

3-1825139-2 Product Details

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3-1825139-2
(A211P3ZQ04)

TE Internal Number: 3-1825139-2

 **Active**

Toggle Switches

 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- A Series
- Double Pole - Double Throw Configuration (Pole-Throw)
- Current Rating = 5 A
- Mount Style = Solder
- Termination Type = Wire Lugs

[View all Features](#)

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Documentation & Additional Information

Product Drawings:

- [GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 3 POSITI...](#) (PDF, English)

Catalog Pages/Data Sheets:

- [SWITCHES_CORE_PROGRAM_CATALOG](#) (PDF, English)
- [GEMINI_SERIES_SWITCHES_QUICK_REF_GUIDE_2-1773458-5](#) (PDF, English)

Product Specifications:

- None Available

Application Specifications:

- None Available

Instruction Sheets:

- None Available

CAD Files:

- None Available

[List all Documents](#)

Additional Information:

- [Product Line Information](#)

Additional Product Images:

- [Product Photo](#)

Related Products:

- [Tooling](#)

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

Product Type Features:

- Series = A
- Termination Type = Wire Lugs

Electrical Characteristics:

- Current Rating (A) = 5

Termination Features:

- Seal Type = Terminal Seal (epoxy)

Body Features:

- Mount Style = Solder
- Bushing Style = Threaded
- Bushing Type = 1/4-40

Contact Features:

- Contact Plating = Silver

Housing Features:

- Toggle Actuation = Vertical
- Toggle Style = Large Flat with Bushing
- Toggle Length (mm [in]) = 12.32 [0.485]
- Process Sealed = No

Configuration Features:

- Configuration (Pole-Throw) = Double Pole - Double Throw
- [Operating Function](#) = On On 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

	• RoHS/ELV Compliance History = Always was RoHS compliant Other: • Brand = Alcoswitch
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NOTES:

- 1 ALL MATERIALS AND FINISHES SHALL COMPLY WITH EU DIRECTIVE 2002/95/EC
OF 27JAN2003 (ROHS).
- 2 EACH SWITCH WITH THREADED BUSHINGS SUPPLIED WITH THE FOLLOWING MOUNTING HARDWARE:
(2) HEX NUTS
(1) INTERNAL TOOTH LOCKWASHER
(1) LOCATING RING.
- 3 G CONTACT OPTION CAN BE USED FOR SIGNAL OR POWER LEVEL SWITCHING. IF SWITCH IS
USED AT LEVELS EXCEEDING .4VA @ 20V AC/DC, SWITCH IS RENDERED FOR POWER SWITCHING
ONLY DUE TO ARC REMOVAL OF GOLD PLATING. RATING STAMPED ON FRAME IS 2A 250VAC,
5A 120VAC.



DATE CODE AND COUNTRY OF ORIGIN MAY APPEAR ON EITHER SIDE OF SWITCH.

5

SP3T FUNCTION ACHIEVED WITH FUNCTIONS 11, 13 & 15 BY CUSTOMER APPLIED JUMPER BETWEEN TERMINALS 3 AND 5.



LENGTH OF TOGGLE REDUCED BY .020 WITH A, AV2, V30 OR V40 VERTICAL SUPPORT BRACKET.

SPECIFICATIONS CHART

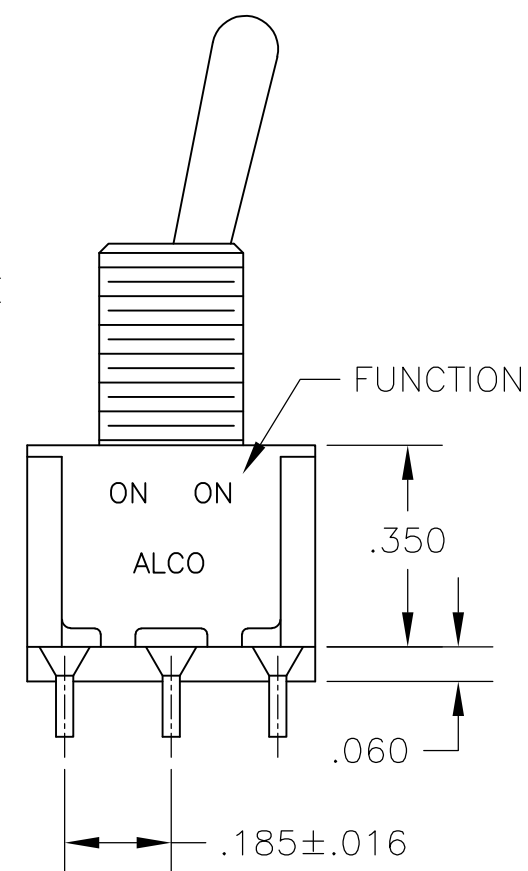
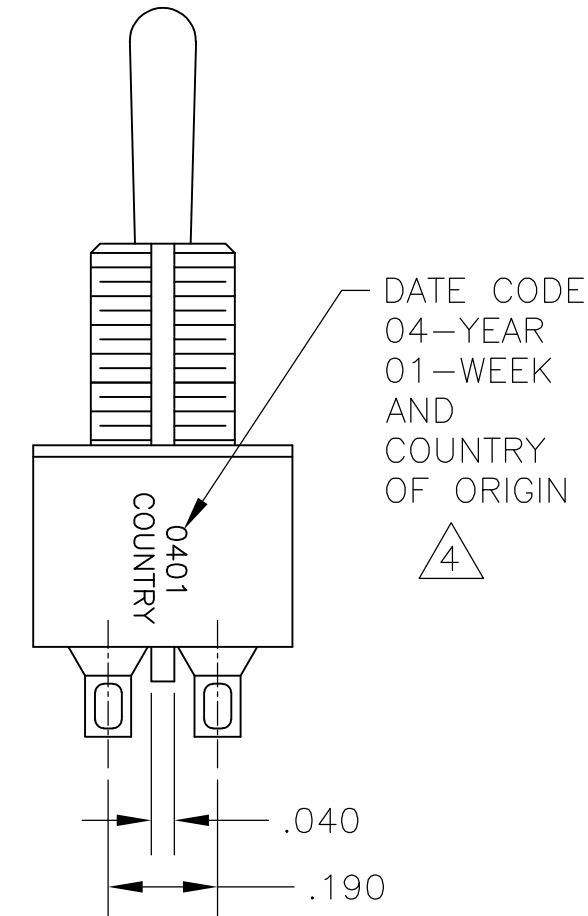
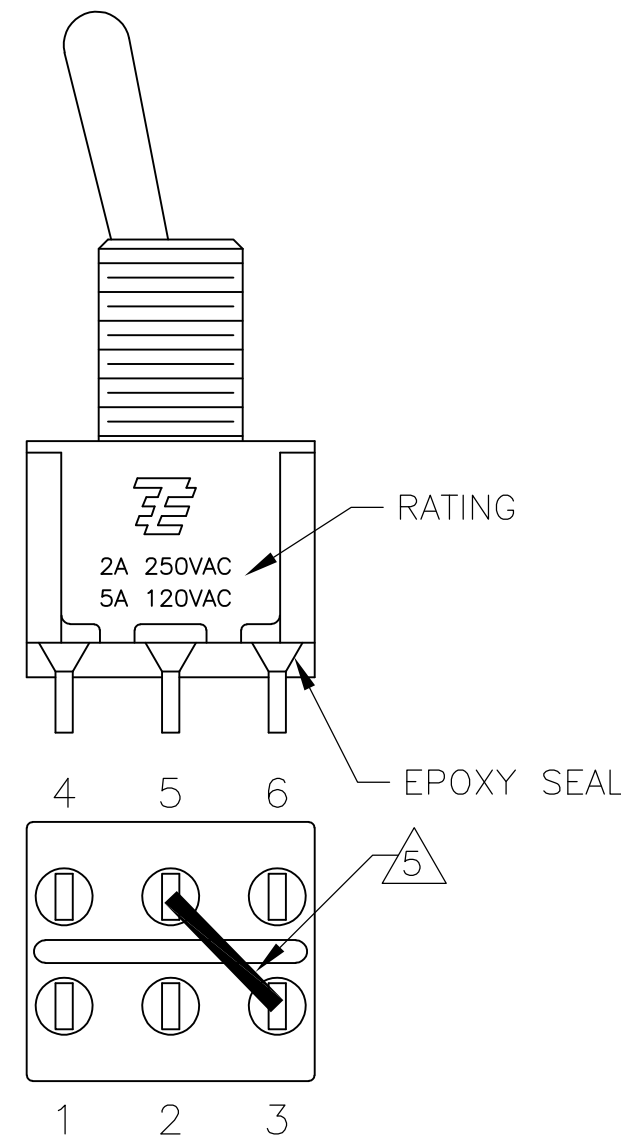
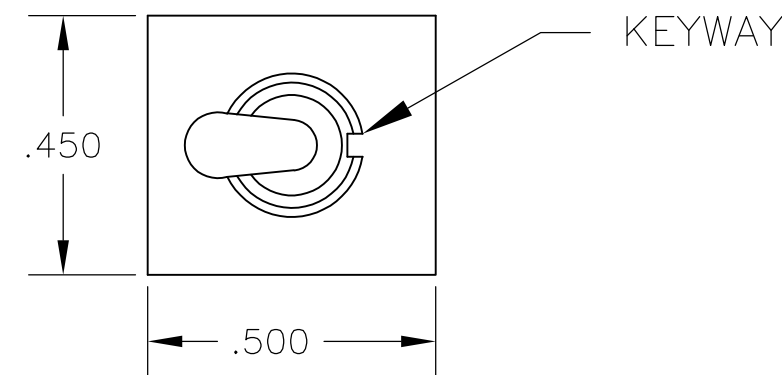
RATING, B CONTACTS	.4VA MAX @20V MAX. AC OR DC
RATING, G CONTACTS—SEE NOTE 3	.4VA MAX @20V MAX. AC OR DC OR
	5A @120 VAC OR 28 VDC (RESISTIVE)
	2A @250 VAC (RESISTIVE)
RATING, Q CONTACTS	5A @120 VAC OR 28 VDC (RESISTIVE)
	2A @250 VAC (RESISTIVE)
ELECTRICAL LIFE	6,000 CYCLES AT RATED LOAD
CONTACT RESISTANCE	10 MILLIOHMS MAX INITIAL @ 2–4VDC, 100ma
INSULATION RESISTANCE	1,000 MEGOHMS MIN
DIELECTRIC WITHSTANDING VOLTAGE	1,000 V RMS AT SEA LEVEL
OPERATING TEMPRATURE	–30C TO 85C

PART NUMBER SEQUENCE CHART

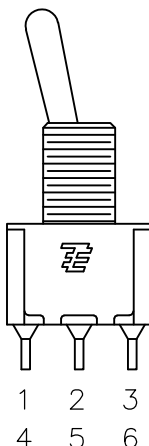
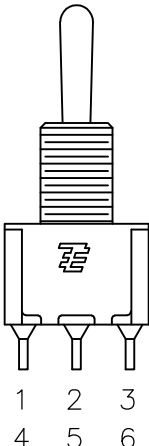
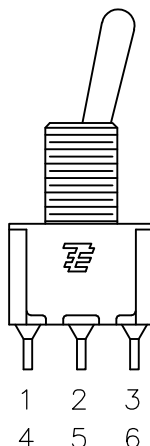
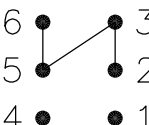
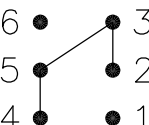
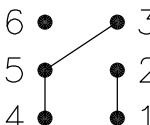
MODEL	FUNCTION	TOGGLE	BUSHING	TERMINAL	CONTACT	RoHS
A2	03	K	CW	A	B	04
	05	K1	D	AV2	G	
	07	L	D9	C	Q	
	11	L1	H	V30		
	13	L2	Y	V40		
	15	M	Y9	V70		
XAMPLE: A207SYZQ04		P3		W		
		S		W4		
		T		Z		
		T1		Z3		

EXAMPLE: A207SYZQ04

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN M. ZITTO		18MAY05		 TE Connectivity	
		CHK M. ZITTO		—			
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. ZITTO		NAME	
		0 PLC ± —		PRODUCT SPEC		GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE, 3 POSITION FUNCTIONS (03, 05, 07, 11, 13 & 15) —	
		1 PLC ± —		—			
		2 PLC ± —		APPLICATION SPEC			
		3 PLC ± .010		—		SIZE	
		4 PLC ± —		—		CAGE CODE	
		ANGLES ± ± 2°		—		DRAWING NO	
MATERIAL		FINISH		WEIGHT		RESTRICTED TO	
—		—		—		—	
CUSTOMER DRAWING						SCALE 3:1	
						SHEET 1 OF 4	
						REV Δ 3	



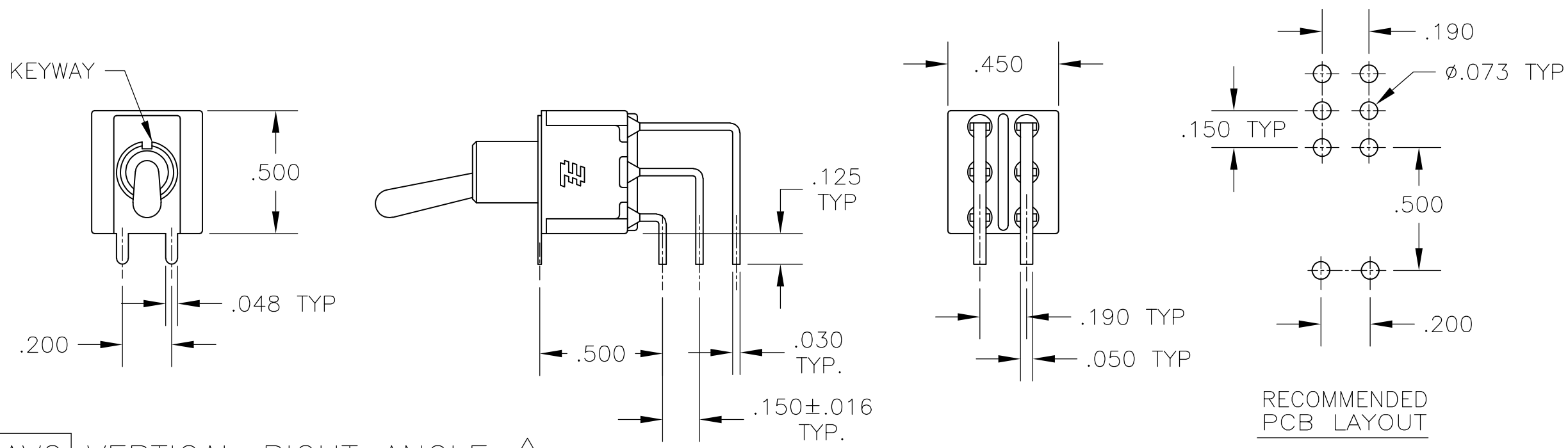
FUNCTION CHART

FUNCTION			
	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6
03	ON	OFF	ON
05	(ON)	OFF	(ON)
07	ON	OFF	(ON)
TERMINALS CONNECTED	2-3, 5-6	---	1-2, 4-5
11	ON	ON	ON
13	ON	ON	(ON)
15	(ON)	ON	(ON)
TERMINALS CONNECTED	2-3, 5-6	2-3, 4-5	1-2, 4-5
SP3T SCHEMATIC (11, 13 & 15 ONLY) SEE NOTE 5			
	IN 2, OUT 6	IN 2, OUT 4	IN 2, OUT 1

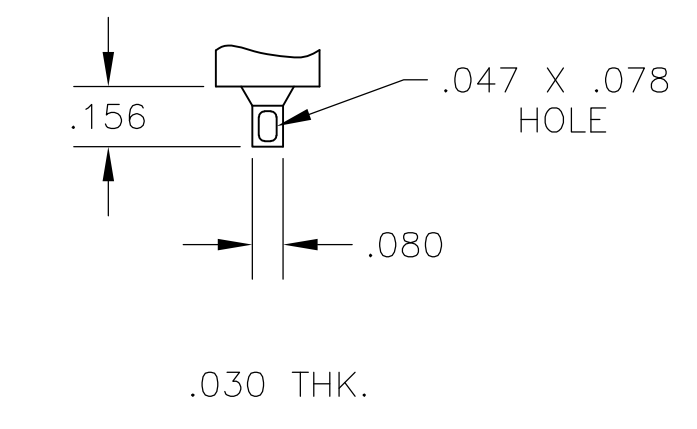
None: No mechanical position
Off: Mechanical position with no electrical connection
(On): Momentary action

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

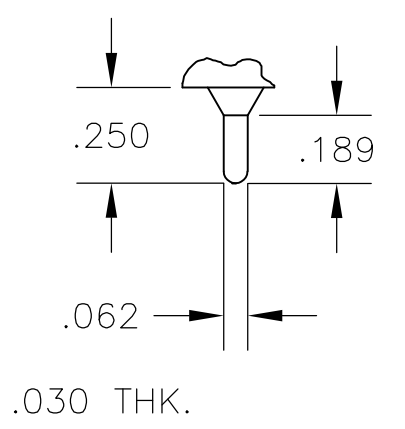
D



AV2 VERTICAL RIGHT ANGLE 6

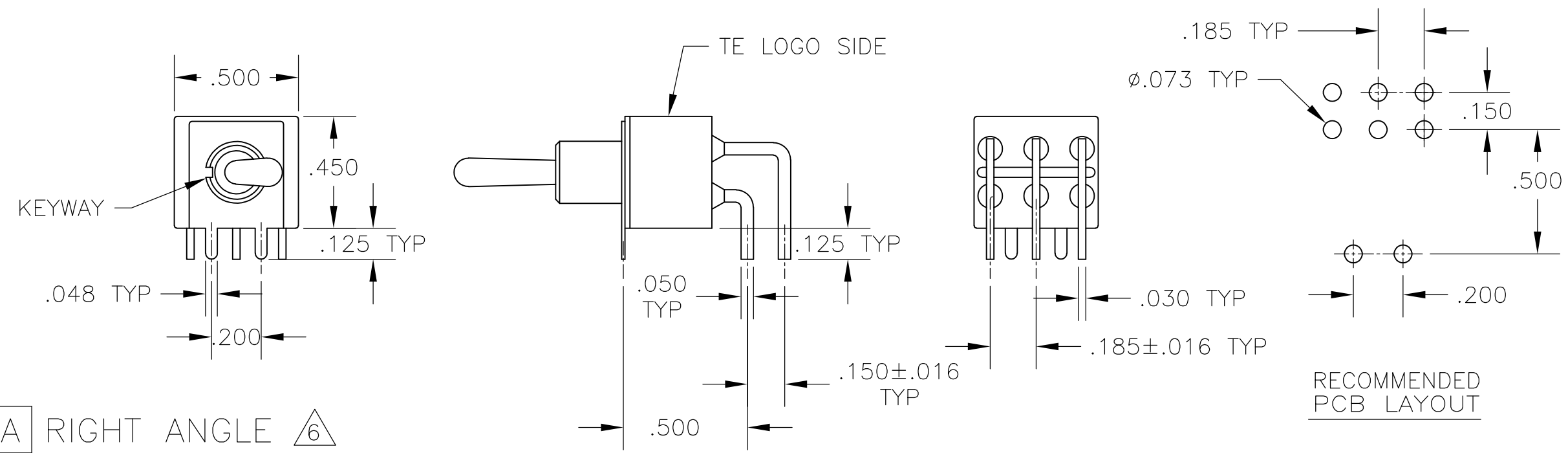


Z WIRE LUG



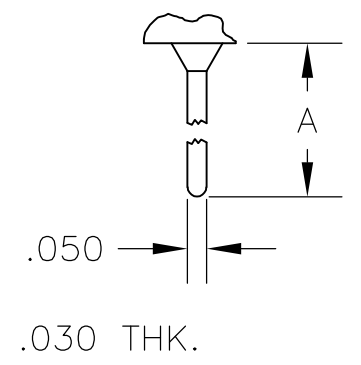
Z3 QUICK CONNECT

C

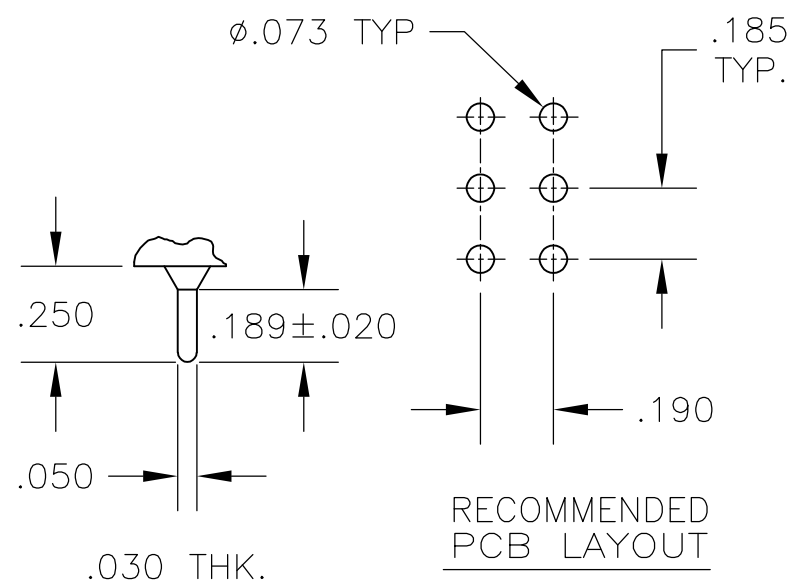


A RIGHT ANGLE 6

OPTION	DIM A
W	.736
W4	1.062

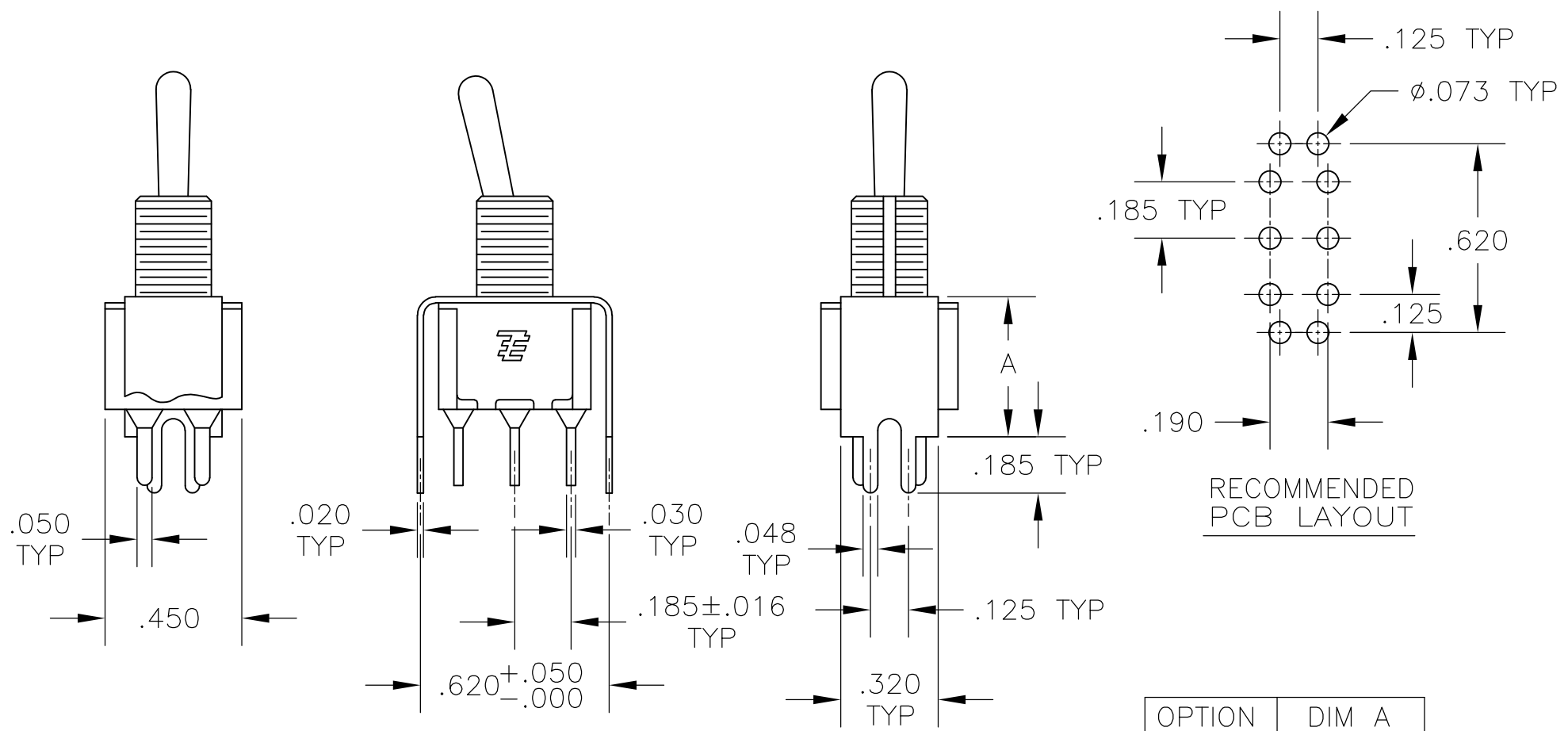


W W4 WIRE WRAP



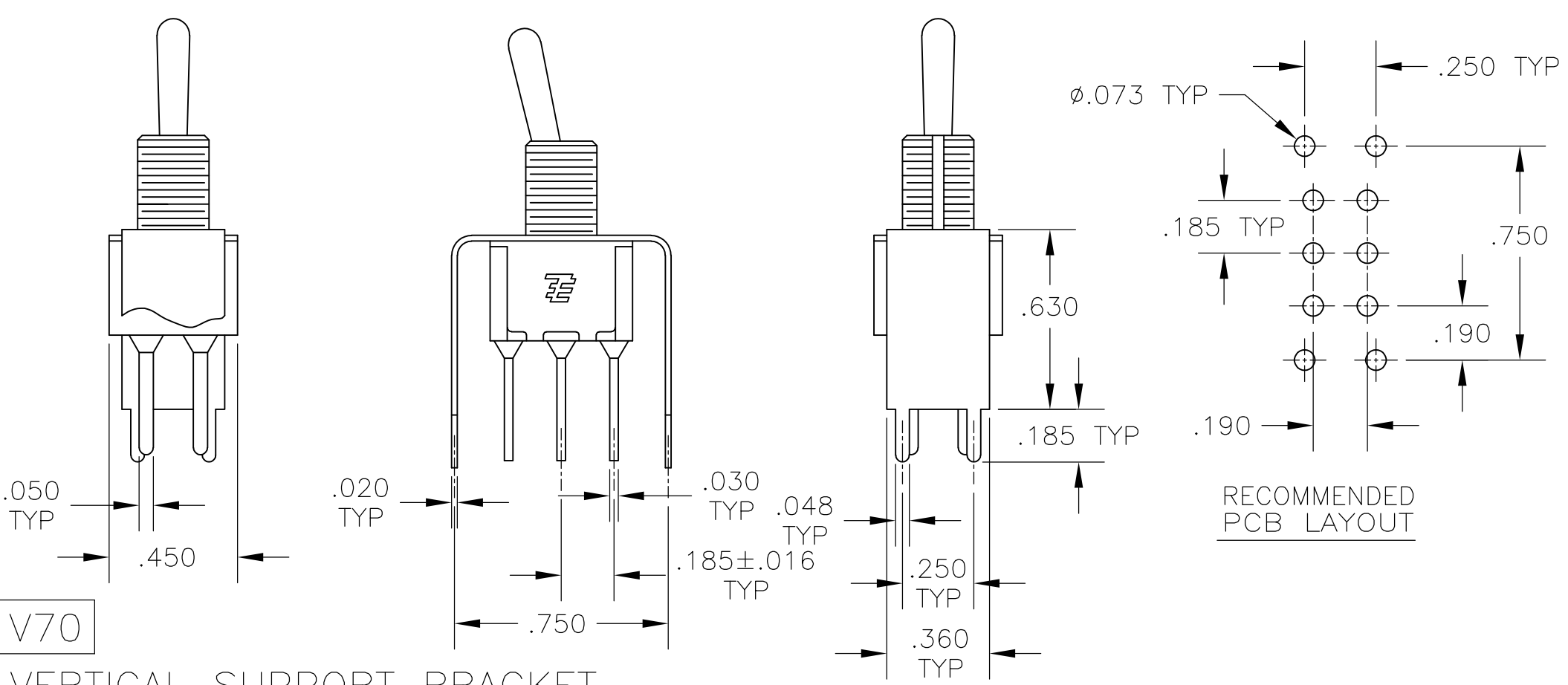
C PRINTED CIRCUIT

B



V30 V40 6
VERTICAL SUPPORT BRACKET

OPTION	DIM A
V30	.460
V40	.630



V70
VERTICAL SUPPORT BRACKET

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DIMENSIONS:
INCHES

MATERIAL

-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± -

1 PLC ± -

2 PLC ± -

3 PLC ± .010

4 PLC ± -

ANGLES ± 2°

FINISH -

DWN
M. ZITTO

CHK
M. ZITTO

APVD
M. ZITTO

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

14APR05

-

-

-

-

-

SCALE
2:1

SHEET
3 of 4

REV
A3

TE Connectivity

NAME
GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE,
3 POSITION FUNCTIONS (03, 05, 07, 11, 13 & 15)

SIZE
A2

CAGE CODE
00779

DRAWING NO
C=1825139

RESTRICTED TO

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

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LOCADDIST00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

Alco P/N	P/N
A203KZQ04	1825139-1
A203MD9AB04	1825139-2
A203P3AV2Q04	1825139-3
A203P3ZQ04	1825139-4
A203SD9AV2B04	1825139-5
A203SD9AV2Q04	1825139-6
A203SDZQ04	1825139-7
A203SYCB04	1825139-8
A203SYCQ04	1825139-9
A203SYZQ04	1-1825139-0
A203T1ZQ04	1-1825139-1
A203TZQ04	1-1825139-2
A205KZB04	1-1825139-3
A205P3ZQ04	1-1825139-4
A205SD9AB04	1-1825139-5
A205SYCB04	1-1825139-6
A205SYCQ04	1-1825139-7
A205SYZQ04	1-1825139-8
A205T1ZQ04	1-1825139-9
A205TZQ04	2-1825139-0
A207P3ZQ04	2-1825139-1
A207SYCB04	2-1825139-2
A207SYCQ04	2-1825139-3
A207SYZQ04	2-1825139-4
A207T1ZQ04	2-1825139-5
A207TZQ04	2-1825139-6
A211KZB04	2-1825139-7
A211MD9AQ04	2-1825139-8
A211MYCQ04	2-1825139-9
A211P3CQ04	3-1825139-0
A211P3V40G04	3-1825139-1
A211P3ZQ04	3-1825139-2
A211SCWCQO04	3-1825139-3
A211SDZQ04	3-1825139-4
A211SHZQ04	3-1825139-5
A211SY9AQ04	3-1825139-6
A211SYCQ04	3-1825139-7
A211SYZB04	3-1825139-8
A211SYZQ04	3-1825139-9
A211T1ZQ04	4-1825139-0
not assigned	4-1825139-1
A213SYZQ04	4-1825139-2
A215SD9V30B04	4-1825139-3
A215SY9AQ04	4-1825139-4
A215SYZQ04	4-1825139-5

RECOMMENDED PANEL CUT-OUTS

BUSHING SIZE	WITHOUT LOCKING RING	WITH STANDARD LOCKING RING
1/4		
15/32		

MATERIALS CHART

COMPONENT NAME	BASE MATERIAL	FINISH
CASE	DAP, RED, UL94 V-0	
FRAME	STAINLESS STEEL	
B TERMINALS & CONTACTS	COPPER	GOLD OVER NICKEL
G TERMINALS & CONTACTS	COPPER	GOLD OVER SILVER
Q TERMINALS & CONTACTS	COPPER	.000400 SILVER
ACTUATOR	PHENOLIC, BLACK, UL94 V-1	
LEVER	BRASS	CHROME
BUSHING	BRASS	NICKEL
SPRING	MUSIC WIRE	
SUPPORT BRACKET	BRASS	TIN
PIVOT PIN	STEEL	NICKEL
LOCK WASHER	STAINLESS STEEL	
LOCKING RING	STAINLESS STEEL	
NUTS	C3604BD BRASS	NICKEL
TERMINAL SEAL	EPOXY	

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ± -
1 PLC ± -
2 PLC ± -
3 PLC ± .010
4 PLC ± -
ANGLES ± 2°
FINISH -

DWN
M. ZITTO
CHK
M. ZITTO
APVD
M. ZITTO
PRODUCT SPEC
APPLICATION SPEC
WEIGHT
CUSTOMER DRAWING

14APR05
-
-
-
-
-
-
-

TE Connectivity

NAME
GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE,
3 POSITION FUNCTIONS (03, 05, 07, 11, 13 & 15)
-

SIZE
A2

CAGE CODE
00779

DRAWING NO
C=1825139

RESTRICTED TO
-

SCALE
3:1

SHEET
4 OF 4

REV
A3

1471-9 (3/11)