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 [2] 20A at 125VAC Res. 100k cycles N.O. [1][2] 20A at 125VAC Res. 50k cycles N.C.[2] 20A at 125VAC Res. 50k cycles N.C.[1] 17A at 125VAC Res. 50k cycles N.C.[1] 17A at 257VAC Res. 100k cycles N.C.[2] 15A at 277VAC Res. 100k cycles N.C. [2] 1HP at 250VAC N.O. [1][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] 1/2HP 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 x 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.

AMERICAN ZETTLER, INC.

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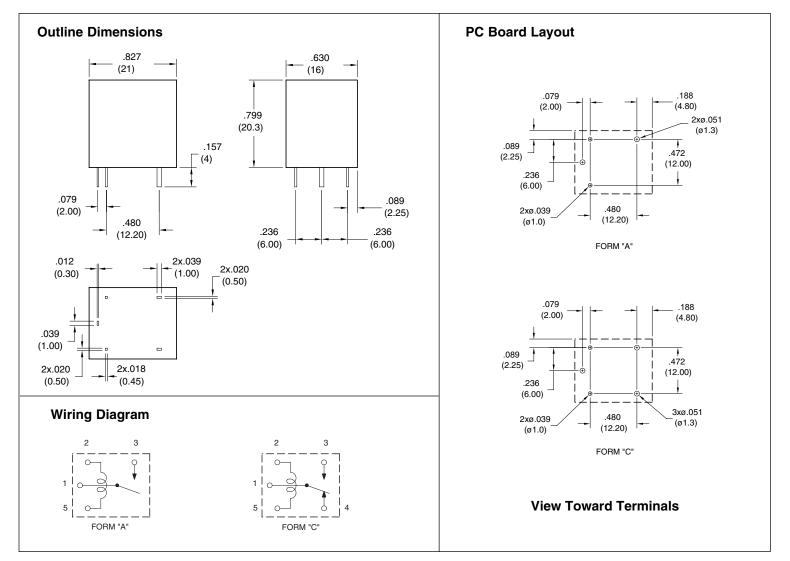
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RELAY ORDERING DATA

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-12DI
18	21.6	900 ±10%	13.5	AZ9321-1A-18DF	AZ9321-1C-18D
24	28.8	1,600 ±15%	18.0	AZ9321-1A-24DF	AZ9321-1C-24D
48	57.6	6,400 ±15%	36.0	AZ9321–1A–48DF	AZ9321-1C-48D

*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



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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.