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] | | | | |
| | 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] | | | | |
| Material | 10 A at 250 VAC N.C. Res., 50k cycles[1][2] 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 RELA | 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



