

AZ420

MINIATURE GENERAL PURPOSE RELAY

FEATURES

- Rugged construction for high reliability
- Life expectancy greater than 100 million operations
- DC coils to 115 V
- Power consumption as low as 25 mW per pole available
- Current sensitive and voltage sensitive coils available
- Round core and large coil volume provide greater pull force
- Up to 6 poles in less than one cubic inch
- Dry circuit to 7.5 Amp contacts
- Printed circuit or solder/plug-in terminals
- Balanced spring-held armature allows dependable operation in any position
- Sealed version available (2 and 4 pole)
- UL, CUR file E43203; VDE 0110 Gr. A



CONTACTS

| | |
|--------------------|---|
| Arrangement | DPDT (2 Form C) 4PDT (4 Form C) 6PDT (6 Form C) |
| Ratings | See contact data table under relay ordering data UL Rating: See table for UL approved contact ratings |
| Material | See contact data table under relay ordering data |
| Resistance | < 50 milliohms initially |

COIL

| | |
|--|---|
| Power At Pickup Voltage (typical) | Standard: 450 mW, 2 or 4 pole Sensitive: 80 mW, 2 pole 180 mW, 4 pole (25 mW per pole available) |
| Max. Continuous Dissipation | 2.6 W at 20°C (68°F) ambient 2.0 W at 40°C (105°F) ambient |
| Temperature Rise Standard | 23°C (41°F) at nominal coil voltage, 2 or 4 pole 40°C (72°F) at nominal coil voltage, 6 pole |
| Sensitive | 5°C (9°F) at nominal coil voltage, 2 pole 10°C (18°F) at nominal coil voltage, 4 pole |
| Temperature | Max. 105°C (221°F) |

NOTES

1. Other coil resistances and sensitivities are available upon request.
2. All values at 20°C (68°F).
3. Bifurcated crossbar, fine silver/gold plated contacts are recommended for dry circuit switching.
4. Epoxy sealed versions for automatic wave soldering and cleaning are available.
5. Specifications subject to change without notice.

GENERAL DATA

| | |
|---|---|
| Life Expectancy Mechanical Electrical | Minimum operations 500 million See typical contact life expectancy table |
| Operate Time | See typical operate and release time diagram |
| Release Time | See typical operate and release time diagram |
| Capacitance (typical) | Contact to contact: 2 pF Contact to coil: 2 pF Contact to frame: 30 pF |
| Bounce (typical) | At 10 mA contact current 3 ms at nominal coil voltage |
| Dielectric Strength (at sea level) | 1500 Vrms contact to coil 1000 Vrms all other points |
| Insulation Resistance | 1000 megohms min. at 25°C 500 VDC 50% RH |
| Dropout | Greater than 5% of nominal coil voltage |
| Ambient Temperature Operating Standard | At nominal coil voltage 2 and 4 pole type: -55°C (-67°F) to 80°C (176°F) 6 pole type: -55°C (-67°F) to 65°C (149°F) |
| Sensitive Storage | -55°C (-67°F) to 95°C (203°F) -55°C (-67°F) to 105°C (220°F) |
| Vibration | 0.062" DA at 5–55 Hz |
| Shock | 20 g |
| Enclosure | Polycarbonate |
| Terminals | Plug-in: gold or tin plated copper alloy PC: tin plated copper alloy |
| 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 | 23 to 35 grams |



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AZ420

RELAY ORDERING DATA — TWO POLE

| STANDARD DC VOLTAGE VERSION | | | | | | |
|-----------------------------|---------------------|-----------------------|------------------|--------------------------|--------------|---------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER | | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance ± 10% | Must Operate VDC | Unsealed | | Sealed |
| | | | | Plug-in/Solder Terminals | PC Terminals | PC Terminals |
| 3 | 5 | 14 | 2.25 | AZ420-21-* | AZ428-21-* | AZ2428-21-* |
| 6 | 10 | 52 | 4.5 | AZ420-15-* | AZ428-15-* | AZ2428-15-* |
| 12 | 19 | 185 | 9.0 | AZ420-1011-* | AZ428-1011-* | AZ2428-1011-* |
| 18 | 29 | 430 | 13.0 | AZ420-80-* | AZ428-80-* | AZ2428-80-* |
| 20 | 34 | 600 | 16.0 | AZ420-08-* | AZ428-08-* | AZ2428-08-* |
| 24 | 37 | 700 | 18.0 | AZ420-70-* | AZ428-70-* | AZ2428-70-* |
| 26 | 44 | 1,000 | 21.0 | AZ420-07-* | AZ428-07-* | AZ2428-07-* |
| 48 | 70 | 2,500 | 36.0 | AZ420-56-* | AZ428-56-* | AZ2428-56-* |
| 72 | 105 | 5,800 | 54.0 | AZ420-40-* | AZ428-40-* | AZ2428-40-* |
| 115 | 170 | 15,000 | 86.0 | AZ420-035-* | AZ428-035-* | AZ2428-035-* |

| B. SENSITIVE DC VOLTAGE VERSION (Pickup 100 mW) | | | | | | |
|---|---------------------|-----------------------|------------------|--------------------------|--------------|--------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER | | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance ± 10% | Must Operate VDC | Unsealed | | Sealed |
| | | | | Plug-in/Solder Terminals | PC Terminals | PC Terminals |
| 3 | 10 | 50 | 2.25 | AZ420-V15-* | AZ428-V15-* | AZ2428-V15-* |
| 6 | 20 | 200 | 4.5 | AZ420-V10-* | AZ428-V10-* | AZ2428-V10-* |
| 12 | 41 | 800 | 9.0 | AZ420-V70-* | AZ428-V70-* | AZ2428-V70-* |
| 24 | 81 | 3,200 | 18.0 | AZ420-V50-* | AZ428-V50-* | AZ2428-V50-* |
| 48 | 104 | 13,000 | 36.0 | AZ420-V04-* | AZ428-V04-* | AZ2428-V04-* |

| C. SENSITIVE DC CURRENT VERSION (Pickup 85 mW) | | | | | | |
|--|---------------------|-----------------------|-------------------|--------------------------|--------------|---------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER | | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance ± 10% | Must Operate (mA) | Unsealed | | Sealed |
| | | | | Plug-in/Solder Terminals | PC Terminals | PC Terminals |
| 12 | 44 | 1,000 | 8.5 | AZ420-C07-* | AZ428-C07-* | AZ2428-C07-* |
| 18 | 70 | 2,500 | 5.4 | AZ420-C56-* | AZ428-C56-* | AZ2428-C56-* |
| 29 | 102 | 5,000 | 4.1 | AZ420-C045-* | AZ428-C045-* | AZ2428-C045-* |
| 44 | 144 | 10,000 | 3.1 | AZ420-C408-* | AZ428-C408-* | AZ2428-C408-* |
| 51 | 170 | 15,000 | 2.4 | AZ420-C035-* | AZ428-C035-* | AZ2428-C035-* |

***ORDERING PROCEDURE:**
 To specify an AZ 420 series relay, combine the basic part number found in the Order Number section with a contact code found in the Contact Data Table.
EXAMPLE:
AZ420-21-40LUS:
 A. Basic number: **AZ420-21-** indicates two pole, plug-in/solder terminals, standard coil, 3 VDC, 14 ohms.
 B. Contact code: **40LUS** indicates bifurcated crossbar fine silver/gold plated contacts, Form C, UL and CUR approved.

CONTACT DATA TABLE

| Contact Material | Maximum Switched Load | Switching Range at 28 VDC or 115 VAC (Typical) | Contact Material | Maximum Switched Load | Switching Range at 28 VDC or 115 VAC (Typical) | Contact Material | Maximum Switched Load | Switching Range at 28 VDC or 115 VAC (Typical) |
|-----------------------------|---|--|-----------------------------------|---|--|--|---|--|
| 40LUS | | | 4WLUS | | | 4WHUS | | |
| Bifurcated crossbar contact | Max. Power: 56 W or 230 VA | Dry circuit to 2 Amps | Single crossbar contact | Max. power 100 W or 350 VA | 10 mA to 3 Amps | Single crossbar contact | Max. power 225 W or 870 VA | 100 mA to 7.5 Amps |
| Fine silver/gold plated | Max. current: 2 Amps Max. voltage: 150† VDC or 300 VAC | | Moveable: fine silver/gold plated | Max. current 3 Amps Max. voltage 150† VDC or 300 VAC | | Moveable: silver cadmium oxide/gold plated | Max. current: 7.5 Amps Max. voltage: 150† VDC or 300 VAC | |

† If switching voltage is greater than 30 VDC, special precautions must be taken. Contact the factory.



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RELAY ORDERING DATA — FOUR POLE

| A. STANDARD DC VOLTAGE VERSION | | | | | | |
|--------------------------------|---------------------|-----------------------|------------------|--------------------------|---------------|----------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER | | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance ± 10% | Must Operate VDC | Unsealed | | Sealed |
| | | | | Plug-in/Solder Terminals | PC Terminals | PC Terminals |
| 3 | 5 | 14 | 2.25 | AZ421-21-*— | AZ429-21-*— | AZ2429-21-*— |
| 6 | 10 | 52 | 4.5 | AZ421-15-*— | AZ429-15-*— | AZ2429-15-*— |
| 12 | 19 | 185 | 9.0 | AZ421-1011-*— | AZ429-1011-*— | AZ2429-1011-*— |
| 18 | 29 | 430 | 13.0 | AZ421-80-*— | AZ429-80-*— | AZ2429-80-*— |
| 20 | 34 | 600 | 16.0 | AZ421-08-*— | AZ429-08-*— | AZ2429-08-*— |
| 24 | 37 | 700 | 18.0 | AZ421-70-*— | AZ429-70-*— | AZ2429-70-*— |
| 26 | 44 | 1,000 | 21.0 | AZ421-07-*— | AZ429-07-*— | AZ2429-07-*— |
| 48 | 70 | 2,500 | 36.0 | AZ421-56-*— | AZ429-56-*— | AZ2429-56-*— |
| 72 | 105 | 5,800 | 54.0 | AZ421-40-*— | AZ429-40-*— | AZ2429-40-*— |
| 115 | 170 | 15,000 | 86.0 | AZ421-035-*— | AZ429-035-*— | AZ2429-035-*— |

| B. SENSITIVE DC VOLTAGE VERSION (Pickup 180 mW) | | | | | | |
|---|---------------------|-----------------------|------------------|--------------------------|--------------|---------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER | | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance ± 10% | Must Operate VDC | Unsealed | | Sealed |
| | | | | Plug-in/Solder Terminals | PC Terminals | PC Terminals |
| 3 | 8 | 30 | 2.25 | AZ421-V18-*— | AZ429-V18-*— | AZ2429-V18-*— |
| 6 | 15 | 110 | 4.5 | AZ421-V12-*— | AZ429-V12-*— | AZ2429-V12-*— |
| 12 | 30 | 450 | 9.0 | AZ421-V80-*— | AZ429-V80-*— | AZ2429-V80-*— |
| 24 | 61 | 1,800 | 18.0 | AZ421-V05-*— | AZ429-V05-*— | AZ2429-V05-*— |
| 48 | 124 | 7,500 | 36.0 | AZ421-V04-*— | AZ429-V04-*— | AZ2429-V04-*— |

| C. SENSITIVE DC CURRENT VERSION (Pickup 85 mW) | | | | | | |
|--|---------------------|-----------------------|-------------------|--------------------------|---------------|----------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER | | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance ± 10% | Must Operate (mA) | Unsealed | | Sealed |
| | | | | Plug-in/Solder Terminals | PC Terminals | PC Terminals |
| 19 | 44 | 1,000 | 13.0 | AZ421-C07-*— | AZ429-C07-*— | AZ2429-C07-*— |
| 30 | 70 | 2,500 | 8.3 | AZ421-C56-*— | AZ429-C56-*— | AZ2429-C56-*— |
| 44 | 102 | 5,000 | 6.2 | AZ421-C045-*— | AZ429-C045-*— | AZ2429-C045-*— |
| 64 | 144 | 10,000 | 4.5 | AZ421-C408-*— | AZ429-C408-*— | AZ2429-C408-*— |
| 75 | 170 | 15,000 | 3.5 | AZ421-C035-*— | AZ429-C035-*— | AZ2429-C035-*— |

*ORDERING PROCEDURE:

To specify an AZ 421 series relay, combine the basic part number found in the Order Number section with a contact code found in the Contact Data Table.

EXAMPLE: AZ421-21-10LUS:

A. Basic number: **AZ421-21-** indicates four pole, plugin/solder terminals, standard coil, 3 VDC, 14 ohms.

B. Contact code: **10LUS** indicates bifurcated crossbar fine silver/gold plated contacts, Form C, UL and CUR approved.

CONTACT DATA TABLE

| Contact Material | Maximum Switched Load | Switching Range at 28 VDC or 115 VAC (Typical) | Contact Material | Maximum Switched Load | Switching Range at 28 VDC or 115 VAC (Typical) | Contact Material | Maximum Switched Load | Switching Range at 28 VDC or 115 VAC (Typical) |
|-----------------------------|-----------------------------------|--|-----------------------------------|----------------------------------|--|--|-----------------------------------|--|
| 10LUS | | | 1WLUS | | | 1WHUS | | |
| Bifurcated crossbar contact | Max. Power: 56 W or 230 VA | Dry circuit to 2 Amps | Single crossbar contact | Max. power 100 W or 350 VA | 10 mA to 3 Amps | Single crossbar contact | Max. power 225 W or 870 VA | 100 mA to 7.5 Amps |
| Fine silver/gold plated | Max. current: 2 Amps | | Moveable: fine silver/gold plated | Max. current 3 Amps | | Moveable: silver cadmium oxide/gold plated | Max. current: 7.5 Amps | |
| | Max. voltage: 150† VDC or 300 VAC | | | Max. voltage 150† VDC or 300 VAC | | | Max. voltage: 150† VDC or 300 VAC | |

† If switching voltage is greater than 30 VDC, special precautions must be taken. Contact the factory.



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RELAY ORDERING DATA — SIX POLE

| A. STANDARD DC COIL VOLTAGE VERSION | | | | | |
|-------------------------------------|---------------------|----------------------------|------------------|---------------------------------|--------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC | Plug-in/ Solder Terminals | PC Terminals |
| 3 | 4.5 | 11 | 2.25 | AZ431-22-*— | AZ439-22-*— |
| 6 | 7 | 25 | 4.5 | AZ431-18-*— | AZ439-18-*— |
| 12 | 14 | 90 | 9.0 | AZ431-13-*— | AZ439-13-*— |
| 18 | 22 | 230 | 13.0 | AZ431-10-*— | AZ439-10-*— |
| 20 | 26 | 360 | 16.0 | AZ431-09-*— | AZ439-09-*— |
| 24 | 29 | 430 | 18.0 | AZ431-80-*— | AZ439-80-*— |
| 26 | 34 | 600 | 21.0 | AZ431-08-*— | AZ439-08-*— |
| 48 | 59 | 1,800 | 36.0 | AZ431-06-*— | AZ439-06-*— |
| 72 | 83 | 3,600 | 54.0 | AZ431-05-*— | AZ439-05-*— |
| 115 | 130 | 9,000 | 86.0 | AZ431-04-*— | AZ439-04-*— |

| B. SENSITIVE DC VOLTAGE VERSION (Pickup 250 mW) | | | | | |
|---|---------------------|----------------------------|------------------|---------------------------------|---------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate VDC | Plug-in/ Solder Terminals | PC Terminals |
| 3 | 6 | 20 | 2.25 | AZ431-V19-*— | AZ439-V19-*— |
| 6 | 13 | 80 | 4.5 | AZ431-V13-*— | AZ439-V13-*— |
| 12 | 26 | 320 | 9.0 | AZ431-V09-*— | AZ439-V09-*— |
| 24 | 50 | 1,200 | 18.0 | AZ431-V60-*— | AZ439-V60-*— |
| 48 | 68 | 5,200 | 36.0 | AZ431-V045-*— | AZ439-V045-*— |

| C. SENSITIVE DC CURRENT VERSION (Pickup 250 mW) | | | | | |
|---|---------------------|----------------------------|-------------------|---------------------------------|---------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER | |
| Nominal Coil VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Must Operate (mA) | Plug-in/ Solder Terminals | PC Terminals |
| 23 | 44 | 1,000 | 16.0 | AZ431-C07-*— | AZ439-C07-*— |
| 36 | 70 | 2,500 | 10.0 | AZ431-C56-*— | AZ439-C56-*— |
| 51 | 102 | 5,000 | 7.2 | AZ431-C045-*— | AZ439-C045-*— |
| 71 | 144 | 10,000 | 5.0 | AZ431-C408-*— | AZ439-C408-*— |
| 90 | 170 | 15,000 | 4.2 | AZ431-C035-*— | AZ439-C035-*— |

*ORDERING PROCEDURE:

To specify an AZ 431 series relay, combine the basic part number found in the Order Number section with a contact code found in the Contact Data Table.

EXAMPLE: AZ431-22-10LUS:

A. Basic number: **AZ431-22-** indicates six pole, plug-in/ solder terminals, standard coil, 3 VDC, 11 ohms.

B. Contact code: **10LUS** indicates bifurcated crossbar fine silver/gold plated contacts, Form C, UL and CUR approved.

CONTACT DATA TABLE

| Contact Material (Typical) | Maximum Switched Load | Switching Range at 28 VDC or 115 VAC |
|--|---|--------------------------------------|
| 10LUS | | |
| Bifurcated crossbar contact Fine silver/ gold plated | Max. Power: 56 W or 230 VA Max. current: 2 Amps Max. voltage: 150† VDC or 300 VAC | Dry circuit to 2 Amps |
| 1WLUS * | | |
| Single crossbar contact Moveable: fine silver/ gold plated | Max. power: 100 W or 350 VA Max. current: 3 Amps Max. voltage: 150† VDC or 300 VAC | 10 mA to 3 Amps |
| 1LUS ** | | |
| Single contact button Fine silver/ gold plated | Max. power: 56 W or 230 VA Max. current: 2 Amps Max. voltage: 150† VDC or 300 VAC | Low level to 2 Amps |
| 1WHUS * | | |
| Single crossbar contact Moveable: silver cadmium oxide/gold plated | Max. power: 225 W or 870 VA Max. current: 7.5 Amps Max. voltage: 150† VDC or 300 VAC | 100 mA to 7.5 Amps |
| 1HUS ** | | |
| Single contact button Silver cadmium oxide | Max. power: 140 W or 575 VA Max. current: 5 Amps Max. voltage: 150† VDC or 300 VAC | 100 mA to 5 Amps |

* Contact for Standard DC Voltage version only (Table A).

** Contact code for Sensitive DC Voltage version only (Table B) and sensitive DC current version.

† If switching voltage is greater than 30 VDC, special precautions must be taken. Contact the factory.



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TYPICAL CONTACT LIFE EXPECTANCY WHILE SWITCHING RESISTIVE LOADS

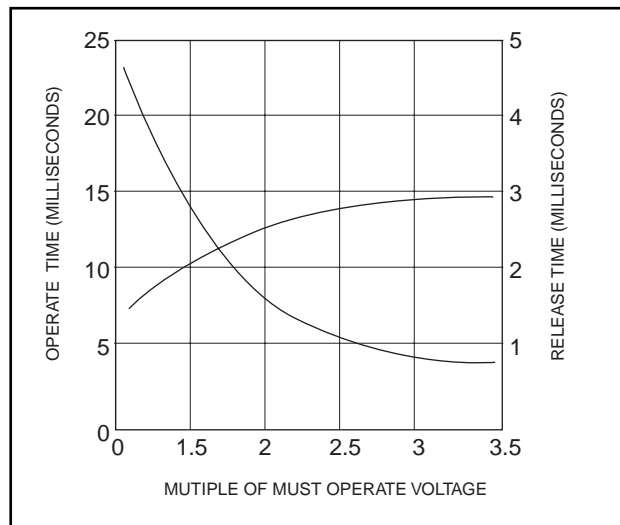
| CONTACT CODE | CURRENT | VOLTAGE | NUMBER OF OPERATIONS | |
|--------------|---------|---------|--------------------------|---------------------------|
| | | | STANDARD COIL ADJUSTMENT | SENSITIVE COIL ADJUSTMENT |
| —LUS | 1 MA | .1 VDC | 1 X 10 ⁸ | 1 X 10 ⁸ |
| | 10 MA | 6 VDC | 1 X 10 ⁸ | 1 X 10 ⁸ |
| | 2 A | 28 VDC | 6 X 10 ⁵ | 5 X 10 ⁵ |
| | 2 A | 115 VAC | 6 X 10 ⁵ | 5 X 10 ⁵ |
| —WLUS | 10 MA | 28 VDC | 2 X 10 ⁸ | 2 X 10 ⁸ |
| | 100 MA | 28 VDC | 2 X 10 ⁸ | 2 X 10 ⁸ |
| | 2 A | 28 VDC | 1.5 X 10 ⁶ | 6 X 10 ⁵ |
| | 2 A | 115 VAC | 1.5 X 10 ⁶ | 6 X 10 ⁵ |
| | 3 A | 28 VDC | 3 X 10 ⁵ | 2 X 10 ⁵ |
| | 3A | 115 VAC | 3 X 10 ⁵ | 2 X 10 ⁵ |
| —WHUS | 7.5 A | 28 VDC | 1 X 10 ⁵ | 1 X 10 ⁴ |
| | 7.5 A | 115 VDC | 1 X 10 ⁵ | 1 X 10 ⁴ |

NOTE: Relays operate at nominal coil voltage or 1.33 x must operate value for sensitive versions.

UL APPROVED CONTACT RATINGS

| CONTACT CODE | UL RATINGS |
|--------------|--------------------------------|
| 40LUS, 10LUS | 2 Amps at 26 VDC and 115 VAC |
| 4WLUS, 1WLUS | 3 Amps at 28 VDC and 115 VAC |
| 4WHUS, 1WHUS | 7.5 Amps at 28 VDC and 115 VAC |

TYPICAL OPERATE AND RELEASE TIME (STANDARD DC VOLTAGE VERSION)



- NOTES:
1. Coils not diode suppressed
 2. Switched battery voltage source



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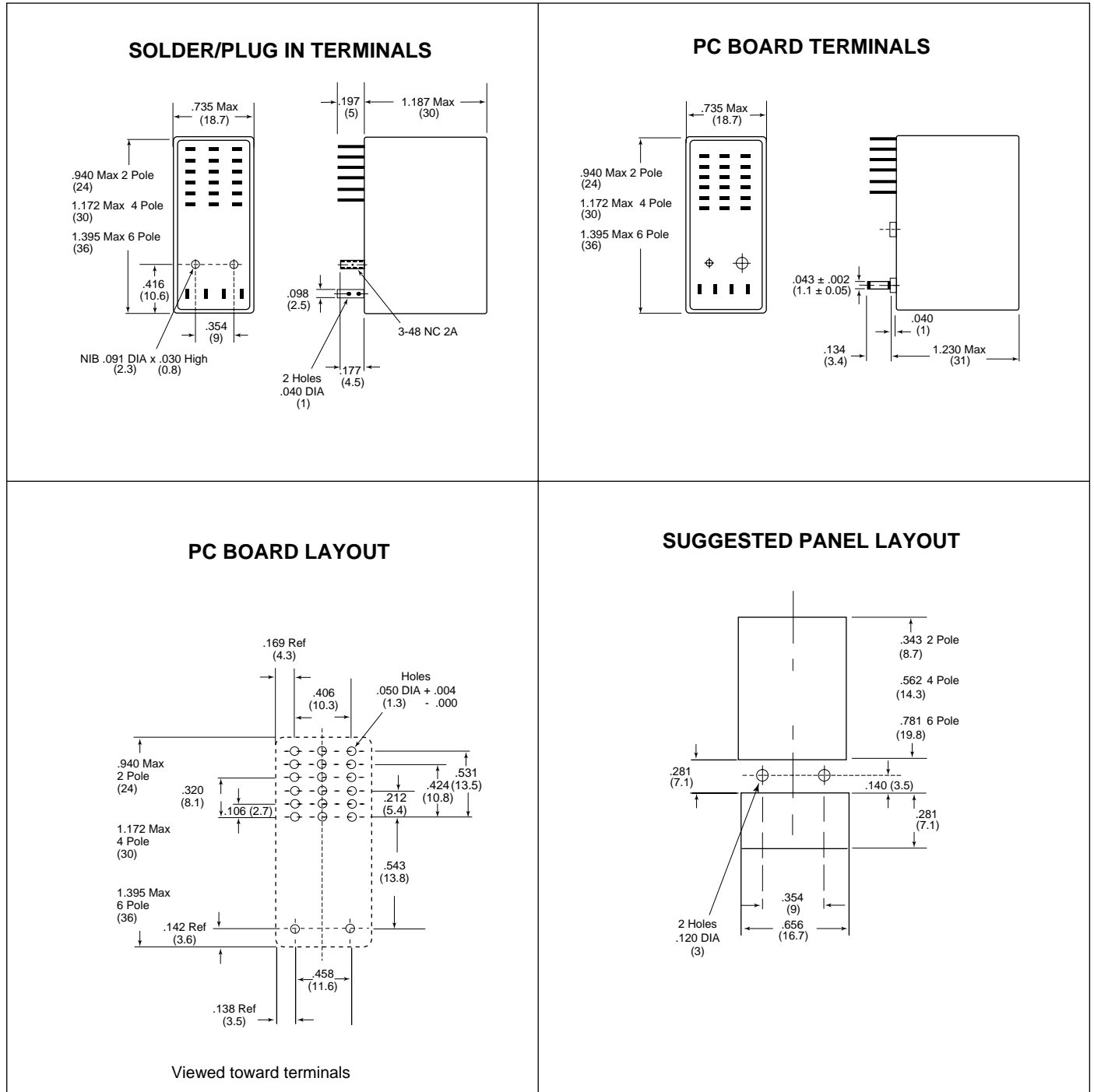
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MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"



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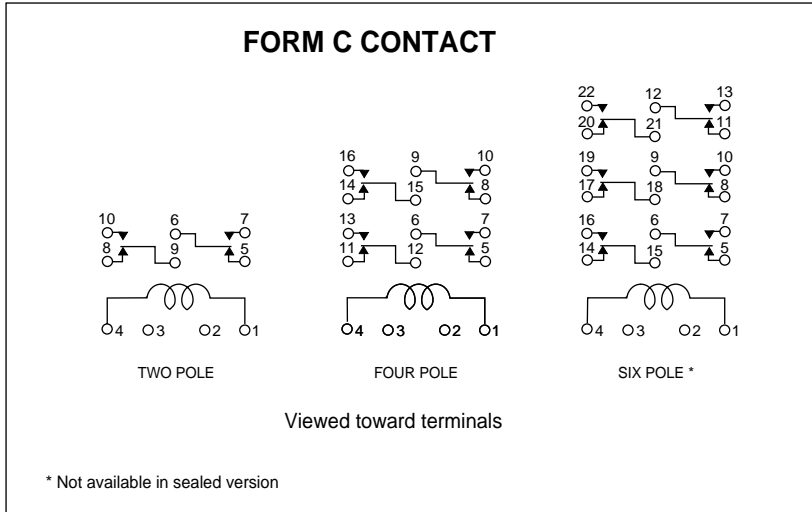
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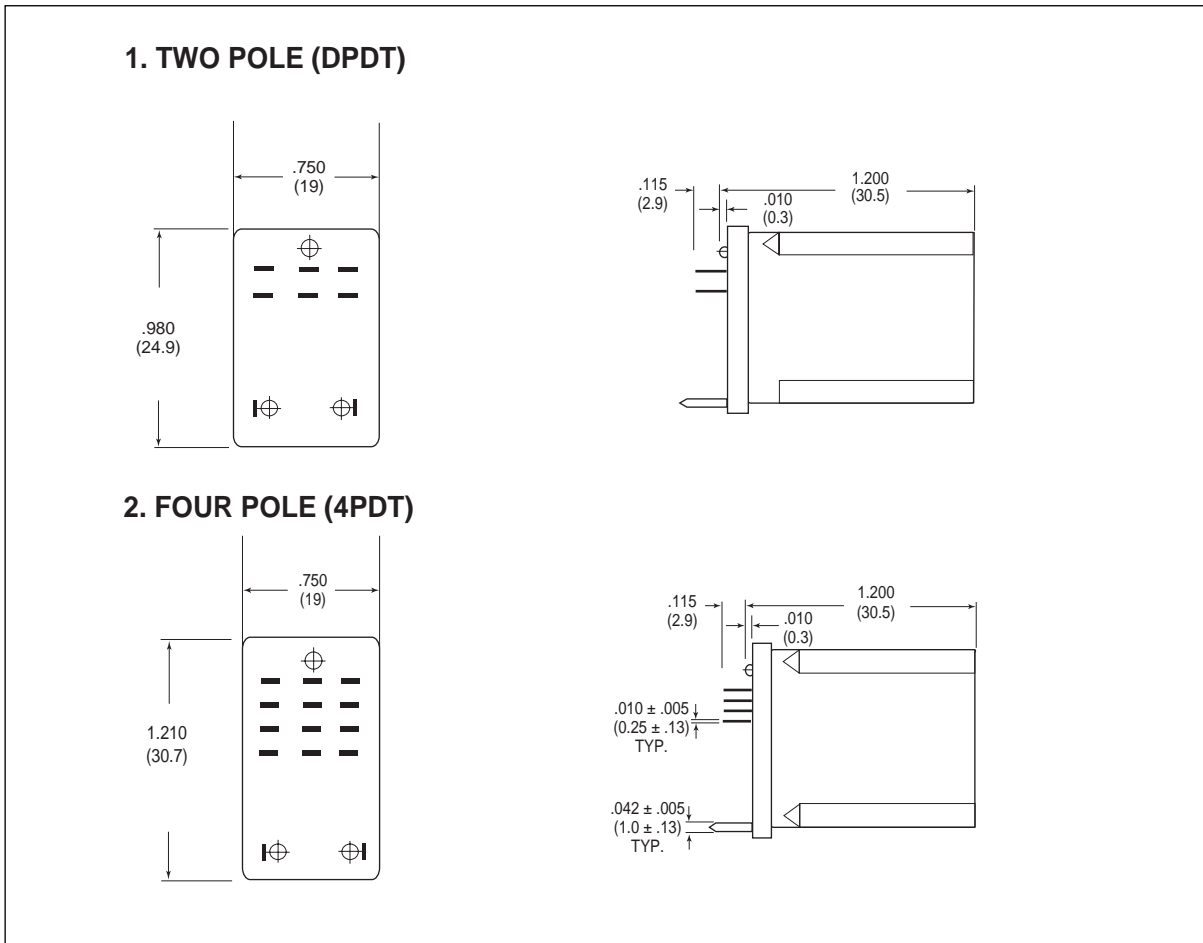
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WIRING DIAGRAM



MECHANICAL DATA AZ2428; 2429 Versions



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Sockets & Hardware for AZ420 Series



FEATURES

- International standard spacing — accommodates most cradle-type relays
- Unique knife-edge connector assures positive contact
- Unbreakable fiberglass filled polyester base material
- Spacing riser prevents flux contamination
- PC terminal spacing for 0.1 or 0.2 inch grids
- UL CUR file E171533

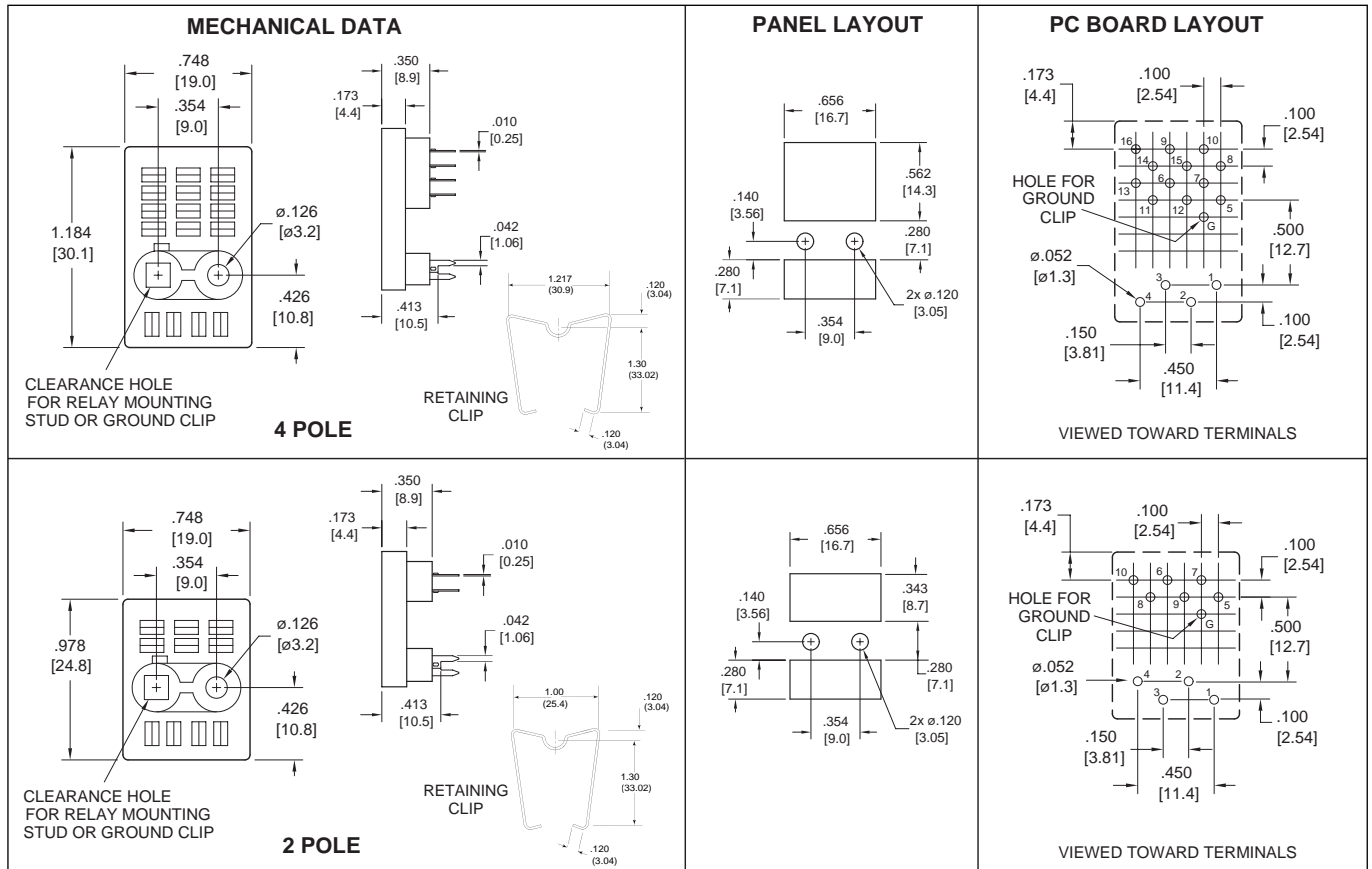
ORDERING DATA

| # OF POLES | SOCKET | RETAINING CLIPS |
|------------|----------|-----------------|
| 2 | ST140-A1 | ST140-1 |
| 4 | ST141-A1 | ST141-1 |

GENERAL DATA

| | |
|---|---|
| Dielectric Strength (at sea level) | 1500 Vrms between all elements |
| Insulation Resistance | 10 ¹² ohms minimum at 25°C, 100 VDC |
| Current Rating | 5 Amps maximum, continuous |
| Ambient Temperature | -55°C (-67°F) to 105°C (220°F) |
| Maximum Temperature | Machine soldering: 240°C (460°F) |
| Vibration | 10 g at 5–55 Hz (socket soldered into PC board with relay inserted and held in place with retainer) |
| Shock | 50 g any position (socket soldered into PC board with relay inserted and held in place with retainer) |
| Terminals | Combination type facilitates hand wiring or PC board mounting |
| Contact Material | Tin bronze silver plated |

MECHANICAL SPECIFICATIONS



Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"



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