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LOC

DIST

AD

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REVISED PER ECO-14-014057

DATE

18FEB2015

DWN

NK

APVD

RH

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	Lever	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
15	Upper toggle cap	Aluminum	matte
16	Lower toggle cap	Aluminum	matte
17	Retaining pin	steel	

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

PC BOARD LAYOUT
PC TERMINAL ONLY

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NOT TO SCALE

Part Number	Alco Model	Poles	Throws	Function	Terminal				Comments
4-1437559-5	MTL406PA	2	3	ON ON ON	Wire lug	5-6, 11-12	5-3, 11-9	5-1, 11-7	note 7
4-1437559-4		4	2	ON ON	Wire lug	2-3, 5-6, 8-9, 11-12	---	2-1, 5-4, 8-7, 11-10	
4-1437559-3		3	2	ON OFF ON	Wire lug	2-3, 5-6, 8-9	Off	2-1, 5-4, 8-7	
4-1437559-2		3	2	ON ON	Wire lug	2-3, 5-6, 8-9	---	2-1, 5-4, 8-7	
4-1437559-1		2	2	(ON) OFF (ON)	Wire lug	2-3, 5-6	Off	2-1, 5-4	
4-1437559-0	MTL206PA	1	3	ON ON ON	Wire lug	5-6	5-3	5-1	note 6
3-1437559-9		2	2	ON OFF ON	Wire lug	2-3, 5-6	Off	2-1, 5-4	
3-1437559-8	MTL206NPC	2	2	ON ON	PC	2-3, 5-6	---	2-1, 5-4	
3-1437559-7		2	2	ON ON	Wire lug	2-3, 5-6	---	2-1, 5-4	
3-1437559-6	MTL106EUL	1	2	ON OFF ON	Wire lug	2-3	Off	2-1	
3-1437559-5		1	2	ON OFF ON	Wire lug	2-3	Off	2-1	
3-1437559-4		1	2	ON ON	Wire lug	2-3	---	2-1	

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TERMINAL NUMBERS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON THE SWITCHES.

EACH SWITCH SUPPLIED WITH THE FOLLOWING MOUNTING HARDWARE:

(2) 1/4-40 UNS-2B HEX NUTS

(1) INTERNAL TOOTH LOCKWASHER

(1) LOCATING RING

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

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

CUSTOMER INSTALLED EXTERNAL JUMPERS BETWEEN TERMINALS 2 AND 4 AS WELL AS 8 AND 10 REQUIRED FOR 2 POLE 3 THROW FUNCTION.

OBSOLETE

LASER MARKING USED FOR PARTS.

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± -

1 PLC ± -

2 PLC ± -

3 PLC ± .005

4 PLC ± -

ANGLES ± -

MATERIAL -

FINISH -

DWN M.BINNER

CHK M.ZITTO

APVD M.ZITTO

29DEC03

29DEC03

29DEC03

NAME

TOGGLE SWITCH,MTL SERIES

VERTICAL MOUNT

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

WEIGHT

100779

3-1437559-7

CUSTOMER DRAWING

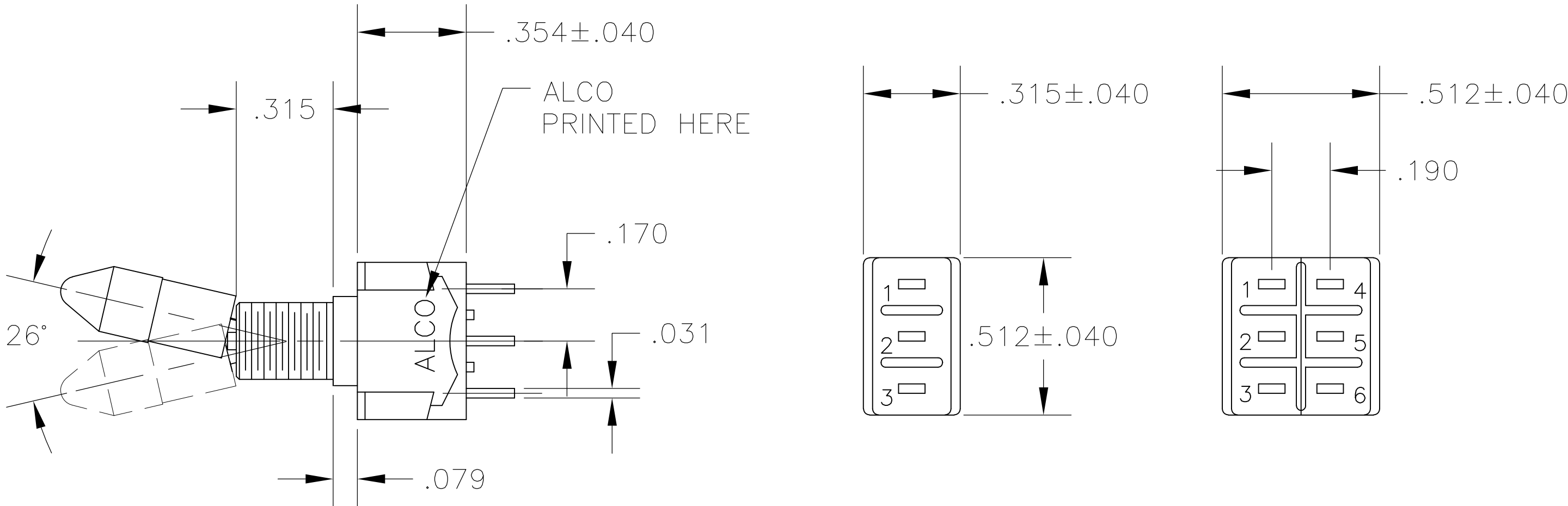
SCALE 1:1

SHEET 1 OF 3

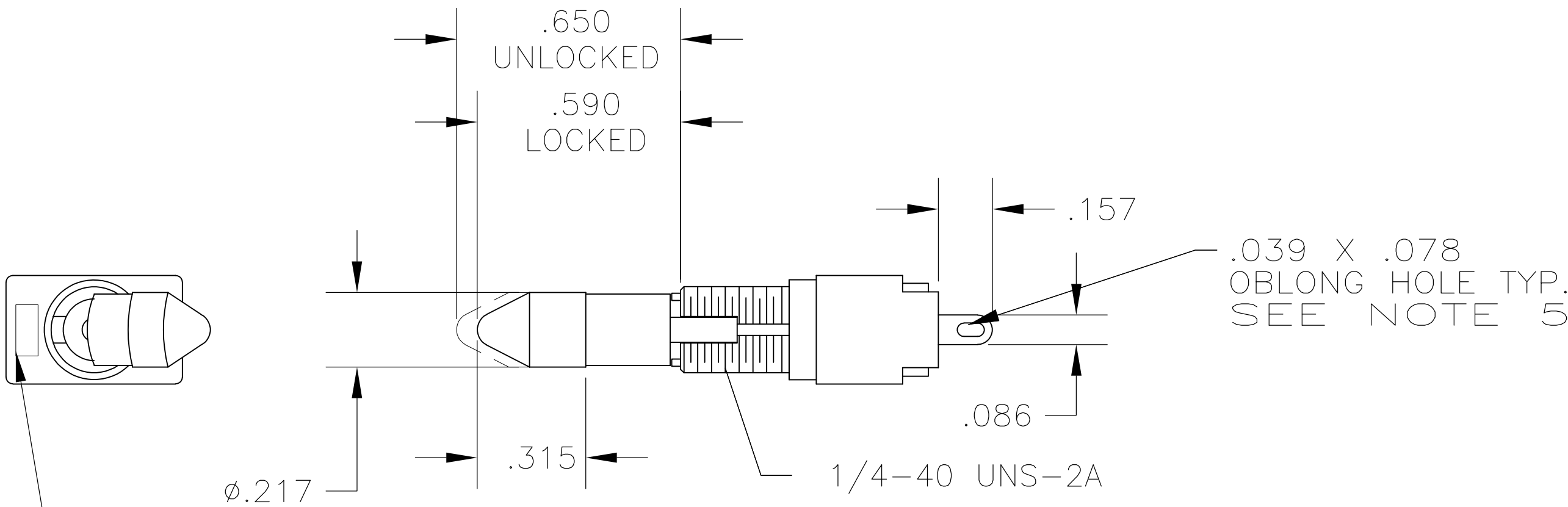
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4805 (3/11)

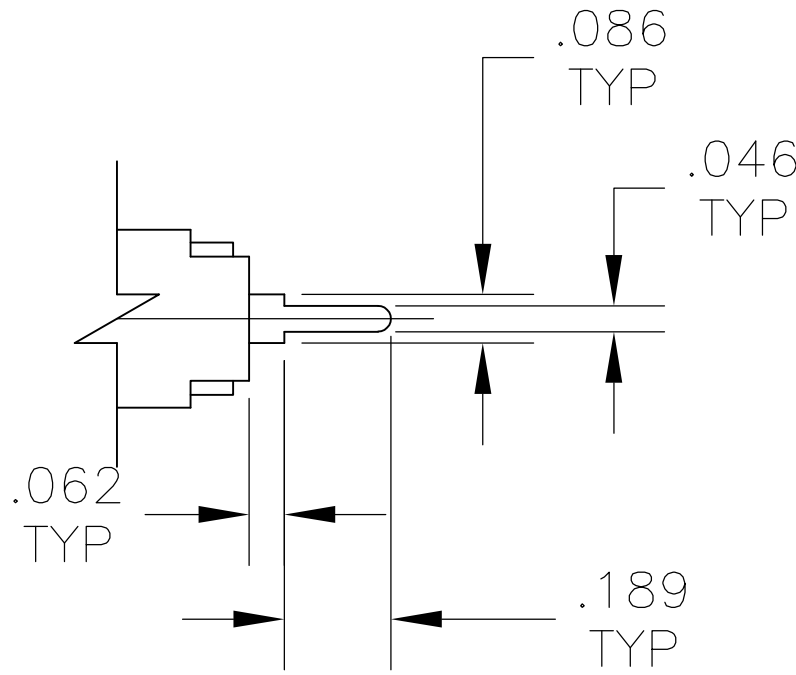
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		P	LTR	DESCRIPTION	DATE	DWN
AD	00	-	-	SEE SHEET 1	-	-



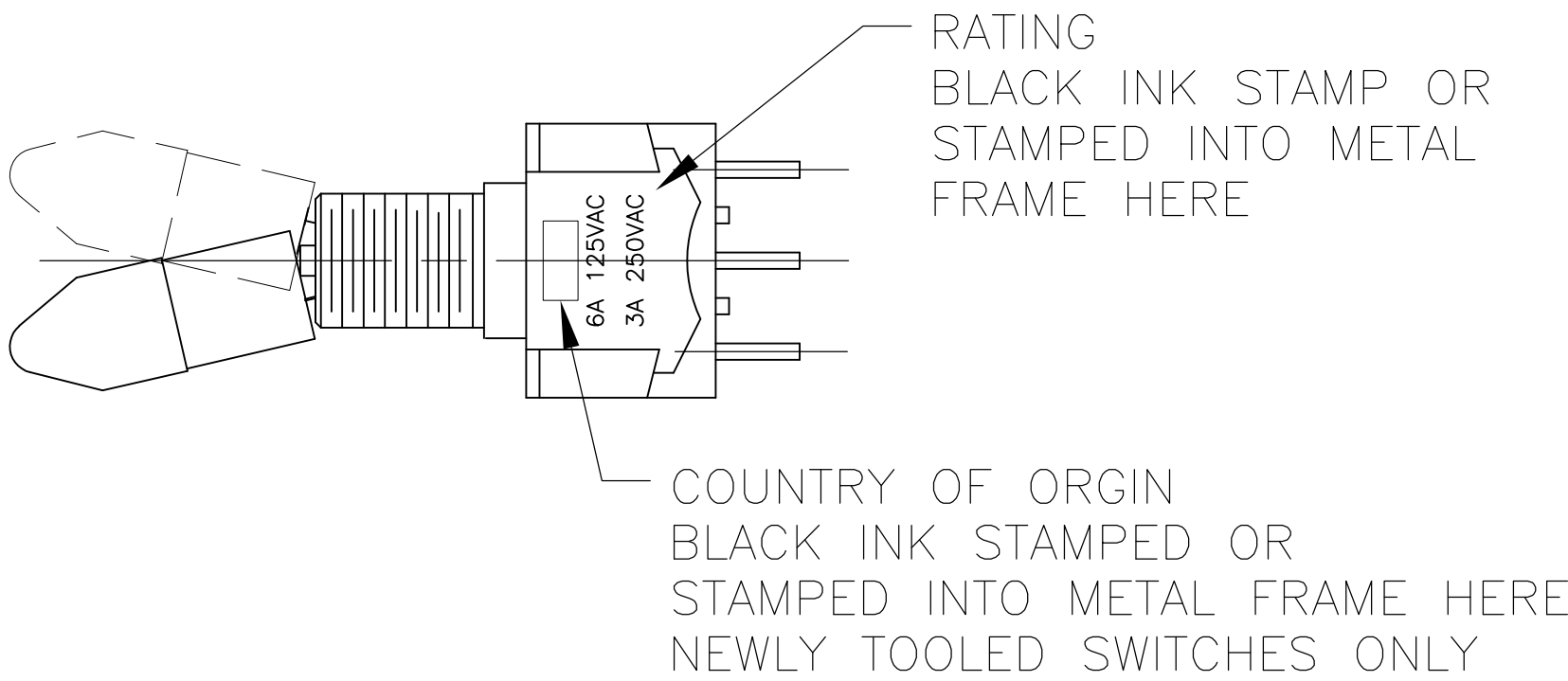
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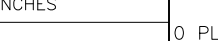


WIRE LUG TERMINAL

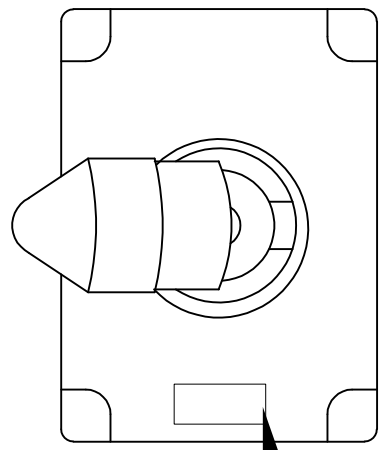
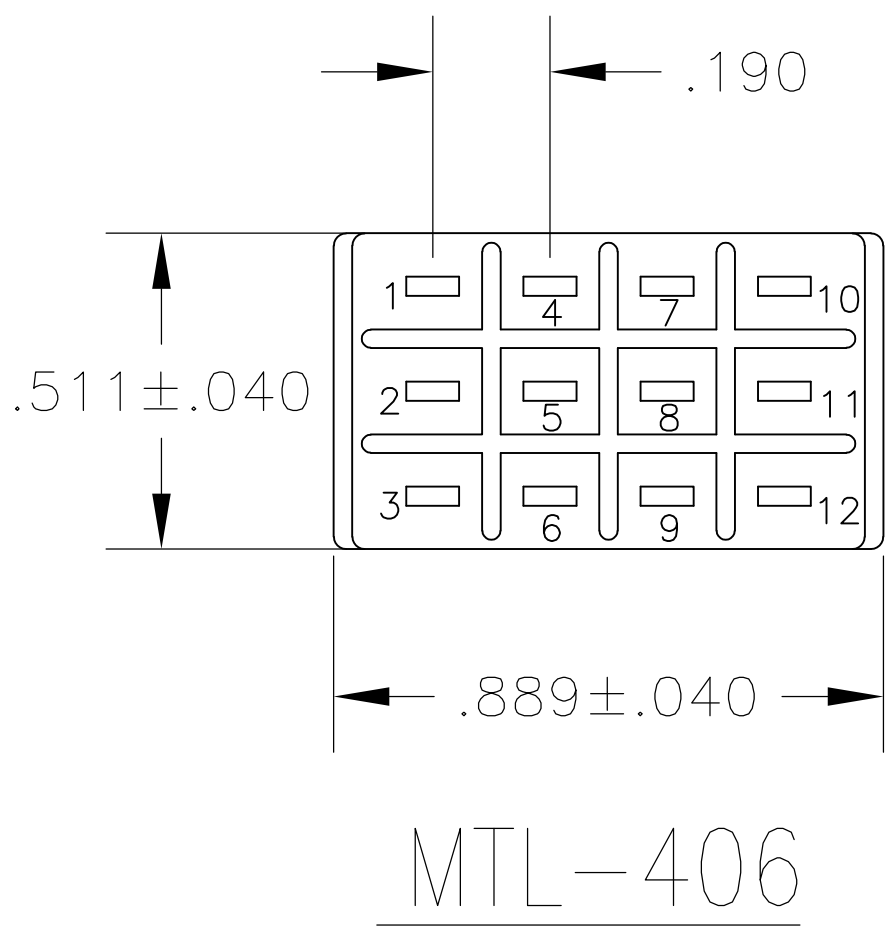
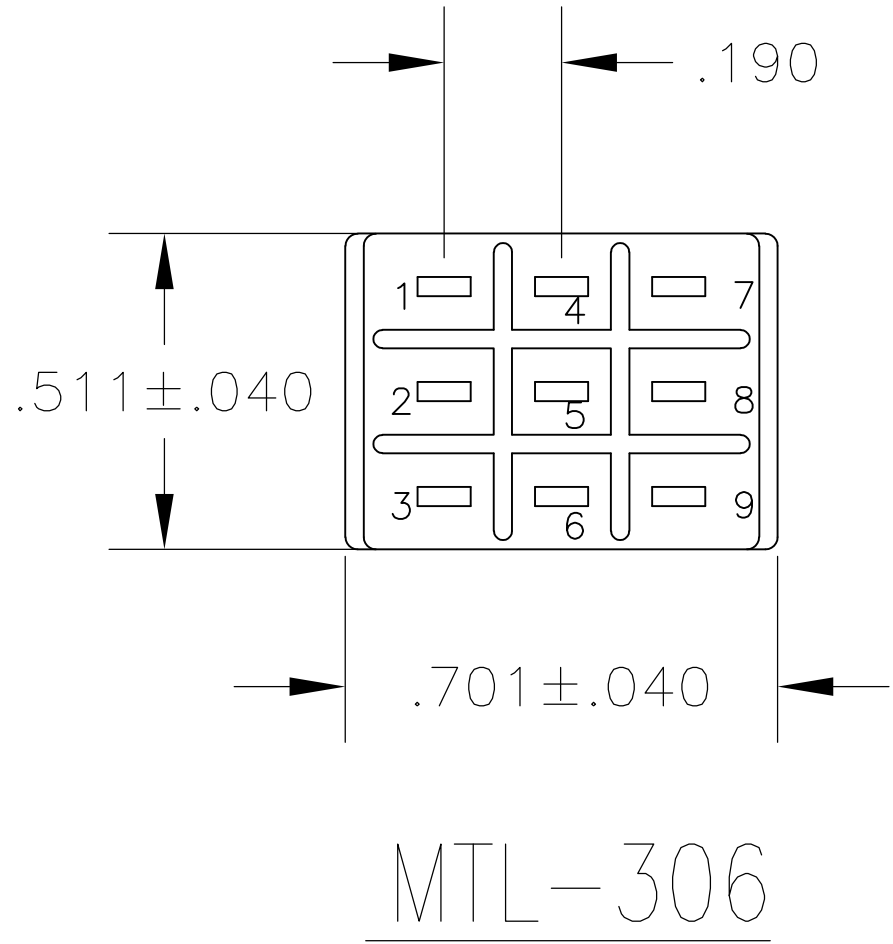
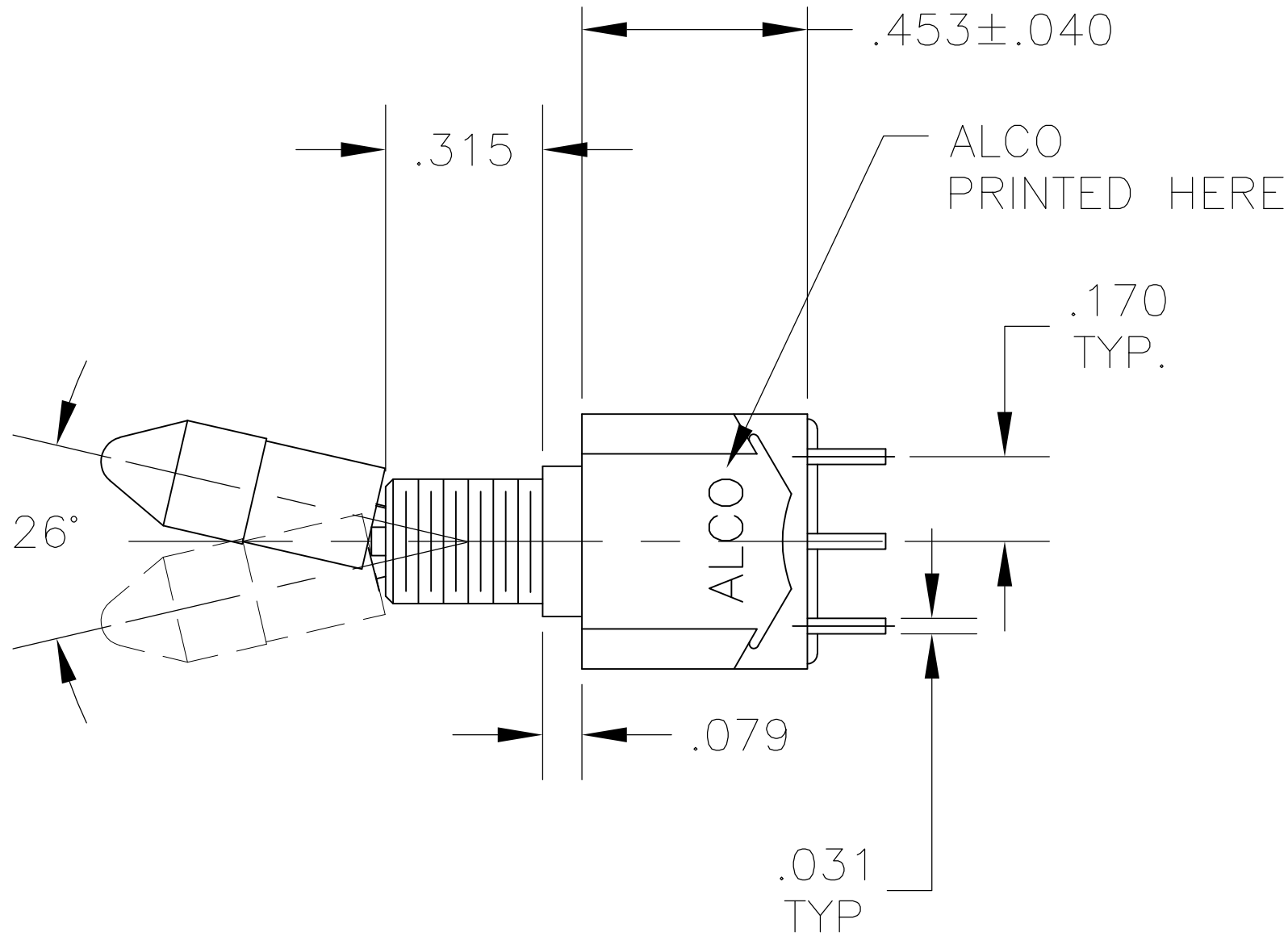


PC TERMINAL

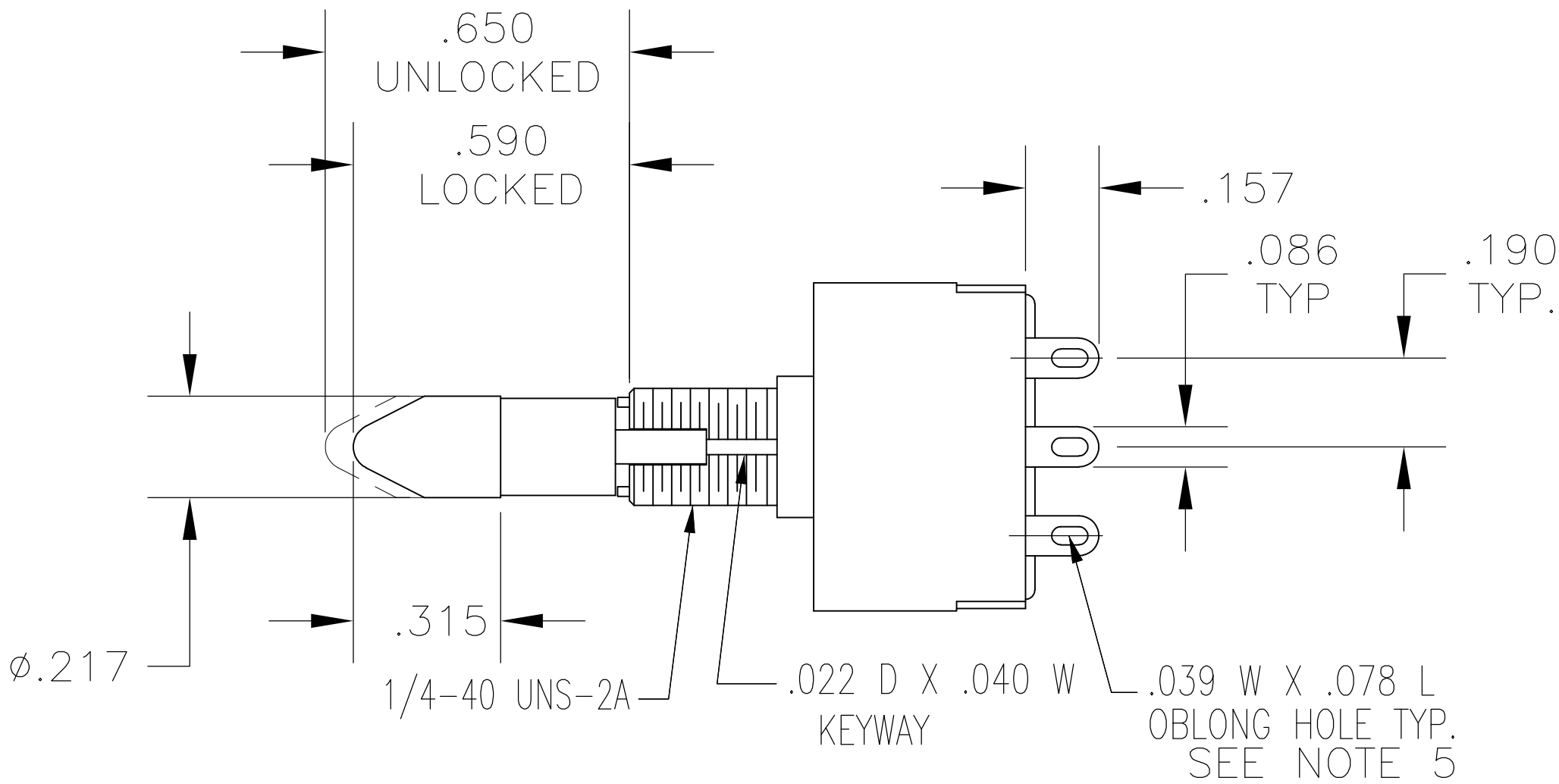


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: M. BINNER 29DEC03	 TE Connectivity	
DIMENSIONS: INCHES		CHK: M. ZITTO 29DEC03		
	TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME TOGGLE SWITCH, MTL SERIES VERTICAL MOUNT —	
	0 PLC ± .005	± .005		APPROVED: M. ZITTO 29DEC03
	1 PLC ± .005	± .005		PRODUCT SPEC
	2 PLC ± .005	± .005		APPLICATION SPEC
	3 PLC ± .005	± .005		SIZE
4 PLC ± .005		± .005	DRAWING NO	RESTRICTED TO
ANGLES ± .005		± .005	A1 00779 C 3-1437559-7 —	
FINISH		—	—	
MATERIAL		—	—	
CUSTOMER DRAWING		SCALE 1:1		SHEET 2 OF 3
		REV D5		

LOC		DIST		REVISIONS			
AD		00		REV	DATE	BY	APPD
				1	SEE SHEET 1		

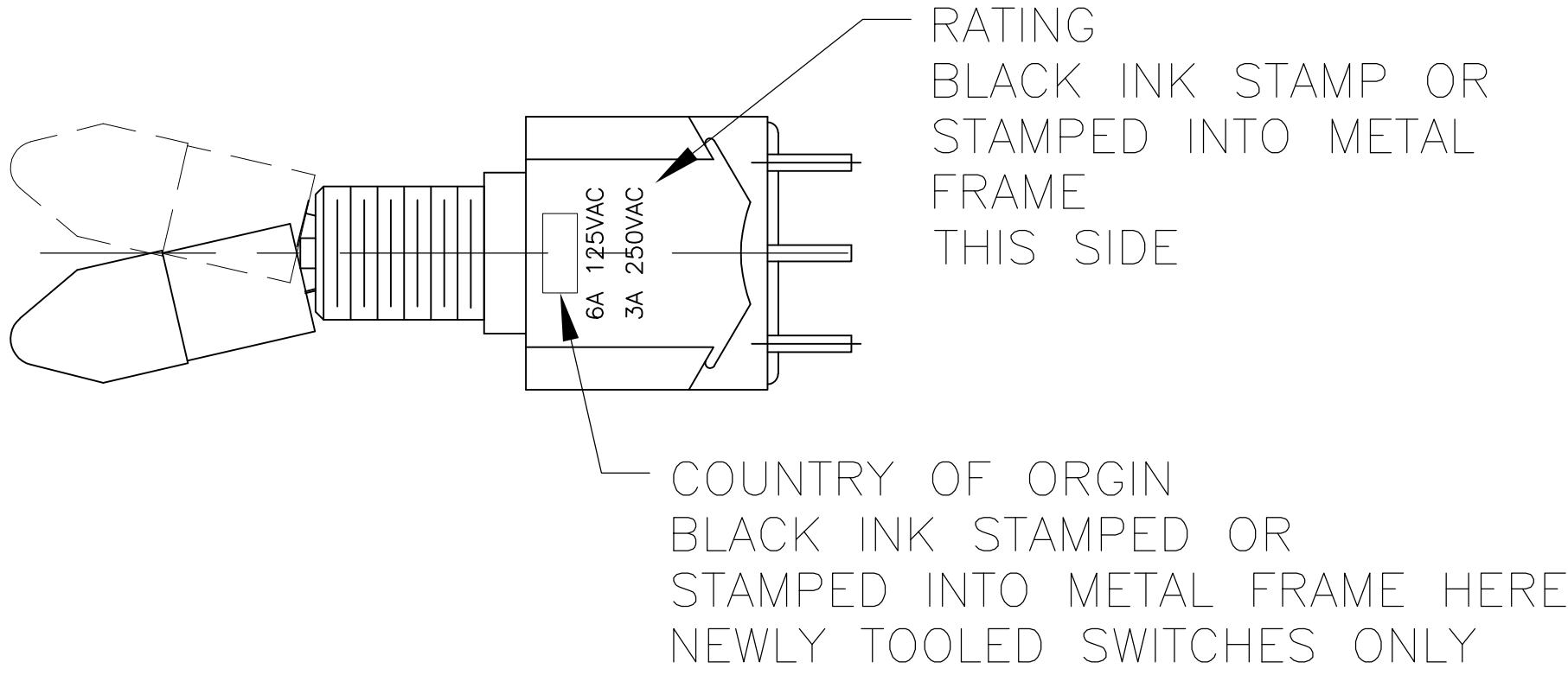


COUNTRY OF ORGIN
STAMPED HERE
EXISTING
SWITCHES ONLY



WIRE LUG TERMINAL

PC TERMINAL



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. BINNER	29DEC03	TE Connectivity	
		CHK M. ZITTO	29DEC03		
DIMENSIONS: INCHES		APPROD M. ZITTO	29DEC03	NAME TOGGLE SWITCH, MTL SERIES VERTICAL MOUNT	
		PRODUCT SPEC			
		APPLICATION SPEC			
		WEIGHT			
MATERIAL		CUSTOMER DRAWING			
		SCALE 1:1		SHEET 3 OF 3	
		REV D5			