

8

7

6

5

4

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1

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LOC

DIST

AD

00

REVISED

PER

ECO-14-010935

DATE

18JUL2014

DWN

NK

APVD

RH

| 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                                              |

NOT TO SCALE

| 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    |

RECOMMENDED HOLE LAYOUT

TO PREVENT ROTATION

TO PREVENT ROTATION

1 POLE

2 POLE

3 POLE

4 POLE

PC BOARD LAYOUT  
PC TERMINAL ONLY

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) 15/32-32 UNS-2B HEX NUTS

(1) INTERNAL TOOTH LOCKWASHER

(1) LOCATING RING

5. WIRE LUG CONTACTS WILL ACCEPT 2 #20 AWG SOLID OR STRANDED WIRES.

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

7

OBSOLETE

8. LASER MARKING USED FOR PARTS.

| Part Number | Alco Model | Poles | Throws | Function      | Terminal | A    |                      |     |                      | Comments |
|-------------|------------|-------|--------|---------------|----------|------|----------------------|-----|----------------------|----------|
| 3-1437559-2 | MTG406P    | 4     | 2      | ON OFF ON     | Wire lug | .453 | 2-3, 5-6, 8-9, 11-12 | Off | 2-1, 5-4, 8-7, 11-10 |          |
| 3-1437559-3 | MTG426N    | 4     | 2      | ON ON         | Wire lug | .685 | 2-3, 5-6, 8-9, 11-12 | --- | 2-1, 5-4, 8-7, 11-10 |          |
| 3-1437559-1 | MTG406N    | 4     | 2      | ON ON         | Wire lug | .453 | 2-3, 5-6, 8-9, 11-12 | --- | 2-1, 5-4, 8-7, 11-10 |          |
| 2-1437559-9 | MTG306E    | 3     | 2      | ON OFF ON     | Wire lug | .453 | 2-3, 5-6, 8-9        | Off | 2-1, 5-4, 8-7        |          |
| 3-1437559-0 | MTG326D    | 3     | 2      | ON ON         | Wire lug | .685 | 2-3, 5-6, 8-9        | --- | 2-1, 5-4, 8-7        |          |
| 2-1437559-8 | MTG306D    | 3     | 2      | ON ON         | Wire lug | .453 | 2-3, 5-6, 8-9        | --- | 2-1, 5-4, 8-7        |          |
| 2-1437559-7 | MTG226PA   | 1     | 3      | ON ON ON      | Wire lug | .685 | 5-6                  | 5-3 | 5-1                  | note 6   |
| 2-1437559-6 | MTG226P    | 2     | 2      | ON OFF ON     | Wire lug | .685 | 2-3, 5-6             | Off | 2-1, 5-4             |          |
| 2-1437559-5 | MTG226N    | 2     | 2      | ON ON         | Wire lug | .685 | 2-3, 5-6             | --- | 2-1, 5-4             |          |
| 2-1437559-4 | MTG206T    | 2     | 2      | ON OFF(ON)    | Wire lug | .453 | 2-3, 5-6             | Off | 2-1, 5-4             |          |
| 2-1437559-3 | MTG206S    | 2     | 2      | (ON) OFF (ON) | Wire lug | .453 | 2-3, 5-6             | Off | 2-1, 5-4             |          |
| 2-1437559-2 | MTG206R    | 2     | 2      | ON (ON)       | Wire lug | .453 | 2-3, 5-6             | --- | 2-1, 5-4             |          |
| 2-1437559-1 | MTG206PA   | 1     | 3      | ON ON ON      | Wire lug | .453 | 5-6                  | 5-3 | 5-1                  | note 6   |
| 2-1437559-0 | MTG206P    | 2     | 2      | ON OFF ON     | Wire lug | .453 | 2-3, 5-6             | Off | 2-1, 5-4             |          |
| 1-1437559-9 | MTG206NPC  | 2     | 2      | ON ON         | PC       | .453 | 2-3, 5-6             | --- | 2-1, 5-4             |          |
| 1-1437559-8 | MTG206N    | 2     | 2      | ON ON         | Wire lug | .453 | 2-3, 5-6             | --- | 2-1, 5-4             |          |
| 1-1437559-0 | MTG126G    | 1     | 2      | (ON) OFF (ON) | Wire lug | .685 | 2-3                  | Off | 2-1                  |          |
| 1-1437559-7 | MTG126E    | 1     | 2      | ON OFF ON     | Wire lug | .685 | 2-3                  | Off | 2-1                  |          |
| 1-1437559-6 | MTG126D    | 1     | 2      | ON ON         | Wire lug | .685 | 2-3                  | --- | 2-1                  |          |
| 1-1437559-5 | MTG106H    | 1     | 2      | ON OFF(ON)    | Wire lug | .453 | 2-3                  | Off | 2-1                  |          |
| 1-1437559-4 | MTG106G    | 1     | 2      | (ON) OFF (ON) | Wire lug | .453 | 2-3                  | Off | 2-1                  |          |
| 1-1437559-3 | MTG106F    | 1     | 2      | ON (ON)       | Wire lug | .453 | 2-3                  | --- | 2-1                  |          |
| 1-1437559-2 | MTG106E    | 1     | 2      | ON OFF ON     | Wire lug | .453 | 2-3                  | Off | 2-1                  |          |
| 1-1437559-1 | MTG106D    | 1     | 2      | ON ON         | Wire lug | .453 | 2-3                  | --- | 2-1                  |          |

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DWN

M. BINNER

29DEC03

CHK

M. ZITTO

29DEC03

APVD

M. ZITTO

29DEC03

NAME

TOGGLE SWITCH, MTG SERIES  
VERTICAL MOUNT

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

MATERIAL

FINISH

WEIGHT

CUSTOMER DRAWING

SCALE

2:1

SHEET

1

OF

3

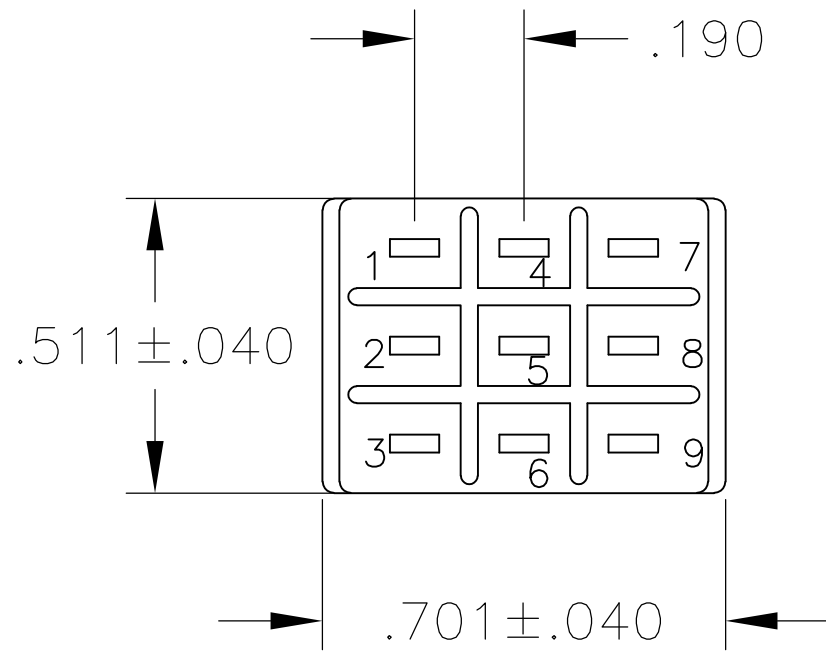
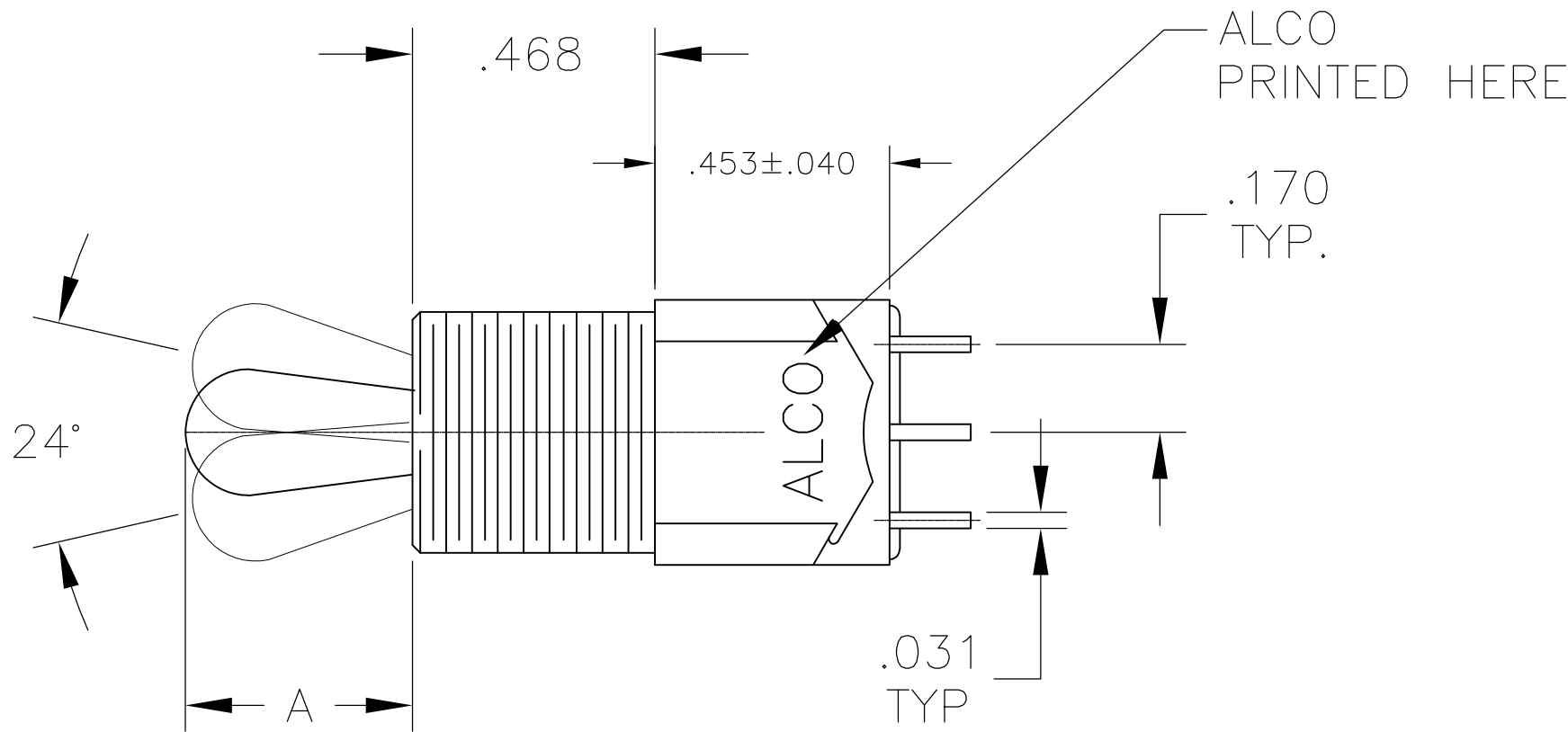
REV

D5

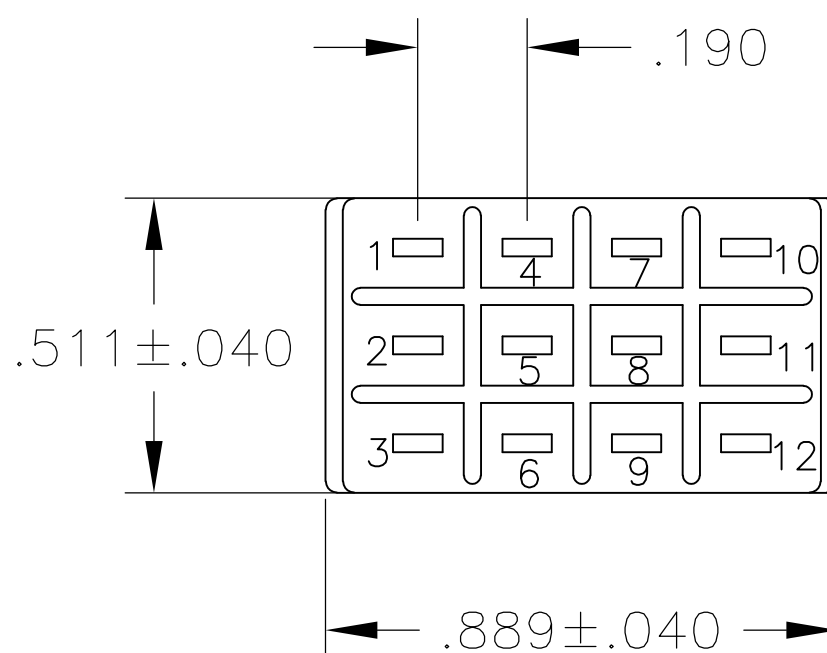
4805 (3/11)



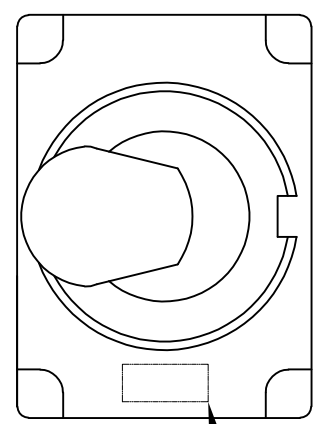
| LOC | DIST | REVISIONS |     |             |      |     |
|-----|------|-----------|-----|-------------|------|-----|
| AD  | 00   | REV       | LTR | DESCRIPTION | DATE | DWN |
|     |      |           |     | SEE SHEET 1 |      |     |



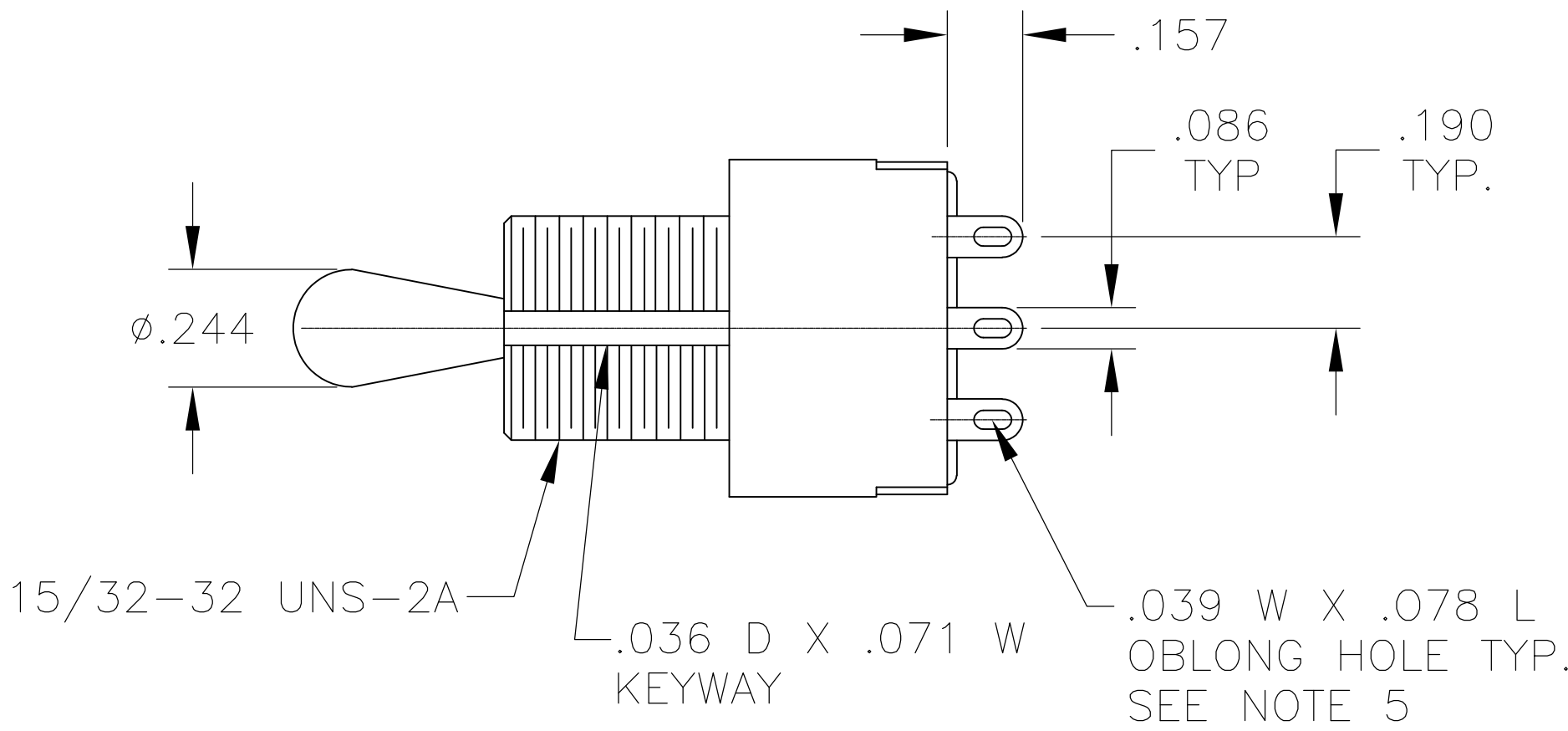
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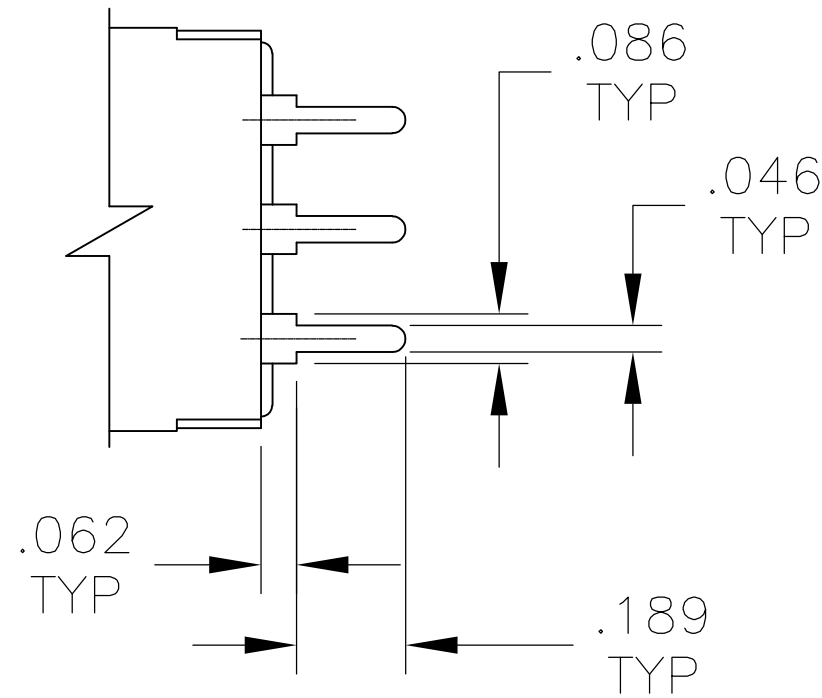
MTG-406



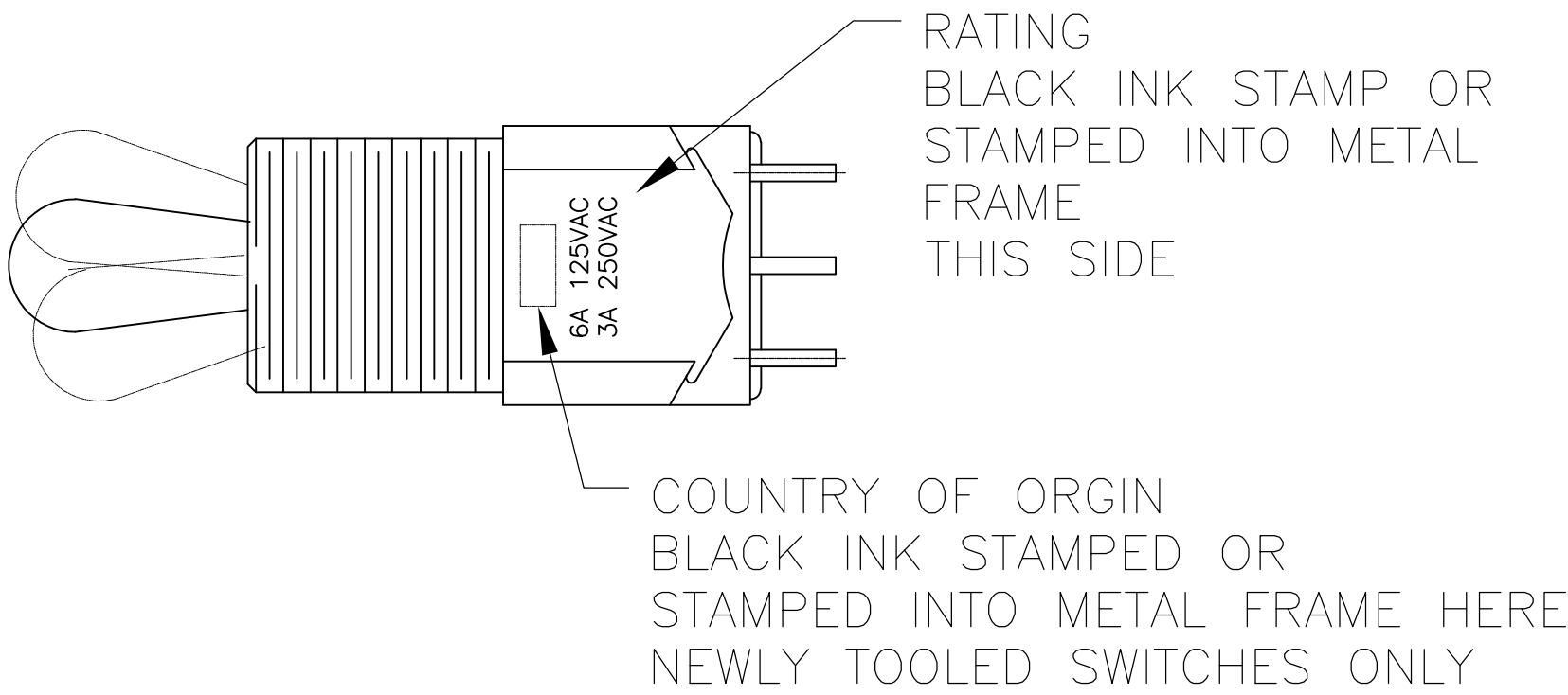
COUNTRY OF ORGIN STAMPED HERE EXISTING SWITCHES ONLY



WIRE LUG TERMINAL



PC TERMINAL



|                                                                                                    |  |                                  |                                                     |  |
|----------------------------------------------------------------------------------------------------|--|----------------------------------|-----------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                             |  | DWN<br>M. BINNER<br>29DEC03      | TE Connectivity                                     |  |
| DIMENSIONS:<br>INCHES                                                                              |  | CHK<br>M. ZITTO<br>29DEC03       |                                                     |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:                                                             |  | APPROD<br>M. ZITTO<br>29DEC03    | NAME<br>TOGGLE SWITCH, MTG SERIES<br>VERTICAL MOUNT |  |
| 0. PLC ± .005<br>1. PLC ± .005<br>2. PLC ± .005<br>3. PLC ± .005<br>4. PLC ± .005<br>ANGLES ± .005 |  | PRODUCT SPEC<br>APPLICATION SPEC | SIZE<br>A1                                          |  |
| MATERIAL<br>-                                                                                      |  | WEIGHT<br>-                      | CAGE CODE<br>1-1437559-1                            |  |
| FINISH<br>-                                                                                        |  | CUSTOMER DRAWING                 | SCALE<br>3:1                                        |  |
|                                                                                                    |  |                                  | SHEET<br>3 OF 3                                     |  |
|                                                                                                    |  |                                  | REV<br>D5                                           |  |

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