

MTA406NPC Product Details

[Share](#) [Print](#) [Email](#)



MTA406NPC

TE Internal Number: 4-1437558-4

 **Active**

 [View 3D PDF](#)

Toggle Switches

 **Always EU RoHS/ELV Compliant**
(Statement of Compliance)

Product Highlights:

- MTA Series
- Four Pole - Double Throw Configuration (Pole-Throw)
- Current Rating = 6 A
- Mount Style = Through-Hole
- Termination Type = Printed Circuit, Vertical

[View all Features](#)

Quick Links

- ▶ [Pricing & Availability](#)
- ▶ [Search for Tooling](#)
- ▶ [Product Feature Selector](#)
- ▶ [Contact Us About This Product](#)

[Add to My Part List](#)

[Request Sample](#)

[Find Similar Products](#)

[Buy Product](#)

Documentation & Additional Information

Product Drawings:

- [TOGGLE SWITCH, MTA SERIES VERTICAL MOUNT](#) (PDF, English)

Catalog Pages/Data Sheets:

- [2-1773458-6_GREEN_SERIES_SWITCHES](#) (PDF, English)

Product Specifications:

- None Available

Application Specifications:

- None Available

Instruction Sheets:

- None Available

CAD Files: [\(CAD Format & Compression Information\)](#)

- [2D Drawing](#) (DXF, Version E)
- [3D Model](#) (IGES, Version E)
- [3D Model](#) (STEP, Version E)

[List all Documents](#)

Additional Information:

- [Product Line Information](#)

Additional Product Images:

- [Dimensional Drawing](#)

Related Products:

- [Tooling](#)

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- Series = MTA
- Termination Type = Printed Circuit, Vertical

Electrical Characteristics:

- Current Rating (A) = 6

Termination Features:

- Seal Type = Terminal Seal (Insert Molded)

Body Features:

- Mount Style = Through-Hole
- Bushing Style = Threaded
- Bushing Type = 1/4-40

Contact Features:

- Contact Plating = Gold Flash over Silver

Housing Features:

- Toggle Style = Baton Long
- Toggle Length (mm [in]) = 10.40 [0.410]
- Process Sealed = No
- UL Flammability Rating = UL 94V-0

Configuration Features:

- Configuration (Pole-Throw) = Four Pole - Double Throw
- [Operating Function](#) = On None On

Industry Standards:

- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C

| | |
|--|---|
| | <ul style="list-style-type: none">• RoHS/ELV Compliance History = Always was RoHS compliant <p>Other:</p> <ul style="list-style-type: none">• Brand = Alcoswitch• Comment = UL available when ordering - consult factory. |
|--|---|

Corporate Information

About TE
Investors
News Room
Supplier Portal
Careers
Terms & Conditions
Privacy Policy

Quick Links

Distributor Inventory
Product Cross Reference
Documents & Drawings
Product Compliance Support Center
Site Map

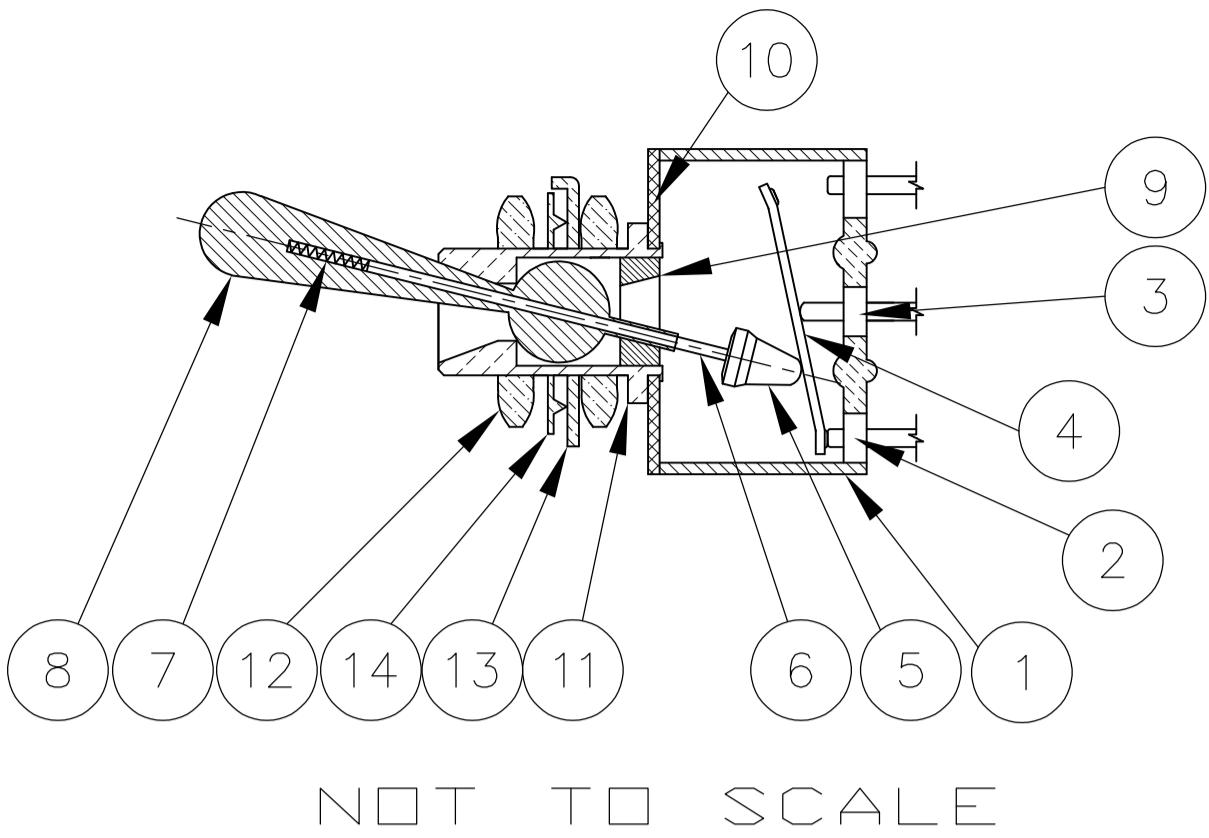
Customer Support

Email or Chat With Us
Find a Phone Number
Knowledge Base
Manage Your Account

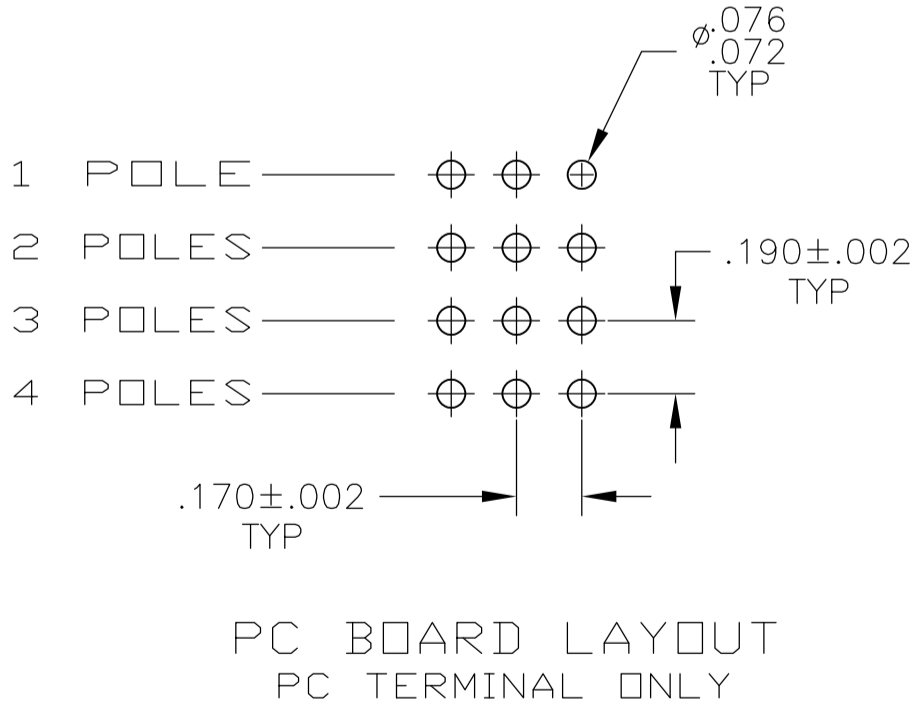
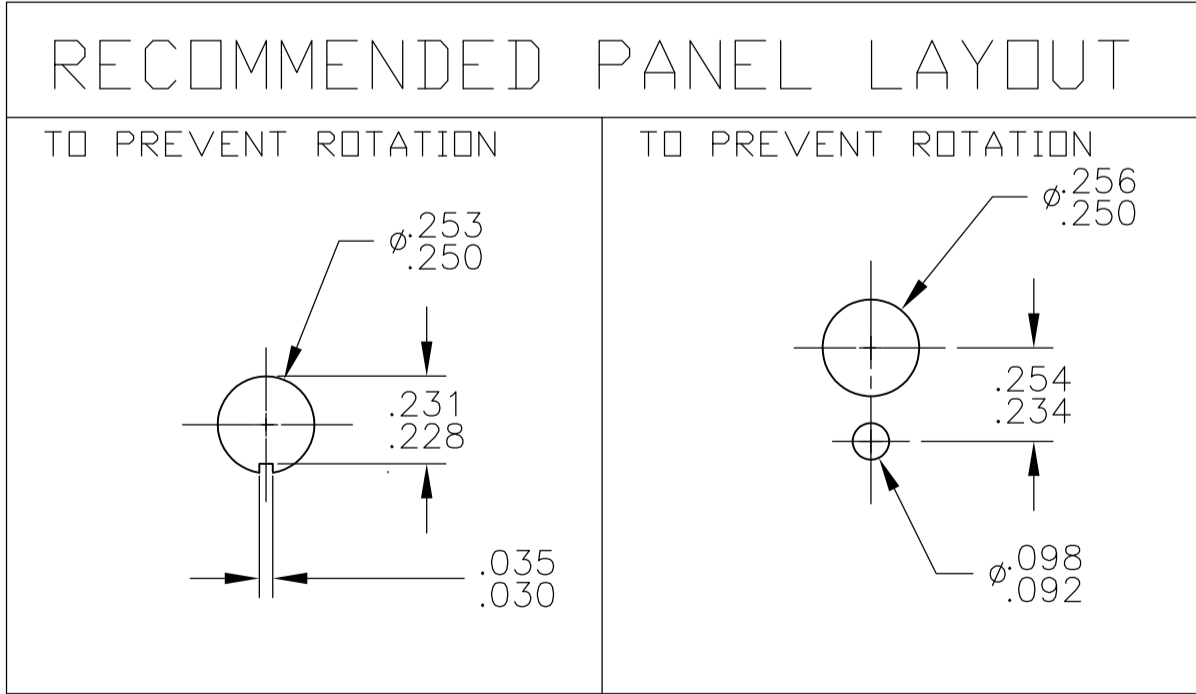
Keep Me Informed



| | | Materials | |
|-----|---------------------------|------------------------------|---|
| No. | Component name | Base material | Finish |
| 1 | Housing | High temp, UL 94V-0, green | |
| 2 | End terminal | silver clad copper alloy | 5 microinches min. gold |
| 3 | Center terminal | copper alloy | 5 microinches min. gold |
| 4 | Rocker contact | silver clad copper alloy | 5 microinches min. gold |
| 5 | Actuator | Phenol resin, UL94 HB, black | |
| 6 | Plunger | stainless steel | |
| 7 | Spring | music wire | |
| 8 | Toggle | brass | chrome or nickel |
| 9 | Retainer | Polyamide, UL94 HB, black | |
| 10 | Frame | cold rolled steel | zinc or nickel |
| 11 | Bushing | brass | 100 microinches min. nickel over 10 microinches min. copper |
| 12 | Mounting nuts (2) | brass | 200 microinches min. bright nickel |
| 13 | Locating ring | cold rolled steel | zinc or nickel |
| 14 | Internal tooth lockwasher | steel | zinc or nickel |



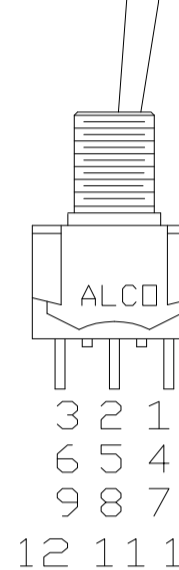
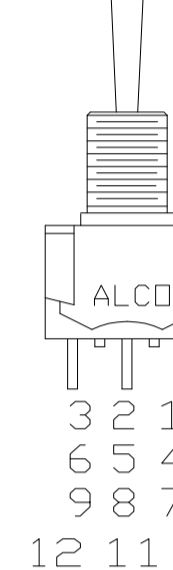
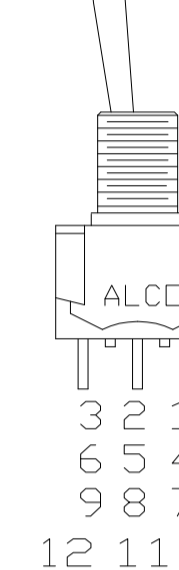
| Specifications-see note 3 | | | | |
|---------------------------|--------------------------------|------------|------------|-----------|
| Current rating UL & CSA | 6A @ 125 VAC (resistive) | | | |
| | 3A @ 250 VAC (resistive) | | | |
| | 4A @ 28 VDC (resistive) | | | |
| Termination resistance | 20 milliohms max @ 2–4 VDC, 1A | | | |
| Insulation resistance | 1,000 megohms min. | | | |
| Withstanding voltage | 1,000 VAC | | | |
| Travel | 24 +/–6 degrees | | | |
| Actuation force | .05 to 1.5 kgf | | | |
| Operating temperature | –20C to +85C | | | |
| Storage temperature | –40C to +85C | | | |
| Contact timing | break before make | | | |
| Terminal seal | epoxy or insert molded | | | |
| | | | | |
| Durability | Parameter | 2 Position | 3 Position | Momentary |
| | mechanical (no load) | 150,000 | 100,000 | 80,000 |
| | 250 VAC (3A resistive) | 80,000 | 60,000 | 60,000 |
| | 125 VAC (6A resistive) | 80,000 | 60,000 | 60,000 |
| | 28 VDC (4A resistive) | 60,000 | 50,000 | 40,000 |





- NOTES:
1. TERMINAL NUMBERS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON THE SWITCHES.
 2. EACH SWITCH SUPPLIED WITH THE FOLLOWING MOUNTING HARDWARE:
 - (2) 1/4-40 UNS-2B HEX NUTS
 - (1) INTERNAL TOOTH LOCKWASHER
 - (1) LOCATING RING

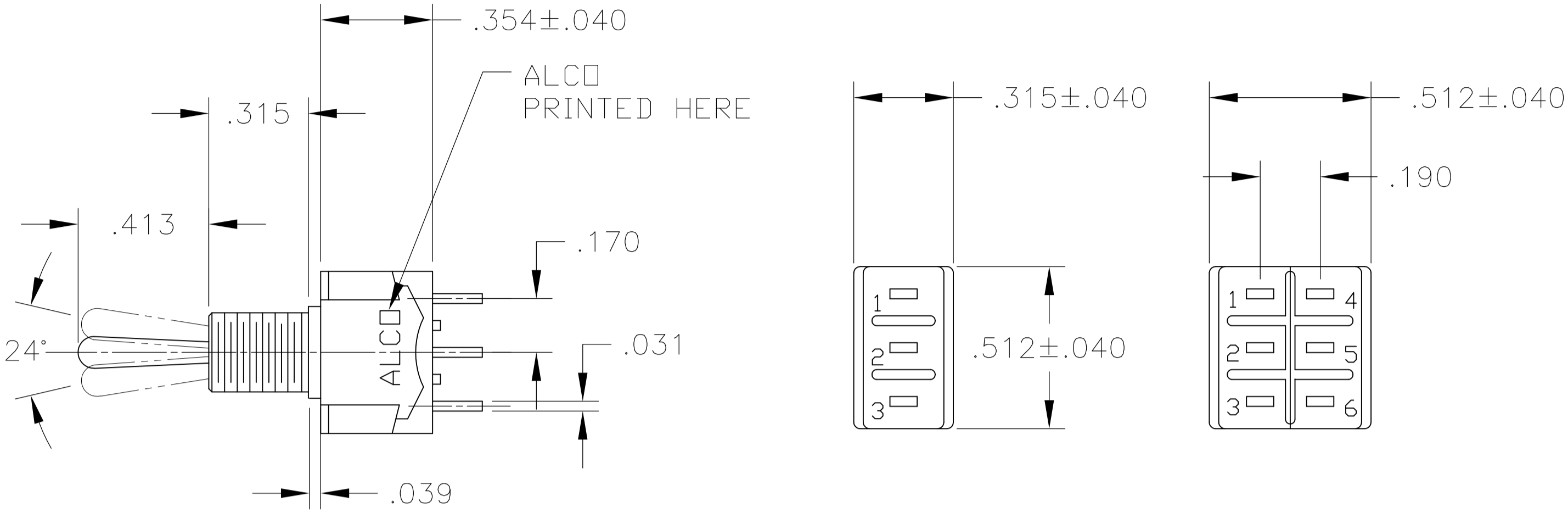
6. CUSTOMER INSTALLED EXTERNAL JUMPER BETWEEN TERMINALS 2 AND 4 REQUIRED FOR 1 POLE 3 THROW FUNCTION.

 OBSOLETE

| Part Number | Alco Model | Poles | Throws | Function | Terminal |  |  |  | Comments |
|-------------|------------|-------|--------|---------------|----------|---|---|---|----------|
| 4-1437558-8 | MTA406PPC | 4 | 2 | ON OFF ON | PC | 2-3, 5-6, 8-9, 11-12 | Off | 2-1, 5-4, 8-7, 11-10 | |
| 4-1437558-7 | MTA406PAPC | 2 | 3 | ON ON ON | PC | 5-6, 11-12 | 5-3, 11-9 | 5-1, 11-7 | note 7 |
| 4-1437558-6 | MTA406PA | 2 | 3 | ON ON ON | Wire lug | 5-6, 11-12 | 5-3, 11-9 | 5-1, 11-7 | note 7 |
| 4-1437558-5 | MTA406P | 4 | 2 | ON OFF ON | Wire lug | 2-3, 5-6, 8-9, 11-12 | Off | 2-1, 5-4, 8-7, 11-10 | |
| 4-1437558-4 | MTA406NPC | 4 | 2 | ON ON | PC | 2-3, 5-6, 8-9, 11-12 | --- | 2-1, 5-4, 8-7, 11-10 | |
| 4-1437558-3 | MTA406N | 4 | 2 | ON ON | Wire lug | 2-3, 5-6, 8-9, 11-12 | --- | 2-1, 5-4, 8-7, 11-10 | |
| 4-1437558-2 | MTA306HPC | 3 | 2 | ON OFF(ON) | PC | 2-3, 5-6, 8-9 | Off | 2-1, 5-4, 8-7 | |
| 4-1437558-1 | MTA306H | 3 | 2 | ON OFF(ON) | Wire lug | 2-3, 5-6, 8-9 | Off | 2-1, 5-4, 8-7 | |
| 4-1437558-0 | MTA306FPC | 3 | 2 | ON (ON) | PC | 2-3, 5-6, 8-9 | --- | 2-1, 5-4, 8-7 | |
| 3-1437558-9 | MTA306F | 3 | 2 | ON (ON) | Wire lug | 2-3, 5-6, 8-9 | --- | 2-1, 5-4, 8-7 | |
| 3-1437558-8 | MTA306EPC | 3 | 2 | ON OFF ON | PC | 2-3, 5-6, 8-9 | Off | 2-1, 5-4, 8-7 | |
| 3-1437558-7 | MTA306E | 3 | 2 | ON OFF ON | Wire lug | 2-3, 5-6, 8-9 | Off | 2-1, 5-4, 8-7 | |
| 3-1437558-6 | MTA306DPC | 3 | 2 | ON ON | PC | 2-3, 5-6, 8-9 | --- | 2-1, 5-4, 8-7 | |
| 3-1437558-5 | MTA306D | 3 | 2 | ON ON | Wire lug | 2-3, 5-6, 8-9 | --- | 2-1, 5-4, 8-7 | |
| 3-1437558-4 | MTA206TPC | 2 | 2 | ON OFF(ON) | PC | 2-3, 5-6 | OFF | 2-1, 5-4 | |
| 3-1437558-3 | MTA206TA | 1 | 3 | ON ON (ON) | Wire lug | 5-6 | 5-3 | 5-1 | note 6 |
| 3-1437558-2 | MTA206T | 2 | 2 | ON OFF(ON) | Wire lug | 2-3, 5-6 | OFF | 2-1, 5-4 | |
| 3-1437558-1 | MTA206SPC | 2 | 2 | (ON) OFF (ON) | PC | 2-3, 5-6 | OFF | 2-1, 5-4 | |
| 3-1437558-0 | MTA206SA | 1 | 3 | (ON) ON (ON) | Wire lug | 5-6 | 5-3 | 5-1 | note 6 |
| 2-1437558-9 | MTA206S | 2 | 2 | (ON) OFF (ON) | Wire lug | 2-3, 5-6 | OFF | 2-1, 5-4 | |
| 2-1437558-8 | MTA206RPC | 2 | 2 | ON (ON) | PC | 2-3, 5-6 | --- | 2-1, 5-4 | |
| 2-1437558-7 | MTA206R | 2 | 2 | ON (ON) | Wire lug | 2-3, 5-6 | --- | 2-1, 5-4 | |
| 2-1437558-5 | MTA206PPC | 2 | 2 | ON OFF ON | PC | 2-3, 5-6 | OFF | 2-1, 5-4 | |
| 2-1437558-4 | MTA206PAPC | 1 | 3 | ON ON ON | PC | 5-6 | 5-3 | 5-1 | note 6 |
| 2-1437558-3 | MTA206PA | 1 | 3 | ON ON ON | Wire lug | 5-6 | 5-3 | 5-1 | note 6 |
| 2-1437558-2 | MTA206P | 2 | 2 | ON OFF ON | Wire lug | 2-3, 5-6 | OFF | 2-1, 5-4 | |
| 2-1437558-1 | MTA206NPC | 2 | 2 | ON ON | PC | 2-3, 5-6 | --- | 2-1, 5-4 | |
| 2-1437558-0 | MTA206N | 2 | 2 | ON ON | Wire lug | 2-3, 5-6 | --- | 2-1, 5-4 | |
| 1-1437558-9 | MTA106HPC | 1 | 2 | ON OFF(ON) | PC | 2-3 | OFF | 2-1 | |
| 1-1437558-8 | MTA106H | 1 | 2 | ON OFF(ON) | Wire lug | 2-3 | OFF | 2-1 | |
| 1-1437558-7 | MTA106GPC | 1 | 2 | (ON) OFF (ON) | PC | 2-3 | OFF | 2-1 | |
| 1-1437558-6 | MTA106G | 1 | 2 | (ON) OFF (ON) | Wire lug | 2-3 | OFF | 2-1 | |
| 1-1437558-5 | MTA106FPC | 1 | 2 | ON (ON) | PC | 2-3 | --- | 2-1 | |
| 1-1437558-4 | MTA106F | 1 | 2 | ON (ON) | Wire lug | 2-3 | --- | 2-1 | |
| 1-1437558-3 | MTA106EPC | 1 | 2 | ON OFF ON | PC | 2-3 | Off | 2-1 | |
| 1-1437558-2 | MTA106E | 1 | 2 | ON OFF ON | Wire lug | 2-3 | Off | 2-1 | |
| 1-1437558-1 | MTA106DPC | 1 | 2 | ON ON | PC | 2-3 | --- | 2-1 | |
| 1571616-1 | MTA106DUL | 1 | 2 | ON ON | Wire lug | 2-3 | --- | 2-1 | |
| 1-1437558-0 | MTA106D | 1 | 2 | ON ON | Wire lug | 2-3 | --- | 2-1 | |

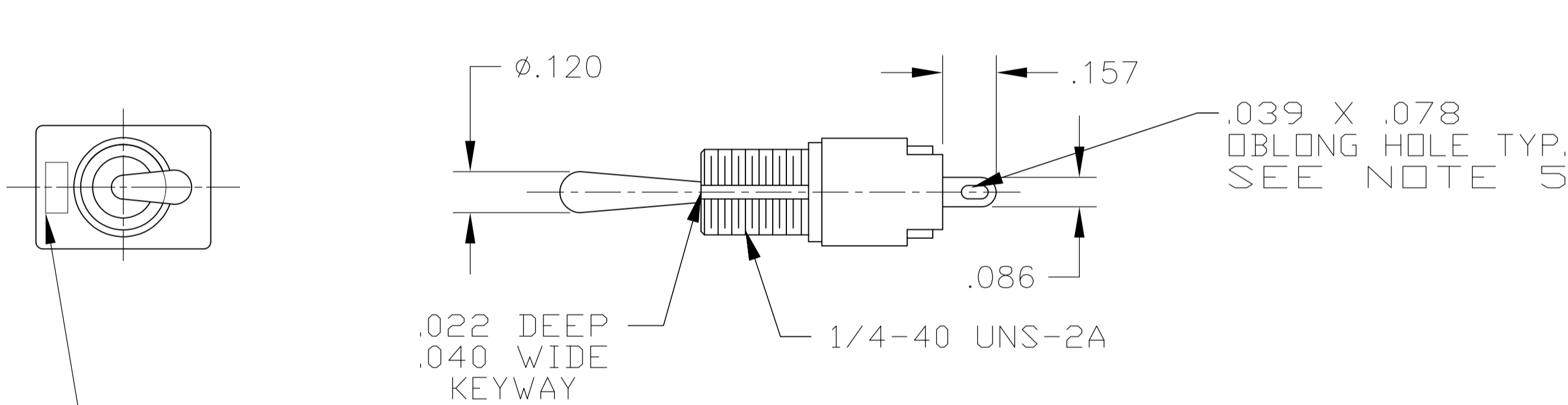
| | | | | | |
|---|--|---|----------|---|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWG: M.BINNER | 290DEC03 |  TE Connectivity | |
| | | CHK: M.ZITTO | 290DEC03 | | |
| DIMENSIONS: | | TOLERANCES UNLESS OTHERWISE SPECIFIED: | | NAME | TOGGLE SWITCH, MTA SERIES VERTICAL MOUNT |
| INCHES | | M.M | | | |
|  | | M.ZITTO | | | |
| 0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± .005 4 PLC ± ± - A ANGLES B FINISH C - | | PRODUCT SPEC APPLICATION SPEC - WEIGHT - | | | |
| MATERIAL - | | FINISH - | | SIZE | CAGE CODE |
| | | | | DRAWING NO | RESTRICTED TO |
| | | | | A1 00779 | 1-1437558-0 |
| | | | | CAGE CODE | - |
| | | | | CUSTOMER DRAWING | |
| | | | | SCALE | 2:1 |
| | | | | SHEET | 1 of 3 |
| | | | | REV | E3 |

| LOC | | DIST | | REVISIONS | | | | | |
|-----|--|------|--|-----------|-----|-------------|------|-----|------|
| AD | | 00 | | P | LTR | DESCRIPTION | DATE | DWN | APVD |
| | | | | | — | SEE SHEET 1 | — | — | — |

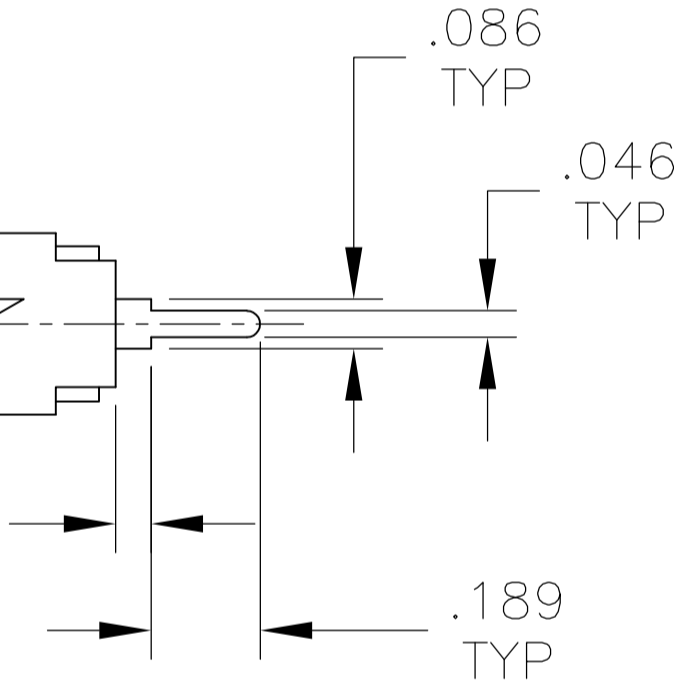
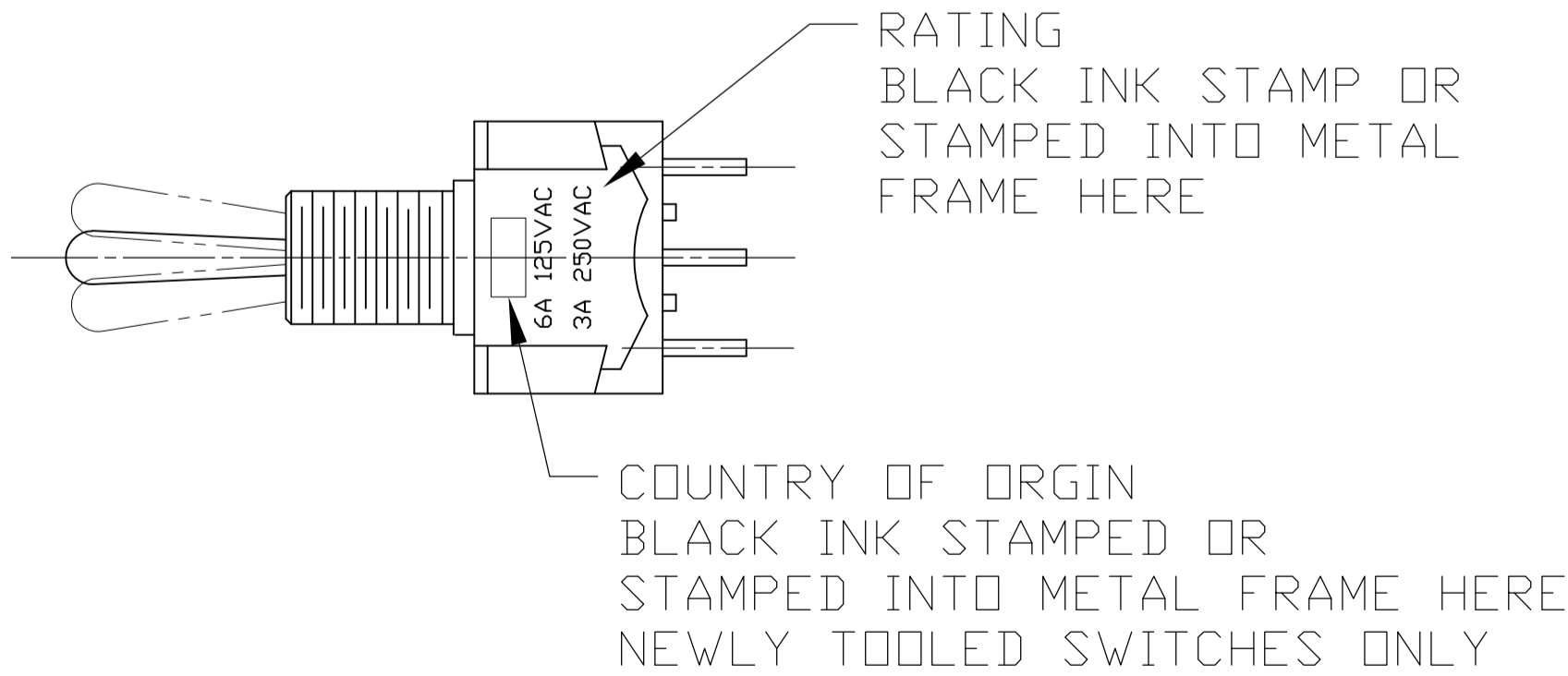


MTA-106



MTA-206



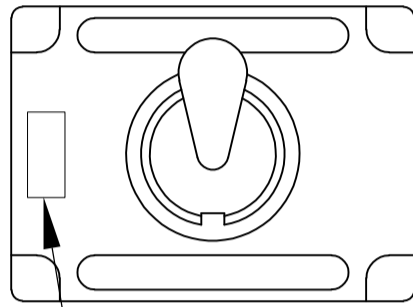
WIRE LUG TERMINAL



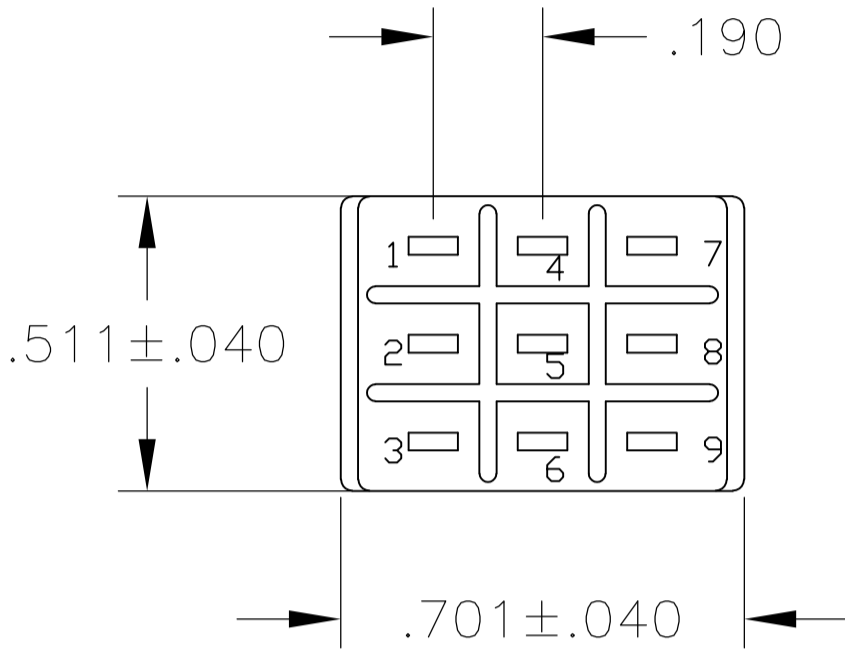
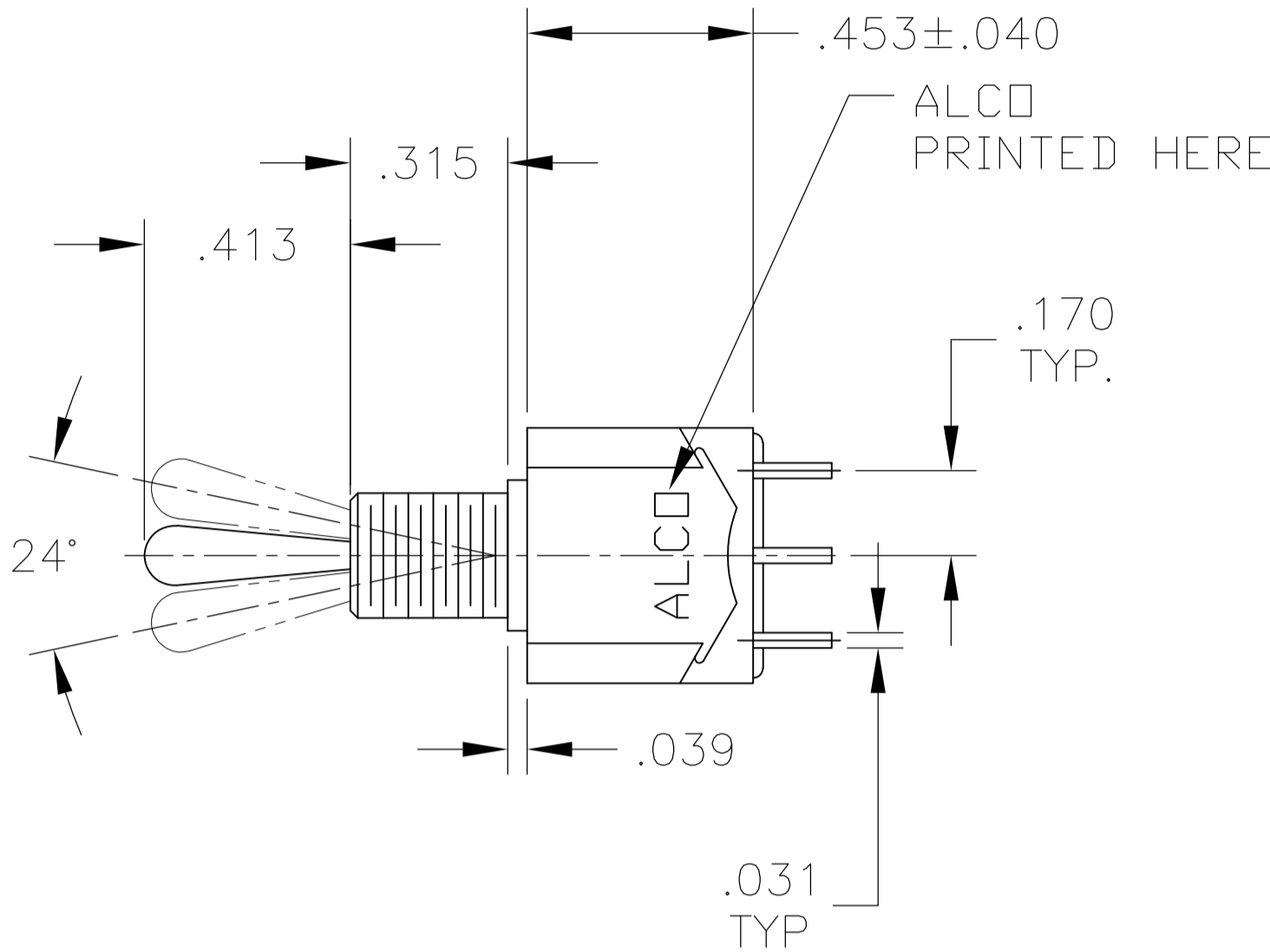
PC TERMINAL

| | | | | |
|---|-------------|-----------------------------|---|---------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN: M. BINNER 29DEC03 |  TE Connectivity | |
| | | CHK: M. ZITTO 29DEC03 | | |
| DIMENSIONS: INCHES | | APPROV: M. ZITTO 29DEC03 | NAME TOGGLE SWITCH, MTA SERIES VERTICAL MOUNT | RESTRICTED TO |
|  | | PRODUCT SPEC | | |
| | | APPLICATION SPEC | | |
| | | SIZE A1 | | |
| MATERIAL - | FINISH - | WEIGHT - | REV E3 | |

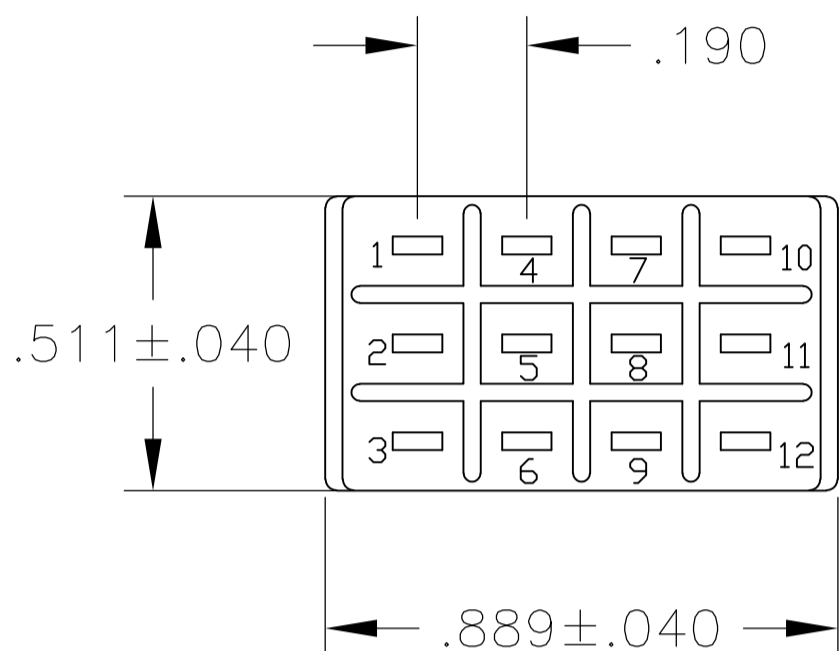
| LOC | DIST | REVISIONS | | | | |
|-----|------|-----------|-----|-------------|------|-----|
| AD | 00 | REV | LTR | DESCRIPTION | DATE | DWN |
| | | | | SEE SHEET 1 | | |



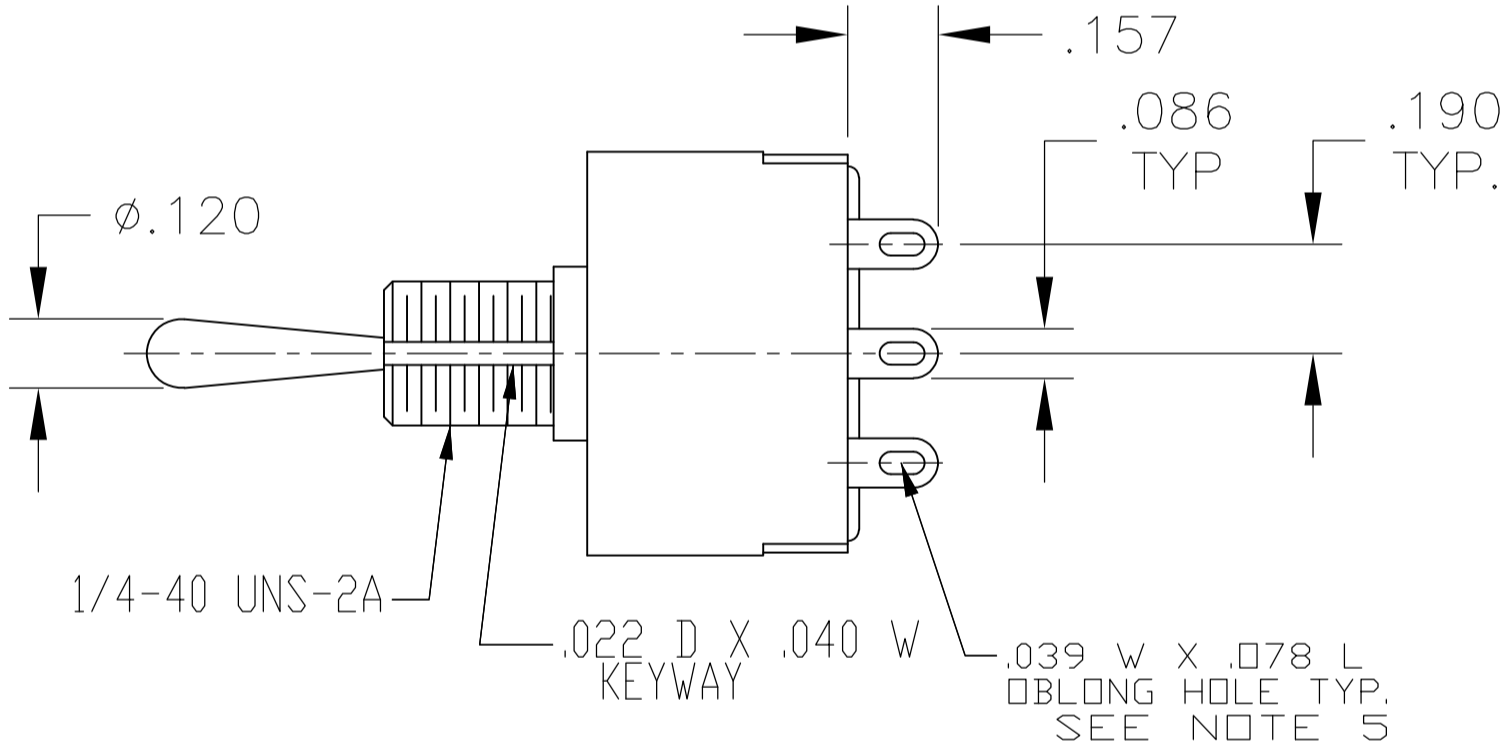
COUNTRY OF ORIGIN
STAMPED HERE
EXISTING
SWITCHES ONLY



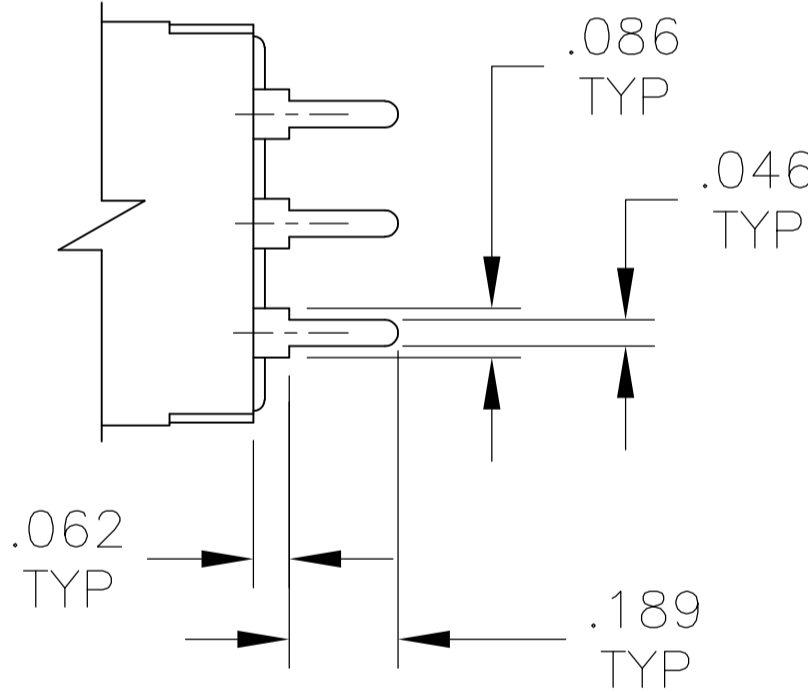
MTA-306



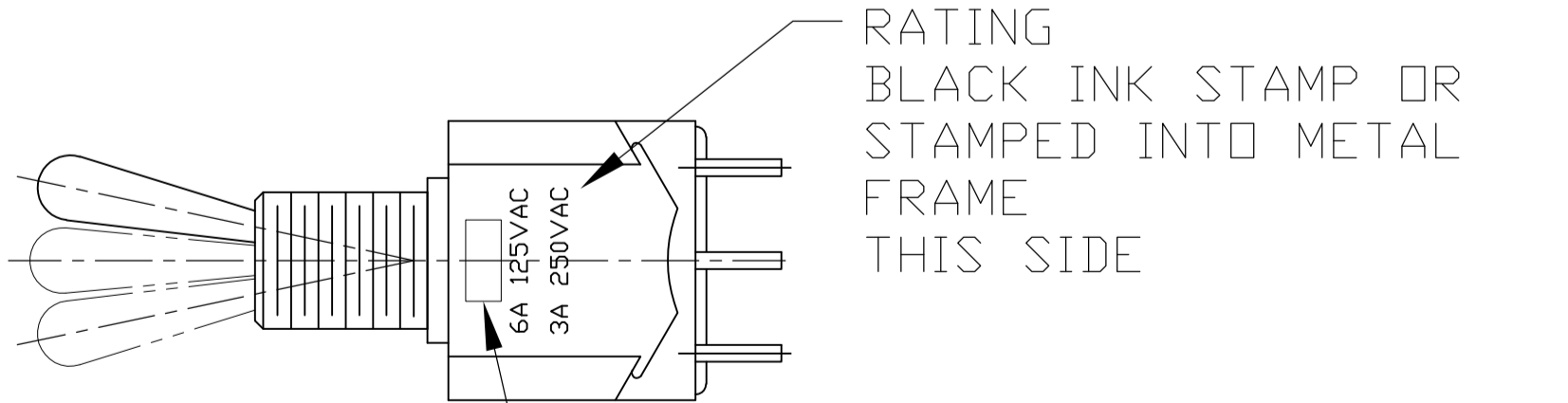
MTA-406



WIRE LUG TERMINAL



PC TERMINAL



RATING
BLACK INK STAMP OR
STAMPED INTO METAL
FRAME
THIS SIDE

COUNTRY OF ORIGIN
BLACK INK STAMPED OR
STAMPED INTO METAL FRAME HERE
NEWLY TOOLED SWITCHES ONLY

| | | | | |
|--|---|-----------------------------|-----------------|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN M. BINNER 29DEC03 | TE Connectivity | |
| | | CHK M. ZITTO 29DEC03 | | |
| DIMENSIONS: INCHES | TOLERANCES UNLESS OTHERWISE SPECIFIED: | AP'D M. ZITTO 29DEC03 | NAME | TOGGLE SWITCH, MTA SERIES VERTICAL MOUNT |
| | 0. PLC ± - 1. PLC ± - 2. PLC ± - 3. PLC ± .005 4. PLC ± - ANGLES ± - | PRODUCT SPEC | SIZE | CAGE CODE |
| | | APPLICATION SPEC | DRAWING NO | RESTRICTED TO |
| MATERIAL | FINISH | WEIGHT | A1 00779 | 1-1437558-0 |
| CUSTOMER DRAWING | | SCALE | 1:1 | SHEET 3 OF 3 REV E3 |