

AZ2250

30 AMP MINIATURE POWER RELAY

FEATURES

- 1 Form A, B and C contacts available
- AC and DC coils available
- High dielectric strength version available
- Epoxy sealed versions available
- UL Class F (155°C) standard
- UL, CUR file E44211



CONTACTS

| | |
|--------------------|---|
| Arrangement | SPST (1 Form A, or B) SPDT (1 Form C) |
| Ratings | Resistive load: Max. switched power: 560 W or 8310 VA Max. switched current: 30 A (Form A) 15 A (Form B) Max. switched voltage: 277 VAC, 28 VDC |
| UL, CUR | 1 Form A 30 A at 277 VAC, General Use [1] [2] 2 Hp at 250 VAC [1] [2] 1 HP at 125 VAC [1] [2] 30 A at 28 VDC [1] 20/60 A (FLA/LRA) at 277 VAC 30k cycles [1] 1 Form B 15 A at 277 VAC, General Use [1] 10 A at 28 VDC [1] 0.5 HP at 250 VAC [1] .25 HP at 125 VAC [1] 10/33 (FLA/LRA) at 277 VAC 30k cycles [1] 1 Form C 30/20 A (N.O./N.C.) at 277 VAC, General Use [1] [2] 20/10 A (N.O./N.C.) at 28 VDC [1] 2/0.5 HP (N.O./N.C.) at 250 VAC [1] [2] 1/.25 HP (N.O./N.C.) at 125 VAC [1] [2] 20/60 (FLA/LRA) at 277 VAC 30k cycles, N.O. [1] 10/33 (FLA/LRA) at 277 VAC 30k cycles, N.C [1] |
| Material | Silver cadmium oxide [1] or silver tin oxide [2] |
| Resistance | < 50 milliohms initially (24 V, 1 A voltage drop method) |

GENERAL DATA

| | |
|--|--|
| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 30 A 120 VAC Res. |
| Operate Time | 15 msec max. at nominal coil voltage |
| Release Time | 10 msec max. at nominal coil voltage (without suppression) |
| Dielectric Strength (at sea level for 1 min.) | 1500 Vrms contact to contact 2500 Vrms contact to coil 4000 Vrms contact to coil "T" version |
| Insulation Resistance | 1000 megohms min. at 20°C, 500 VDC 50% RH |
| Dropout | DC: > 10% of nominal coil voltage AC: > 20% of nominal coil voltage |
| Ambient Temperature Operating Storage | -40°C (-40°F) to 85°C (185°F) - DC coils -40°C (-40°F) to 70°C (158°F) - AC coils -40°C (-40°F) to 105°C (221°F) |
| Vibration | 0.062" (1.5 mm) DA at 10–55 Hz |
| Shock | 10 g |
| 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 | 36 grams |
| Packing unit in pcs | 40 per plastic tray / 280 per carton box |

COIL

| | |
|------------------------------------|---|
| Power | |
| At Pickup Voltage (typical) | 500 mW (DC coil) 1.4 VA (AC coil) |
| Max. Continuous Dissipation | 1.7 W at 20°C (68°F) ambient 2.7 VA at 20°C (68°F) ambient |
| Temperature Rise | 43°C (77°F) at nominal coil voltage |
| Max. Temperature | 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. Specifications subject to change without notice.

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2004-12-22

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RELAY ORDERING DATA

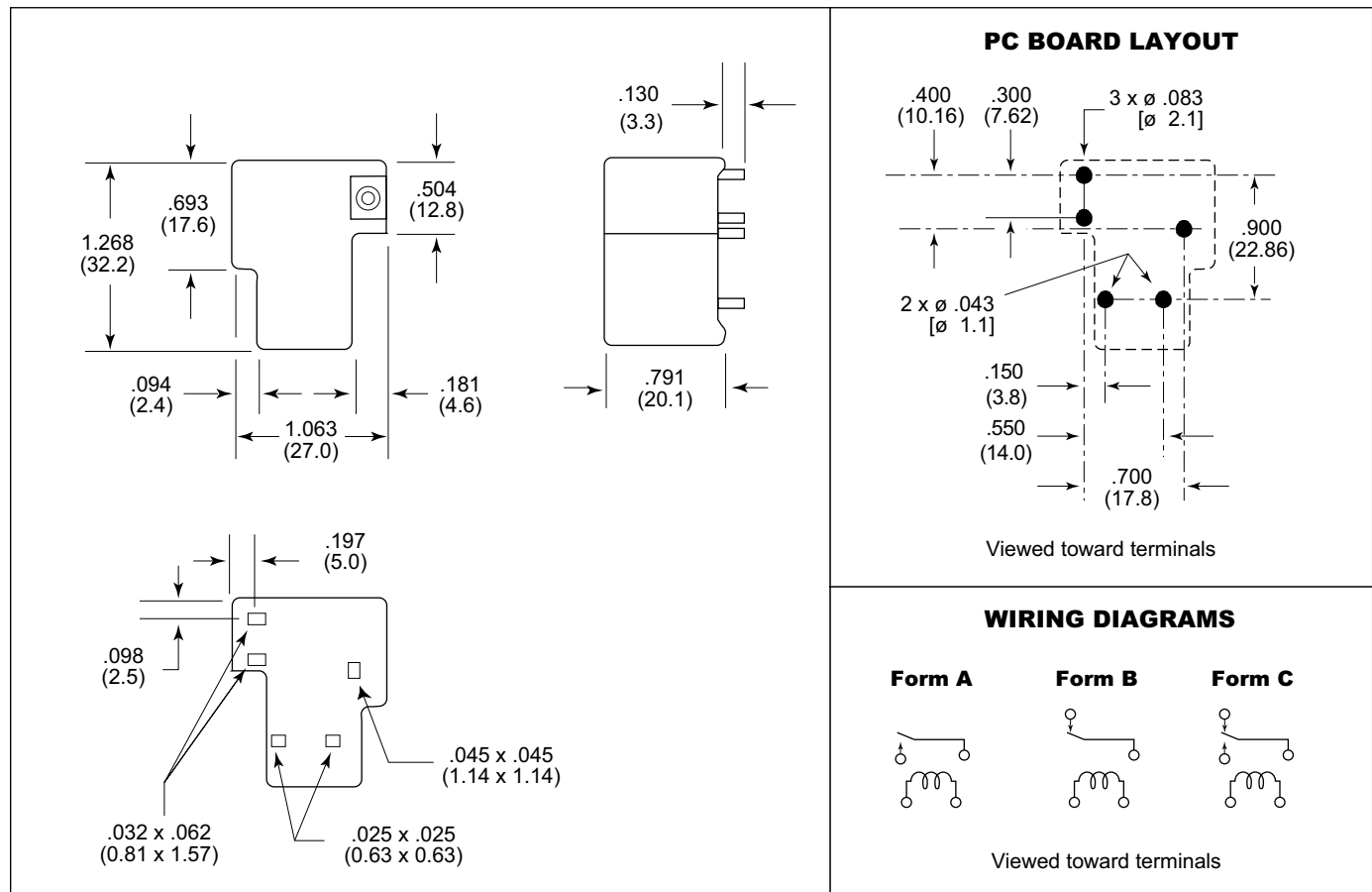
| COIL SPECIFICATIONS – DC Coil | | | | | ORDER NUMBER* |
|-------------------------------|------------------|---------------------|-------------------------------|--------------------------------|-----------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Nominal Current mA $\pm 10\%$ | Coil Resistance Ohm $\pm 10\%$ | |
| 5 | 3.75 | 6.4 | 185 | 27 | AZ2250–1A–5DF |
| 6 | 4.50 | 7.8 | 150 | 40 | AZ2250–1A–6DF |
| 9 | 6.75 | 12.2 | 93 | 97 | AZ2250–1A–9DF |
| 12 | 9.0 | 15.4 | 77 | 155 | AZ2250–1A–12DF |
| 15 | 11.3 | 19.8 | 59 | 256 | AZ2250–1A–15DF |
| 18 | 13.5 | 24.1 | 47 | 380 | AZ2250–1A–18DF |
| 24 | 18.0 | 32.0 | 36 | 660 | AZ2250–1A–24DF |
| 48 | 36.0 | 62.6 | 19 | 2,560 | AZ2250–1A–48DF |
| 110 | 82.5 | 163.2 | 8 | 13,450 | AZ2250–1A–110DF |

| COIL SPECIFICATIONS – AC Coil 50/60 Hz | | | | | ORDER NUMBER* |
|--|------------------|---------------------|-----------------------|--------------------------------|-----------------|
| Nominal Coil VAC | Must Operate VAC | Max. Continuous VAC | Nominal Coil Power VA | Coil Resistance Ohm $\pm 10\%$ | |
| 12 | 9.6 | 13.8 | 2.3 | 25 | AZ2250–1A–12AF |
| 24 | 19.2 | 27.6 | 2.1 | 100 | AZ2250–1A–24AF |
| 120 | 96.0 | 138.0 | 2.3 | 2,500 | AZ2250–1A–120AF |
| 208 | 166.4 | 239.2 | 2.2 | 11,000 | AZ2250–1A–208AF |
| 220/240 | 176.0 | 276.0 | 2.2/2.6 | 13,490 | AZ2250–1A–240AF |
| 277 | 221.6 | 318.5 | 2.2 | 15,000 | AZ2250–1A–277AF |

* Substitute "1B" or "1C" in place of "1A" for 1 Form B or 1 Form C. Add suffix "E" to "1A" or "1B" or "1C" for silver tin oxide contacts.

Substitute "DEF" or "AEF" in place of "DF" or "AF" for epoxy sealed version. Substitute "TF" in place of "F" for 4000 Vrms dielectric strength version.

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

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