

AZ764

16 A SPDT MINIATURE POWER RELAY

FEATURES

- Dielectric strength 5000 Vrms
- Low height: 15.7 mm
- Epoxy sealed version available
- 16 Amp switching
- AC and DC coils
- Isolation spacing greater than 10 mm
- Proof tracking index (PTI/CTI) 250
- Surpasses requirements of VDE 0631/0700
- UL, CUR file E43203; VDE 112904



CONTACTS

| | |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arrangement | SPDT (1 Form C) SPST (1 Form A) |
| Ratings | Resistive load: Max. switched power: 480 W or 4000 VA Max. switched current: 16 A Max. switched voltage: 300* VDC or 400 VAC *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory. |
| Rated Load UL, CUR VDE | 16 A at 250 VAC resistive 16 A at 250 VAC |
| Material | Silver tin oxide |
| Resistance | < 100 milliohms initially |

COIL

| | |
|--------------------------------------------------|---------------------------------------|
| Power At Pickup Voltage (typical) | 200 mW (DC coil) .422 VA (AC coil) |
| Max. Continuous Dissipation | 1.7 W at 20°C (68°F) ambient |
| Temperature Rise | 26°C (47°F) at nominal coil voltage |
| Max. Temperature | 115°C (239°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.

GENERAL DATA

| | |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Life Expectancy Mechanical Electrical | Minimum operations 3 x 10 ⁷ 1 x 10 ⁵ at 16 A 240 VAC res. |
| Operate Time (typical) | 7 ms at nominal coil voltage |
| Release Time (typical) | 4 ms at nominal coil voltage (with no coil suppression) |
| Dielectric Strength (at sea level for 1 min.) | 5000 Vrms coil to contact 1000 Vrms between open contacts |
| Insulation Resistance | 1000 megohms min. at 20°C 500 VDC 50% RH |
| Dropout | Greater than 10% of nominal coil voltage - DC Greater than 15% of nominal coil voltage - AC |
| Ambient Temperature Operating Storage | At nominal coil voltage -40°C (-40°F) to 90°C (194°F) - DC coils -40°C (-40°F) to 75°C (167°F) - AC coils -40°C (-40°F) to 115°C (239°F) |
| Vibration | 0.062" DA at 10–55 Hz |
| Shock | 30 g |
| Enclosure | P.B.T. polyester, UL-94 ; V0 |
| 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 | 14 grams |



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AZ764

RELAY ORDERING DATA

| COIL SPECIFICATIONS - DC Coil | | | | ORDER NUMBER* | |
|-------------------------------|------------------|---------------------|----------------------------|----------------|-----------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Unsealed | Sealed |
| 3 | 2.1 | 7.6 | 22 | AZ764-1CE-3D | AZ764-1CE-3DE |
| 5 | 3.5 | 12.7 | 60 | AZ764-1CE-5D | AZ764-1CE-5DE |
| 6 | 4.2 | 15.3 | 90 | AZ764-1CE-6D | AZ764-1CE-6DE |
| 9 | 6.3 | 22.9 | 200 | AZ764-1CE-9D | AZ764-1CE-9DE |
| 12 | 8.4 | 30.6 | 360 | AZ764-1CE-12D | AZ764-1CE-12DE |
| 18 | 12.6 | 45.9 | 710 | AZ764-1CE-18D | AZ764-1CE-18DE |
| 24 | 16.8 | 61.2 | 1,440 | AZ764-1CE-24D | AZ764-1CE-24DE |
| 36 | 25.2 | 92 | 3,140 | AZ764-1CE-36D | AZ764-1CE-36DE |
| 48 | 33.6 | 122.0 | 5,700 | AZ764-1CE-48D | AZ764-1CE-48DE |
| 60 | 42.0 | 153.0 | 7,500 | AZ764-1CE-60D | AZ764-1CE-60DE |
| 110 | 77.0 | 280.0 | 25,200 | AZ764-1CE-110D | AZ764-1CE-110DE |

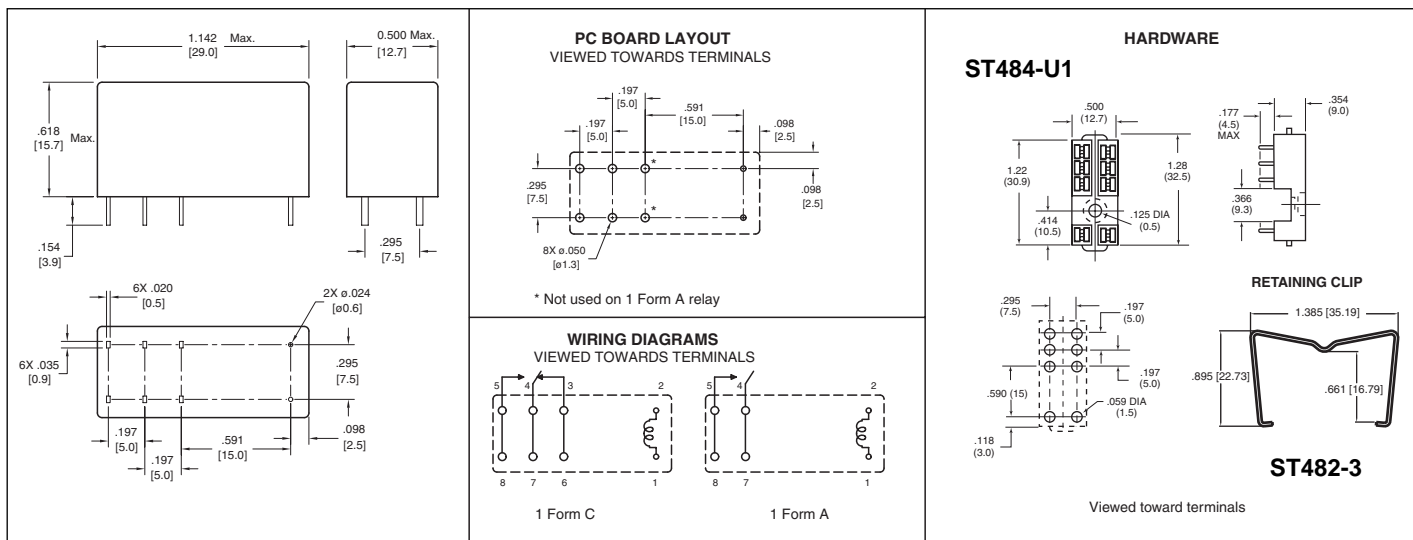
| COIL SPECIFICATIONS - AC Coil | | | | | ORDER NUMBER* | |
|-------------------------------|------------------|---------------------|-------------------------------|----------------------------|----------------|-----------------|
| Nominal Coil VAC | Must Operate VAC | Max. Continuous VAC | Nominal Current mA $\pm 10\%$ | Coil Resistance $\pm 10\%$ | Unsealed | Sealed |
| 12 | 9.0 | 18.0 | 63.0 | 100 | AZ764-1CE-12A | AZ764-1CE-12AE |
| 24 | 18.0 | 36.0 | 31.3 | 400 | AZ764-1CE-24A | AZ764-1CE-24AE |
| 48 | 36.0 | 72.0 | 15.6 | 1550 | AZ764-1CE-48A | AZ764-1CE-48AE |
| 60 | 45.0 | 90.0 | 12.5 | 2600 | AZ764-1CE-60A | AZ764-1CE-60AE |
| 110 | 82.5 | 165.0 | 6.8 | 8900 | AZ764-1CE-110A | AZ764-1CE-110AE |
| 115 | 86.3 | 172.5 | 6.5 | 9600 | AZ764-1CE-115A | AZ764-1CE-115AE |
| 120 | 90.0 | 180.0 | 6.3 | 10200 | AZ764-1CE-120A | AZ764-1CE-120AE |
| 220 | 165.0 | 330.0 | 3.4 | 35500 | AZ764-1CE-220A | AZ764-1CE-220AE |
| 230 | 172.5 | 345.0 | 3.3 | 38500 | AZ764-1CE-230A | AZ764-1CE-230AE |
| 240 | 180.0 | 360.0 | 3.1 | 42500 | AZ764-1CE-240A | AZ764-1CE-240AE |

* For 1 Form A contacts substitute "A" for "C". NOTE: 1 Form A contacts are only available for DC coil versions.

HARDWARE ORDERING DATA

| DESCRIPTION | ORDER NUMBER | DESCRIPTION | ORDER NUMBER |
|-------------|--------------|-------------|--------------|
| Socket | ST484-U1 | Retainer | ST482-3 |

MECHANICAL DATA



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



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