

8

7

6

5

4

3

2

1

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LOC

DIST

AD

00

REV

LTR

DESCRIPTION

DATE

DWN

APVD

E3

REVISED

PER

ECO-14-010935

19JUL2014

NK

RH

MATERIALS			
NO.	COMPONENT NAME	BASE MATERIAL	FINISH
1	Housing	Epoxy Resin, UL94 V-0, Green or Blue	
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

RECOMMENDED PANEL LAYOUT

TO PREVENT ROTATION

TO PREVENT ROTATION

1 POLE

2 POLES

3 POLES

4 POLES

PC BOARD LAYOUT

PC TERMINAL ONLY

PART NUMBER	ALCO MODEL	POLES	THROWS	FUNCTION	TERMINAL				COMMENTS
5-1437559-4	MTM406NPC	4	2	ON ON	PC	2-3, 5-6, 8-9, 11-12	---	2-1, 5-4, 8-7, 11-10	
5-1437559-3	MTM306DPC	3	2	ON ON	PC	2-3, 5-6, 8-9	---	2-1, 5-4, 8-7	
5-1437559-2	MTM206SPC	2	2	(ON) OFF (ON)	PC	2-3, 5-6	OFF	2-1, 5-4	
5-1437559-1	MTM206PPC	2	2	ON OFF ON	PC	2-3, 5-6	OFF	2-1, 5-4	
5-1437559-0	MTM206PAPC	1	3	ON ON ON	PC	5-6	5-3	5-1	note 5
4-1437559-9	MTM206NPC	2	2	ON ON	PC	2-3, 5-6	---	2-1, 5-4	
4-1437559-8	MTM106FPC	1	2	ON (ON)	PC	2-3	---	2-1	
4-1437559-7	MTM106EPC	1	2	ON OFF ON	PC	2-3	Off	2-1	
4-1437559-6	MTM106DPC	1	2	ON ON	PC	2-3	---	2-1	

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN

M. BINNER

29DEC03

CHK

M. ZITTO

29DEC03

APP'D

M. ZITTO

29DEC03

NAME

TOGGLE SWITCH, MTM SERIES

VERTICAL MOUNT

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A1

00779

4-1437559-9

CUSTOMER DRAWING

SCALE

4:1

SHEET

1

OF

3

REV

E3

PER SPEC 202-37

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

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

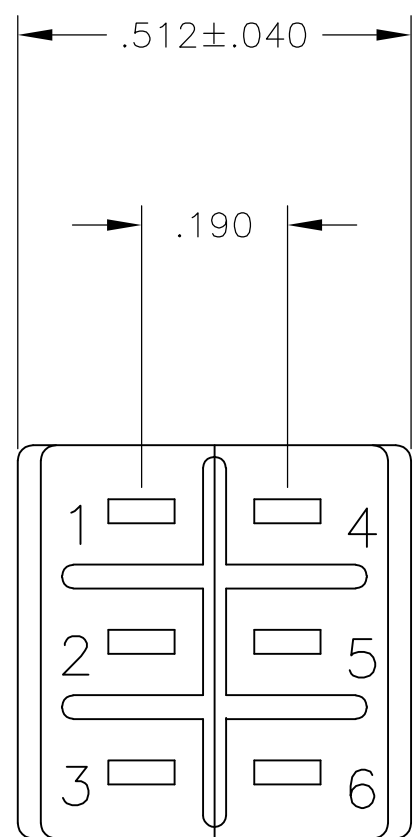
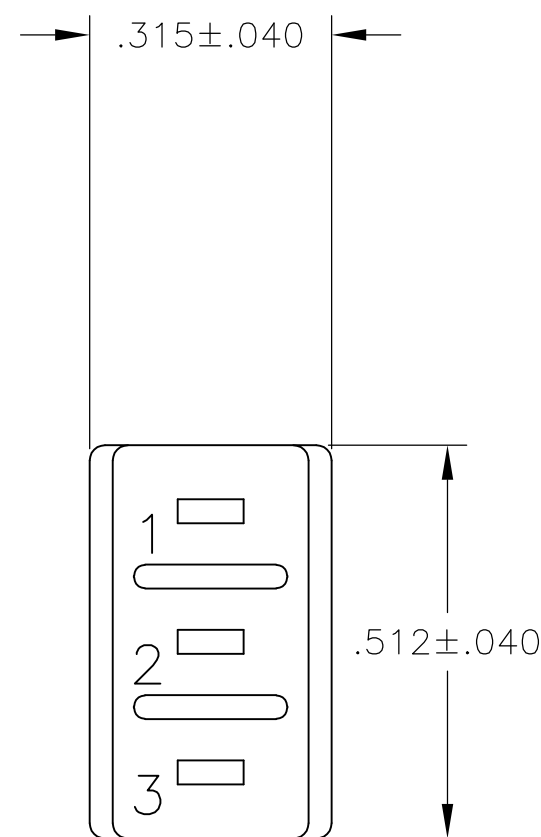
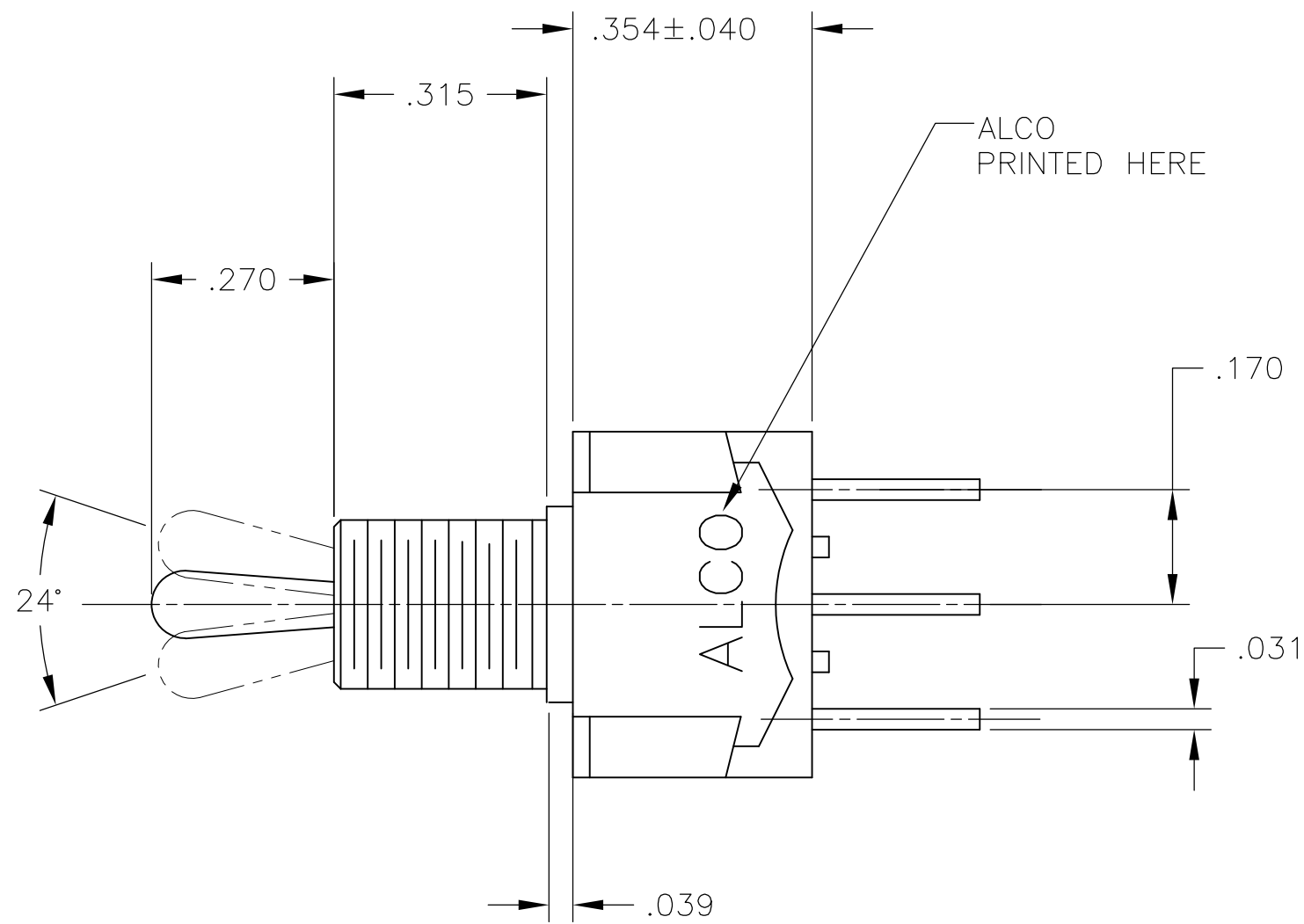
6. OBSOLETE

7. LASER MARKING USED FOR PARTS.

NOT TO SCALE

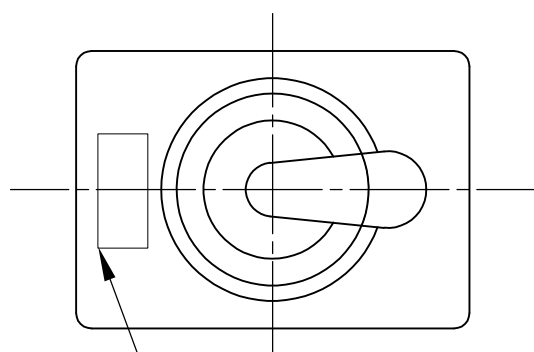
4805 (3/11)

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

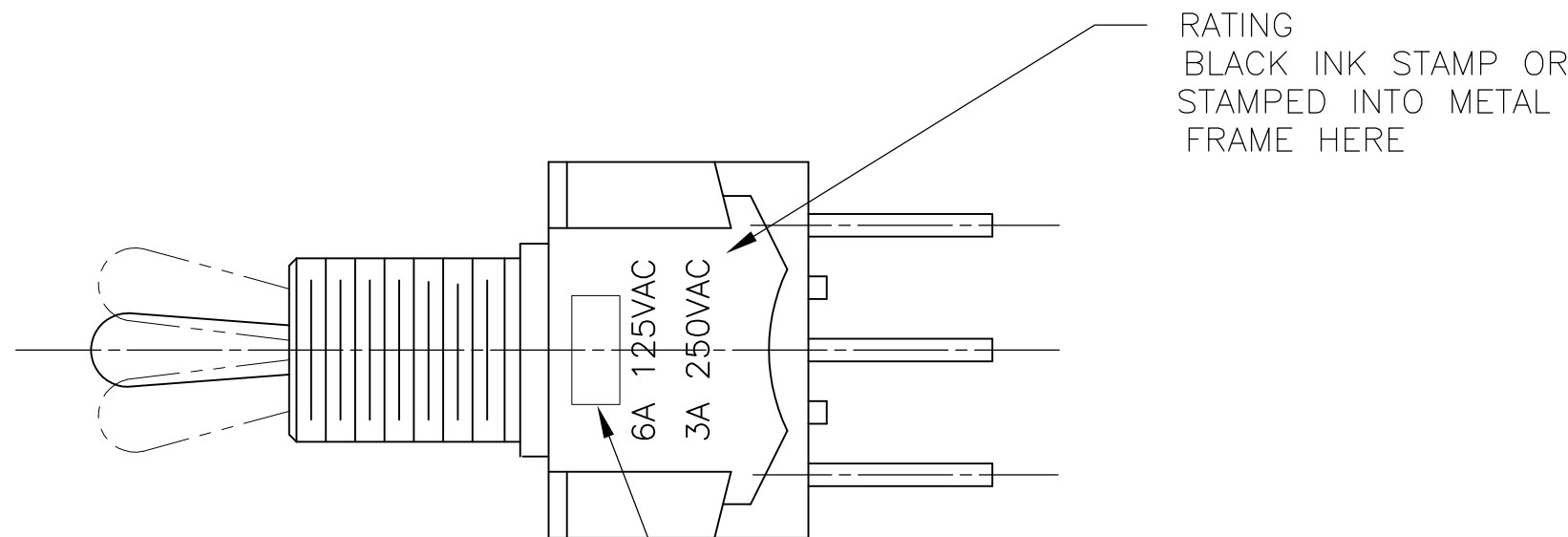
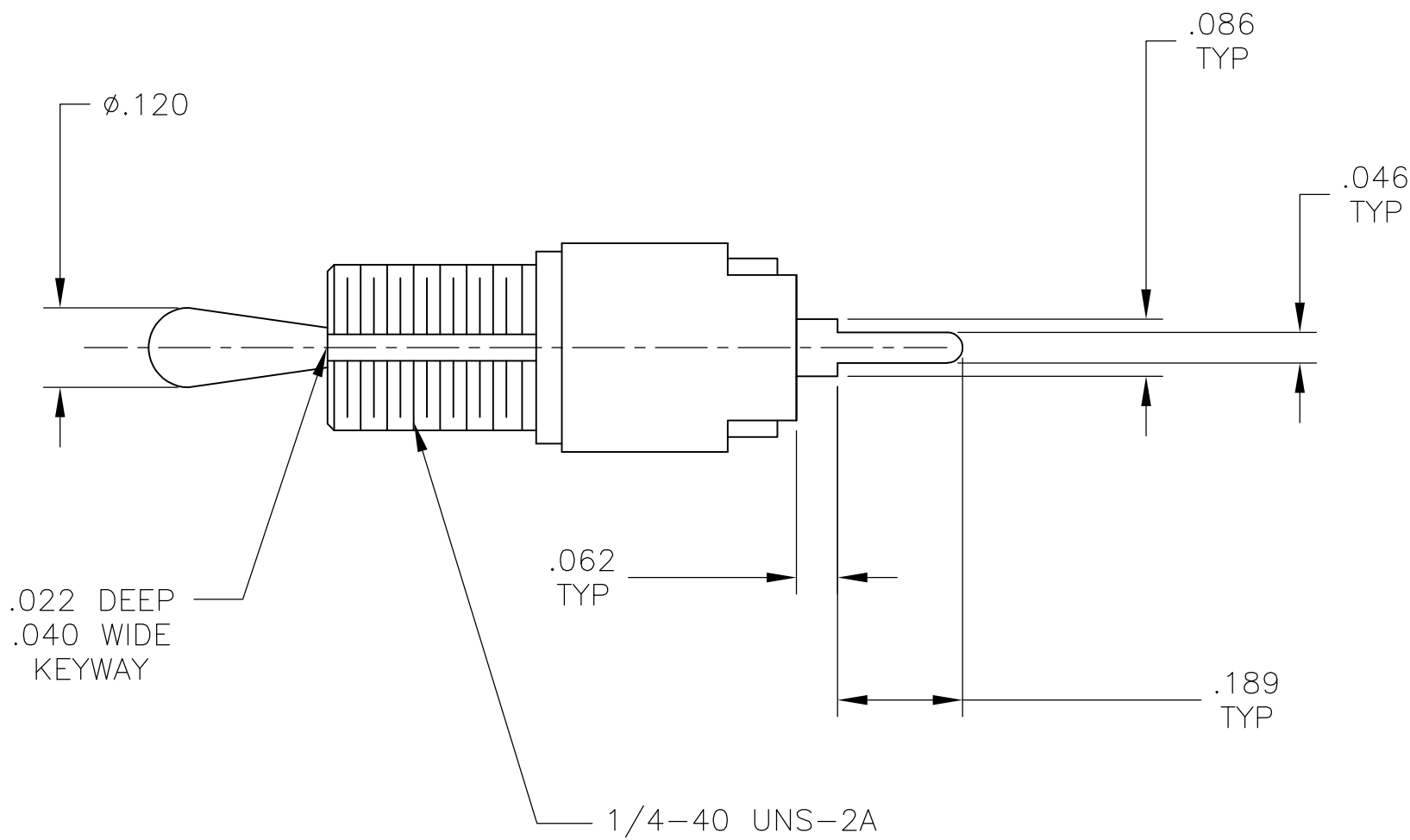


MTM-106

MTM-206



COUNTRY OF ORIGIN
STAMPED HERE
EXISTING
SWITCHES ONLY

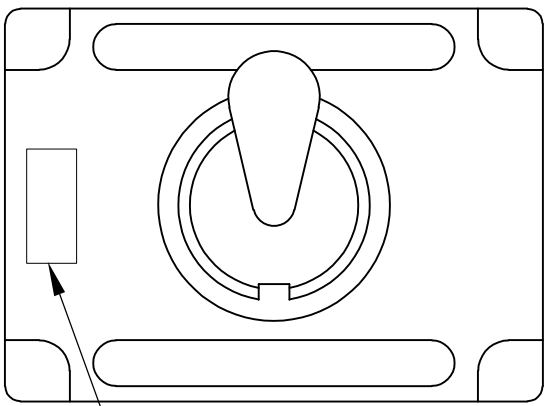


RATING
BLACK INK STAMP OR
STAMPED INTO METAL
FRAME HERE

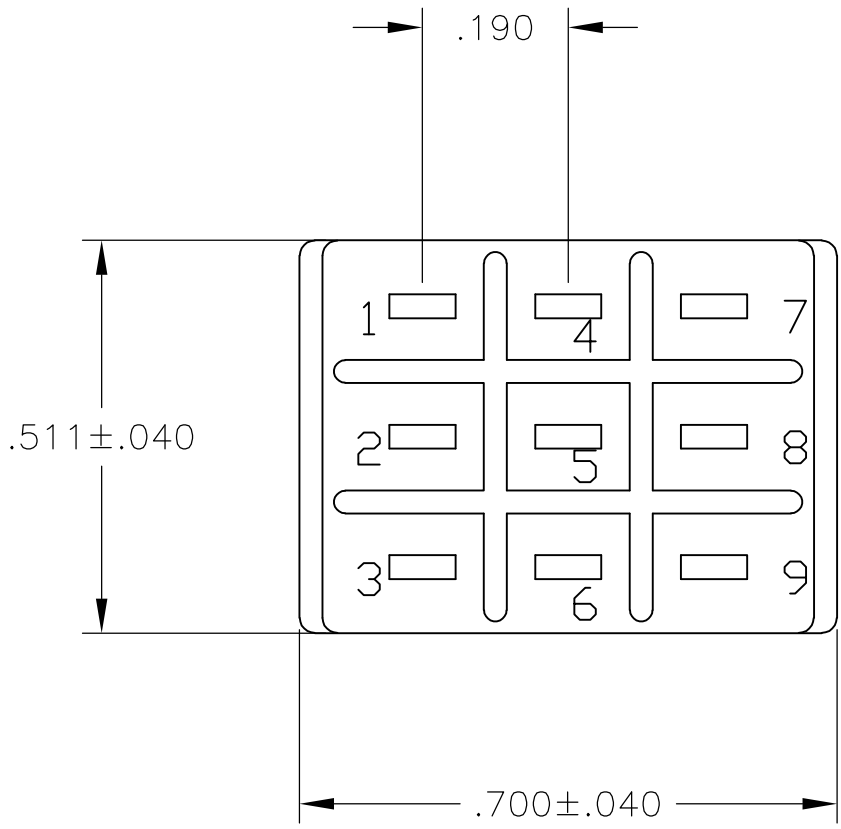
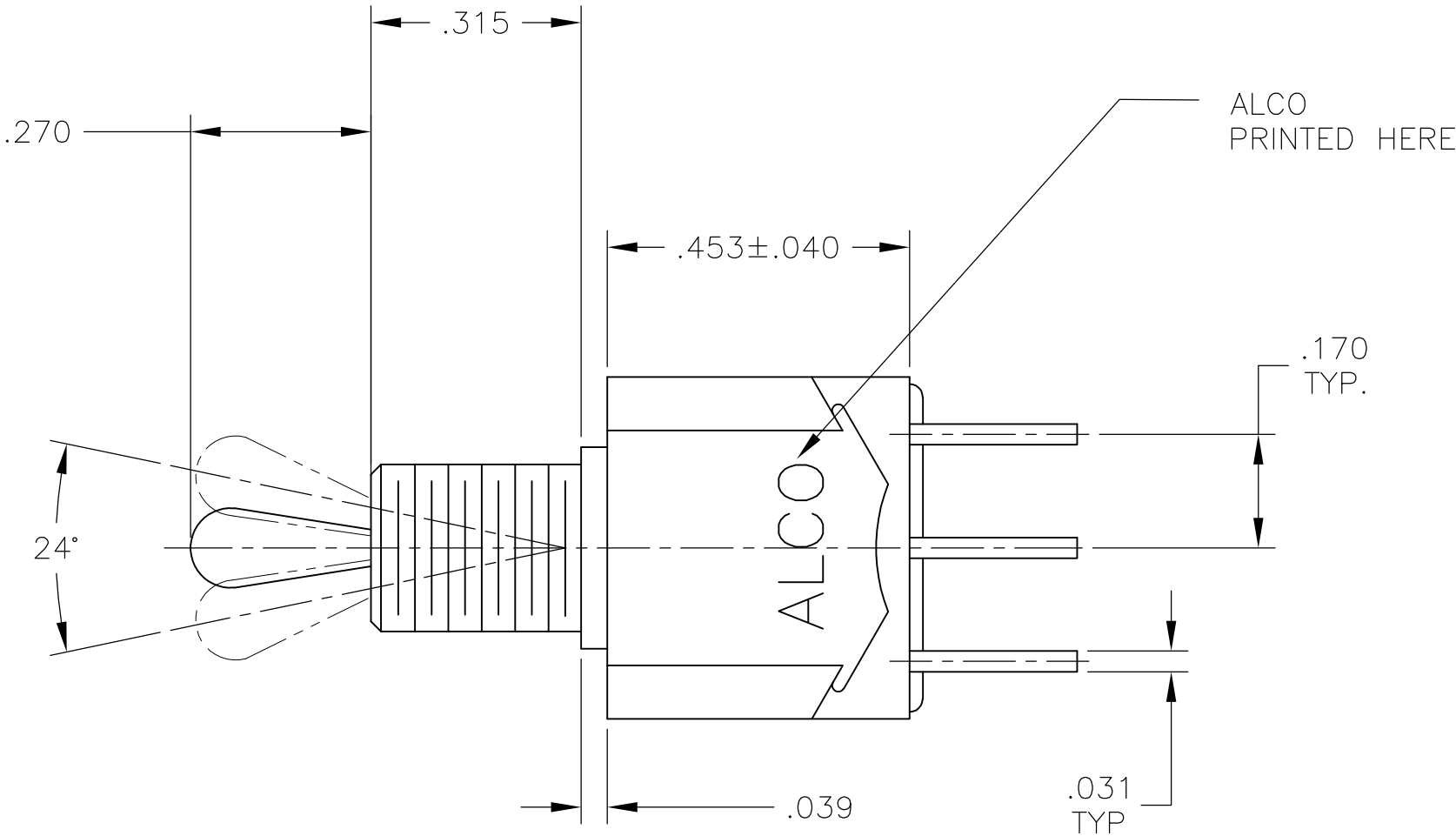
COUNTRY OF ORIGIN
BLACK INK STAMPED OR
STAMPED INTO METAL FRAME HERE
NEWLY TOOLED SWITCHES ONLY

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. BINNER 29DEC03	TE Connectivity	
		CHK M. ZITTO 29DEC03		
DIMENSIONS: INCHES		APPROD M. ZITTO 29DEC03	NAME TOGGLE SWITCH, MTM SERIES VERTICAL MOUNT	
		PRODUCT SPEC		
		APPLICATION SPEC		
		WEIGHT		
MATERIAL		SCALE	SHEET	
		4:1	2 OF 3	
			REV	
			E3	

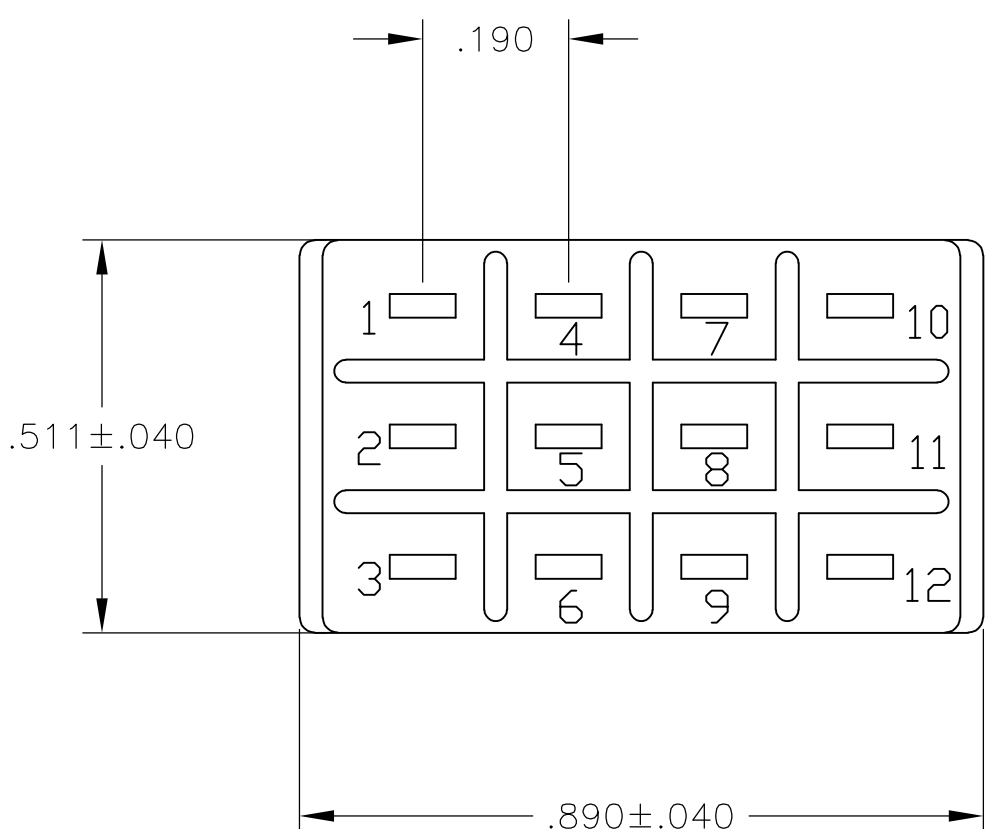
LOC		DIST		REVISONS			
AD	00	FR	LTR	DESCRIPTION	DATE	DWN	APVD
		—	—	SEE SHEET 1	—	—	—



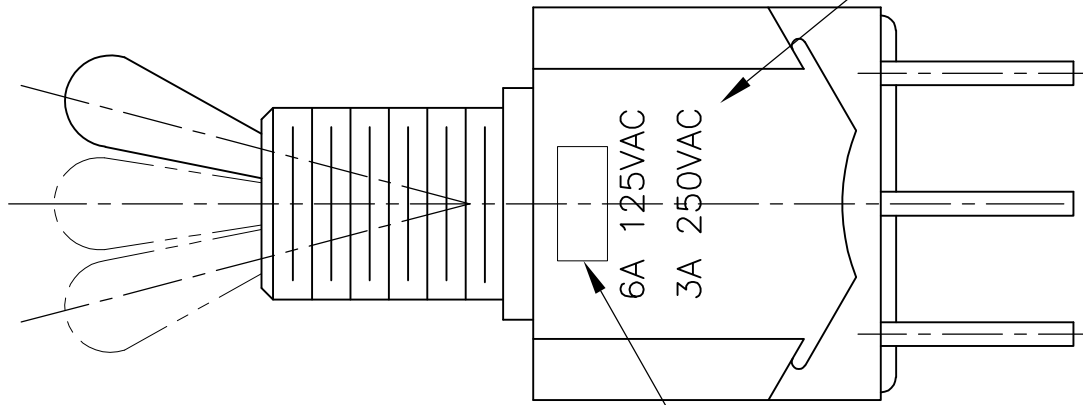
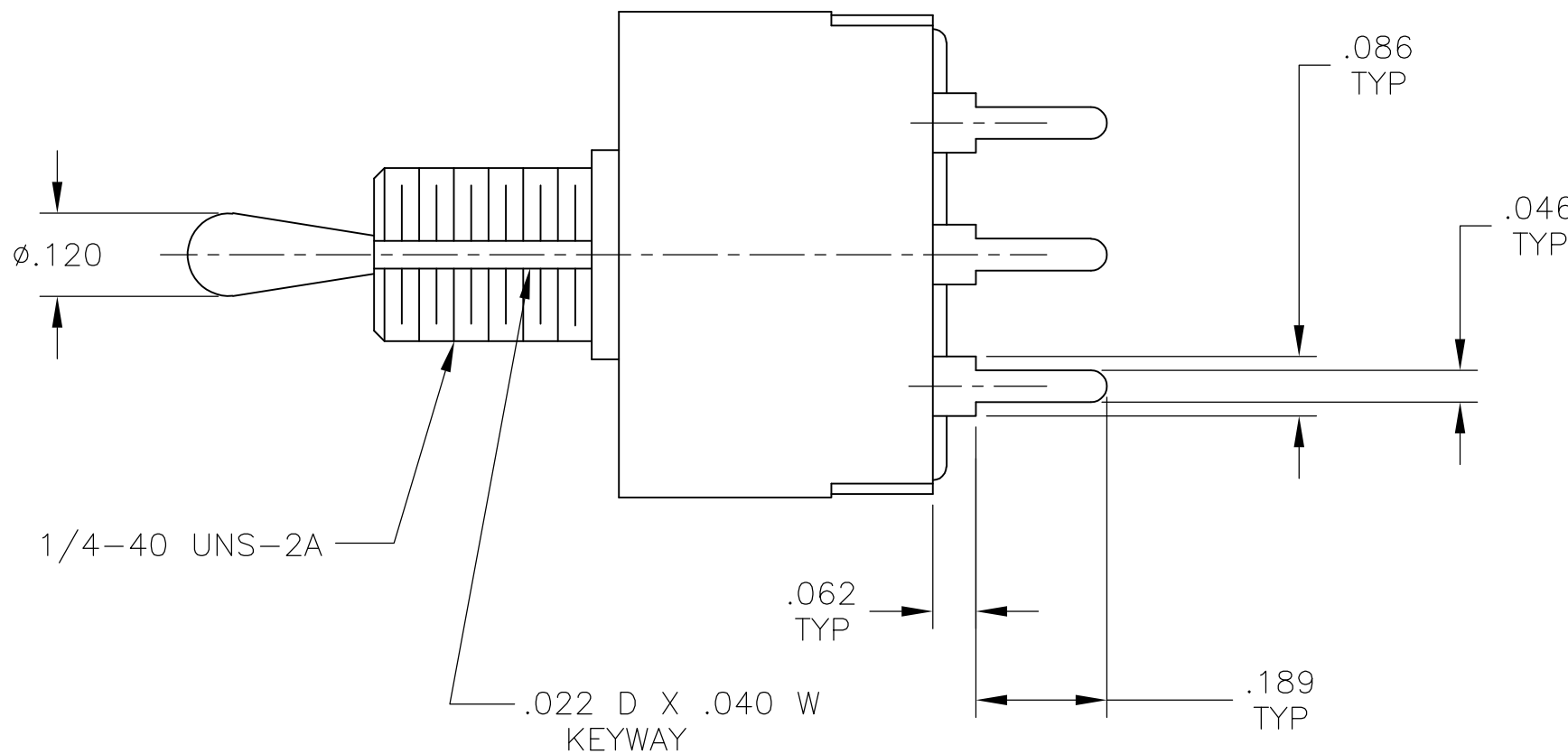
COUNTRY OF ORGIN
STAMPED HERE
EXISTING
SWITCHES ONLY



MTM-306



MTM-406



RATING
BLACK INK STAMP OR
STAMPED INTO METAL
FRAME
THIS SIDE

COUNTRY OF ORGIN
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, MTM SERIES VERTICAL MOUNT	
		PRODUCT SPEC	—	
	0. PLC ± — 1. PLC ± — 2. PLC ± — 3. PLC ± .005 4. PLC ± — ANGLES ± —	APPLICATION SPEC	SIZE A1	
		—	CAGE CODE 4-1437559-9	
MATERIAL —	FINISH —	WEIGHT —	RESTRICTED TO —	
CUSTOMER DRAWING		SCALE 4:1	SHEET 3	OF 3
			REV E3	