±10%	9.0	AZ9321–1A–12DF	AZ9321–1C–12DF
18	21.6	900 ±10%	13.5	AZ9321–1A–18DF	AZ9321–1C–18DF
24	28.8	1,600 ±15%	18.0	AZ9321–1A–24DF	AZ9321–1C–24DF
48	57.6	6,400 ±15%	36.0	AZ9321–1A–48DF	AZ9321–1C–48DF

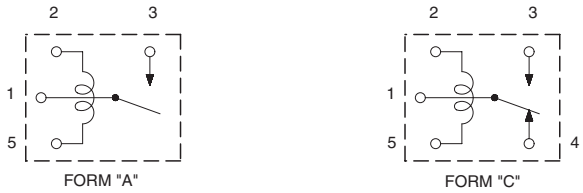
*Replace “-1A ” or “-1C “ with “-1AE “ or “-1CE “ for silver tin oxide contacts. Replace “F” with “EF” for epoxy sealed version.
Replace “F” or “EF” with “AF” or “AEF” for gold plated contacts.

MECHANICAL DATA

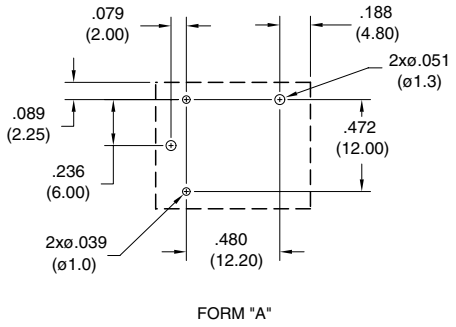
Outline Dimensions



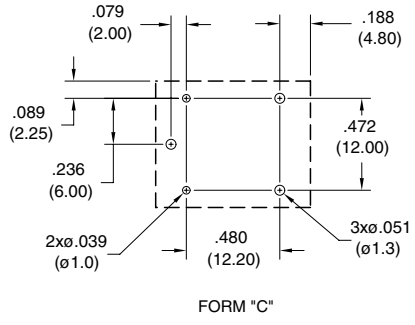
Wiring Diagram



PC Board Layout



FORM "A"



FORM "C"

View Toward Terminals

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