AZ9321_

20 AMP MINIATURE PC BOARD RELAY

FEATURES

- High performance
- 6 kV lightning surge withstand
- Flux tight and sealed versions available
- Class F insulation system standard
- UL, CUR file E44211, TÜV 50100775

CONTACTS

Arrangement	SPST - N.O. (1 Form A) SPDT (1 Form C)				
Ratings	Form A and C Max. switched power: 480 W or 4709 VA Max. switched current: 16 A DC, 20 A AC Max. switched voltage: 30 VDC or 277 VAC				
Rated Load					
UL/CUR	1 Form A 20 A at 125 VAC, Res., 100k cycles [1][2] 17 A at 277 VAC, Res., 100k cycles [2] 15 A at 125 VAC, Res., 100k cycles [1][2] 16 A at 250 VAC, Res., 50k cycles [1] 1HP at 250 VAC [1][2] 1HP at 125 VAC [2] TV-8 at 125 VAC [1]				
	1 Form C 20 A at 125 VAC Res. 100k cycles N.O. [1][2] 20 A at 125 VAC Res. 50k cycles N.C.[2] 20 A at 125 VAC Res. 17k cycles N.C.[1] 17 A at 125 VAC Res. 50k cycles N.C.[1] 17 A at 277 VAC Res. 100k cycles N.O. [2] 15 A at 277 VAC Res. 50k cycles N.C. [2]				
TÜN.	1 HP at 250 VAC N.O. [1][2] 1 HP at 125 VAC N.O. [2] 1/2 HP at 125 VAC N.C. [2] 1/2 HP at 277 VAC N.C. [2] TV-8 at 125 VAC N.O./ N.C. [1]				
ΤÜV	1 Form A 20 A at 125 VAC Res., 80k cycles [1][2] 16 A at 250 VAC Res., 80k cycles [1][2]				
	1 Form C 16 A at 250 VAC N.O. Res., 50k cycles[1][2] 10 A at 250 VAC N.C. Res., 50k cycles[1][2]				
Material	Silver tin oxide [1] or silver nickel [2] (gold plating available)				



GENERAL DATA

Life Expectancy Mechanical Electrical	1x10 ⁷ 5 x 10 ⁴ at 20 A 120 VAC Res.			
Operate Time	10 ms max.			
Release Time	5 ms max. (with no coil suppression)			
Dielectric Strength (at sea level for 1 min.)	3000 Vrms contact to coil 1000 Vrms across contacts			
Insulation Resistance	100 megohms min. at 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 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	14 g			

COIL

Power At Pickup Voltage Max Continuous Dissipation	203 mW 1.4 W 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.



AZ9321

RELAY ORDERING DATA

STANDARD RELAY	YS				
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	10.0	70 ±10%	3.8	AZ9321-1A-5DF	AZ9321-1C-5DF
6	12.0	100 ±10%	4.5	AZ9321-1A-6DF	AZ9321-1C-6DF
9	18.0	225 ±10%	6.8	AZ9321-1A-9DF	AZ9321-1C-9DF
12	24.0	400 ±10%	9.0	AZ9321-1A-12DF	AZ9321-1C-12DF
18	36.0	900 ±10%	13.5	AZ9321-1A-18DF	AZ9321-1C-18DF
24	48.0	1,600 ±15%	18.0	AZ9321-1A-24DF	AZ9321-1C-24DF
48	80.4	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



