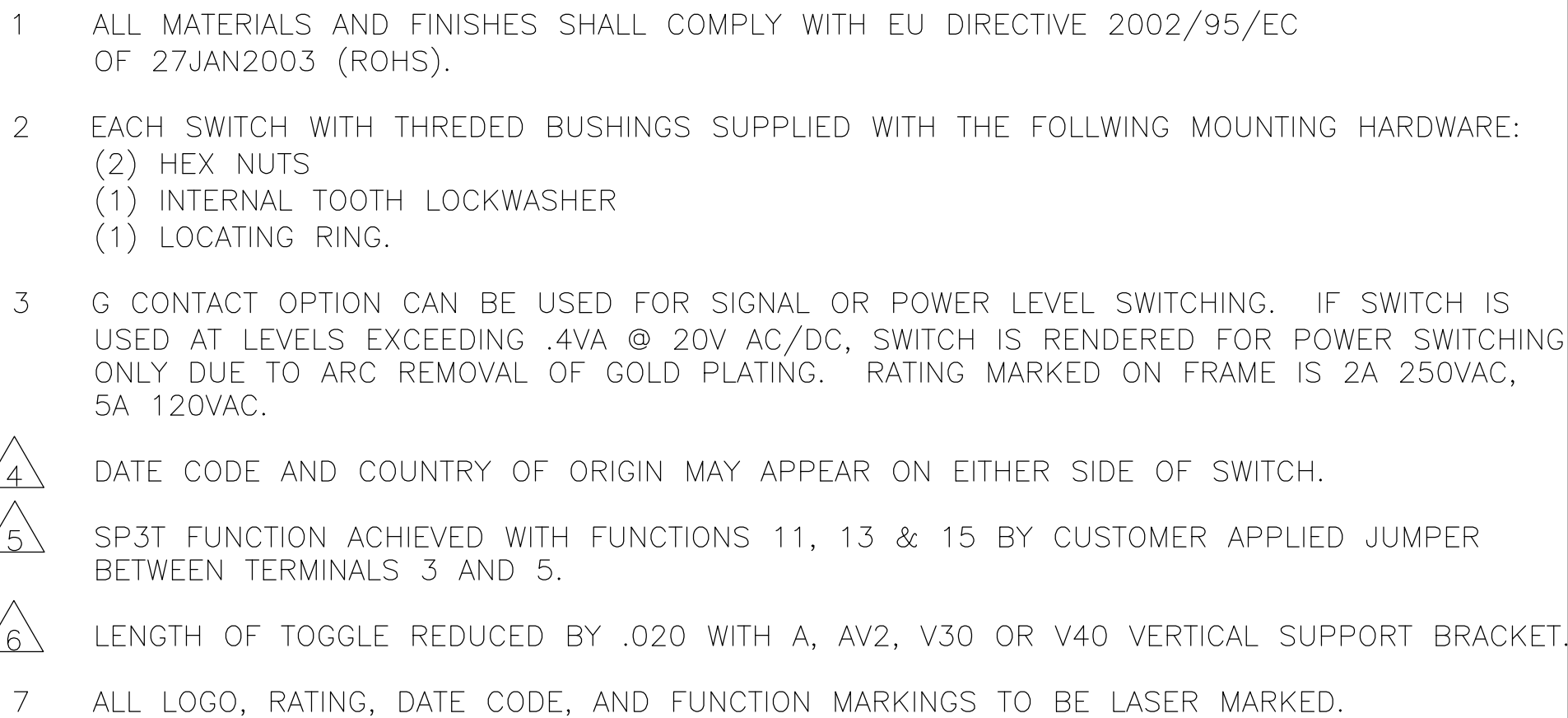
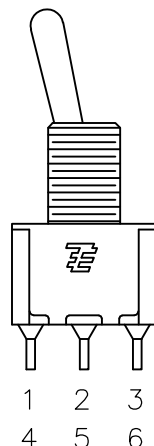
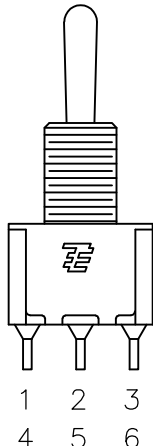
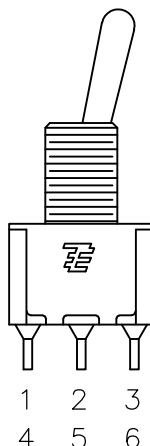
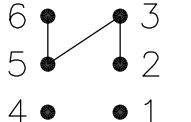
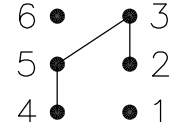
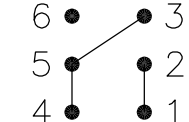




| SPECIFICATIONS CHART            |                                          |
|---------------------------------|------------------------------------------|
| RATING, B CONTACTS              | .4VA MAX @20V MAX. AC OR DC              |
| RATING, G CONTACTS—SEE NOTE 3   | .4VA MAX @20V MAX. AC OR DC 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 |    |
| SAMPLE: A207SYZQ04         | 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     |      |    |
|                            |          |        | P3      |          | W       |      |    |
|                            |          |        | S       |          | W4      |      |    |
|                            |          |        | T       |          | Z       |      |    |
|                            |          |        | T1      |          | Z3      |      |    |

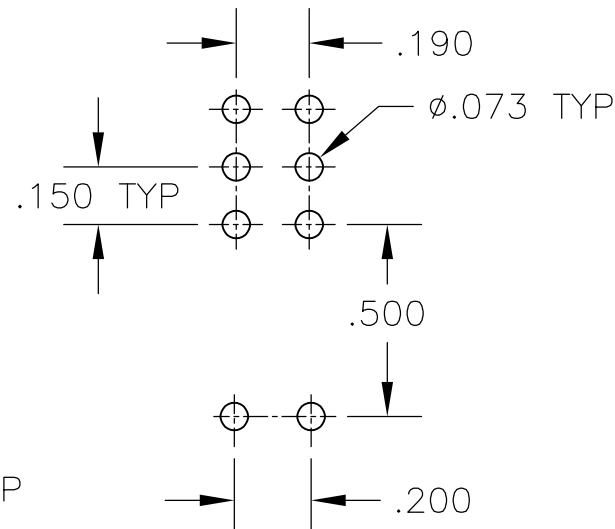
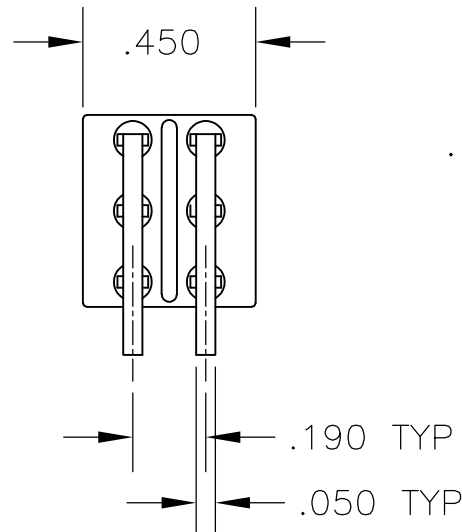
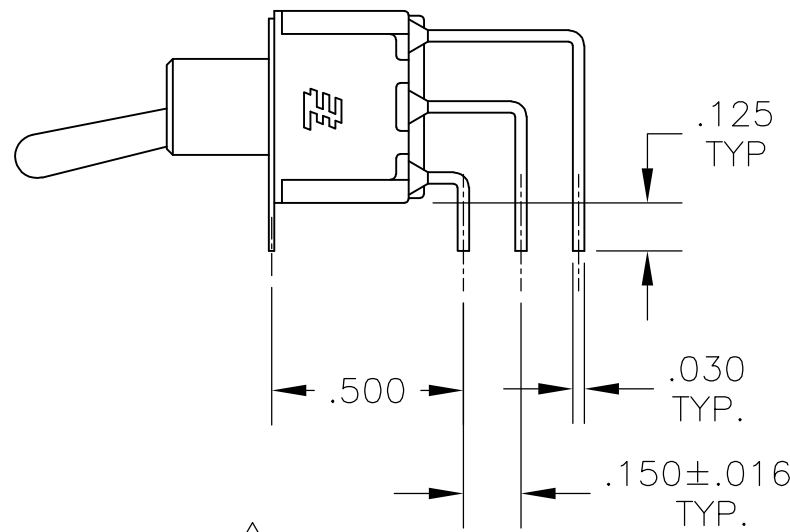
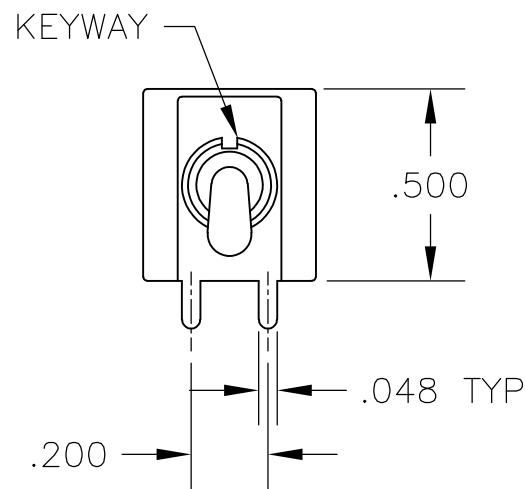
| FUNCTION CHART                                                                                                   |                                                                                     |                                                                                     |                                                                                       |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| FUNCTION                                                                                                         |  |  |  |
| 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<br>(11, 13 & 15 ONLY)<br>SEE NOTE 5                                                               |  |  |   |
|                                                                                                                  | IN 2, OUT 6                                                                         | IN 2, OUT 4                                                                         | IN 2, OUT 1                                                                           |
| None: No mechanical position<br>Off: Mechanical position with no electrical connection<br>(On): Momentary action |                                                                                     |                                                                                     |                                                                                       |

|                                                                                       |  |                                                                                                                           |  |                                                                                                                                                                                                                                                                                                          |  |                 |  |
|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br>M. ZITTO<br>18MAY05<br>CHK<br>M. ZITTO<br>APVD<br>M. ZITTO<br>PRODUCT SPEC<br>APPLICATION SPEC<br>—<br>WEIGHT<br>0 |  |  TE Connectivity<br>NAME<br>GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE,<br>3 POSITION FUNCTIONS (03, 05, 07, 11, 13 & 15)<br>—<br>SIZE<br>A2<br>CAGE CODE<br>00779<br>DRAWING NO<br>C=1825139<br>RESTRICTED TO<br>— |  |                 |  |
| DIMENSIONS:<br>INCHES                                                                 |  | TOLERANCES, UNLESS<br>OTHERWISE SPECIFIED:                                                                                |  |                                                                                                                                                                                                                                                                                                          |  |                 |  |
|  |  | 0 PLC ± —<br>1 PLC ± —<br>2 PLC ± —<br>3 PLC ± .010<br>4 PLC ± —<br>ANGLES ± 2°                                           |  |                                                                                                                                                                                                                                                                                                          |  |                 |  |
| MATERIAL<br>—                                                                         |  | FINISH<br>—                                                                                                               |  |                                                                                                                                                                                                                                                                                                          |  |                 |  |
| CUSTOMER DRAWING                                                                      |  |                                                                                                                           |  | SCALE<br>3:1                                                                                                                                                                                                                                                                                             |  | SHEET<br>1 of 4 |  |
|                                                                                       |  |                                                                                                                           |  | REV<br>A5                                                                                                                                                                                                                                                                                                |  |                 |  |



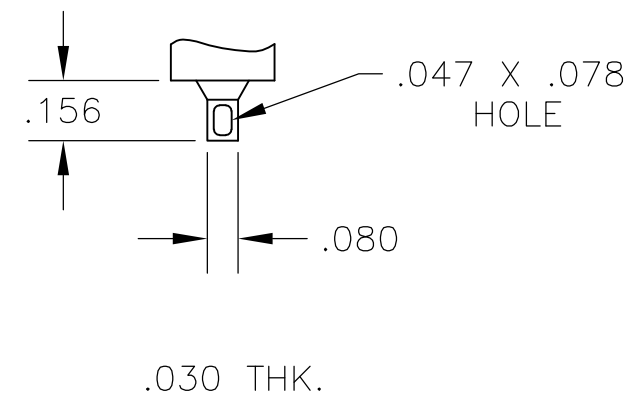
| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
| -         | -   | SEE SHEET 1 | -    | -   | -    |

D



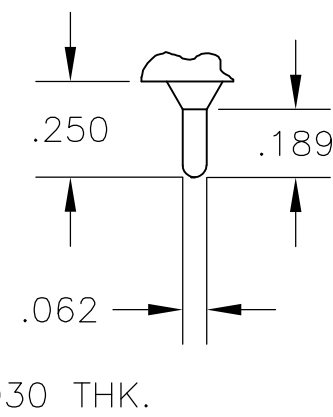
RECOMMENDED  
PCB LAYOUT

AV2 VERTICAL RIGHT ANGLE



.030 THK.

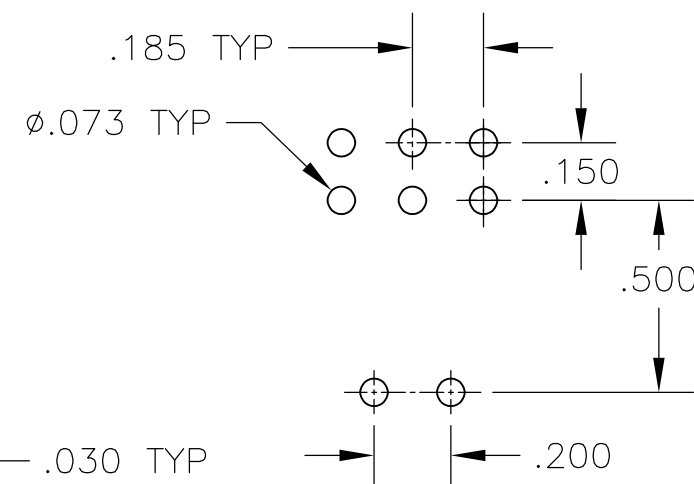
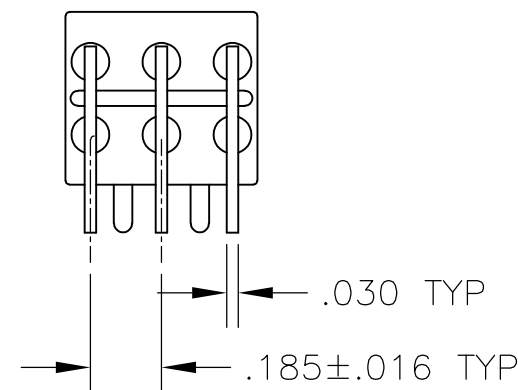
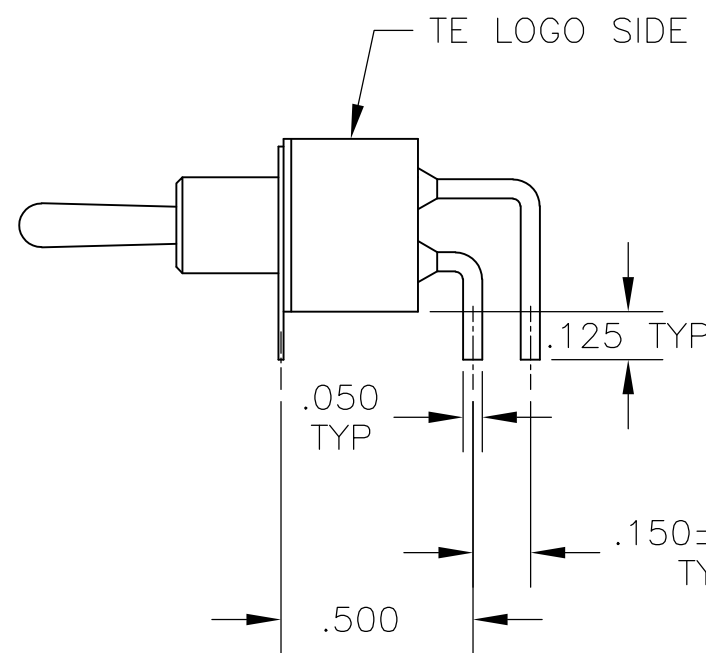
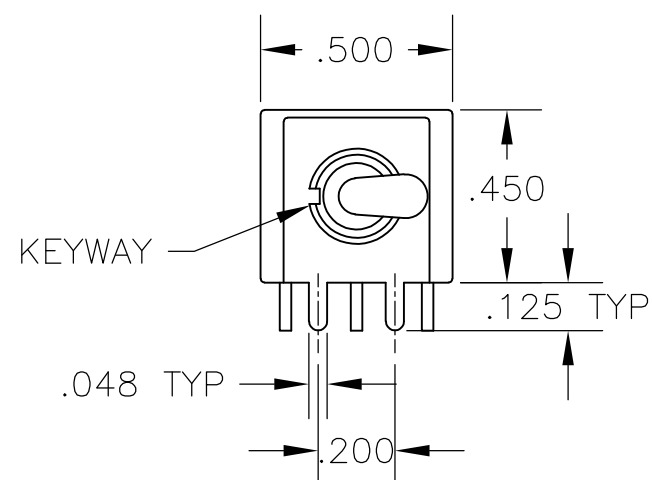
Z WIRE LUG



.030 THK.

Z3 QUICK CONNECT

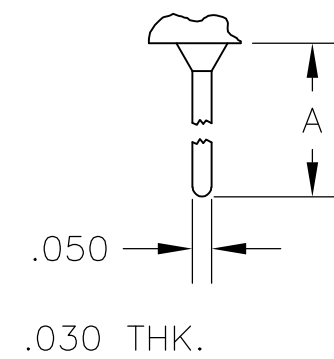
C



RECOMMENDED  
PCB LAYOUT

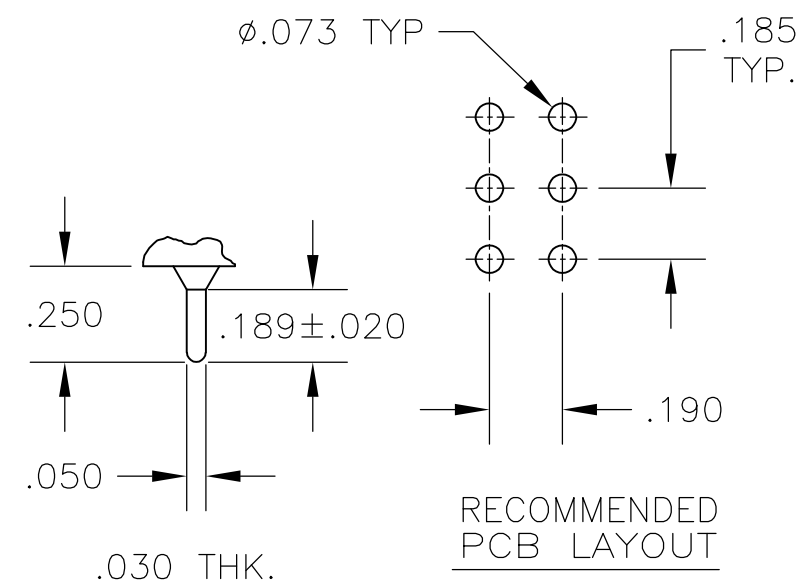
A RIGHT ANGLE

| OPTION | DIM A |
|--------|-------|
| W      | .736  |
| W4     | 1.062 |



.030 THK.

W W4 WIRE WRAP

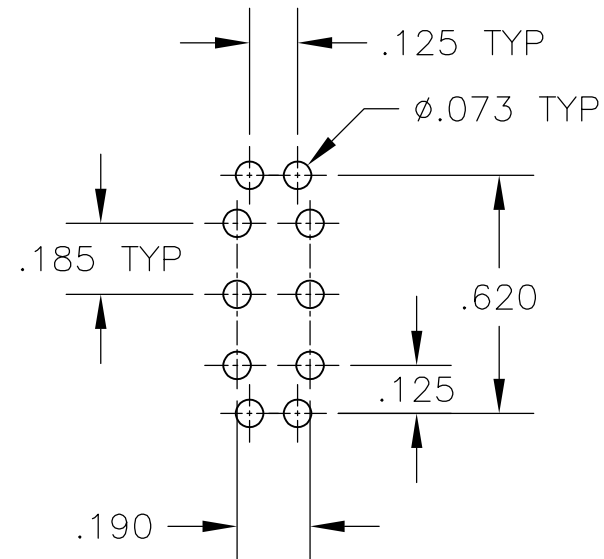
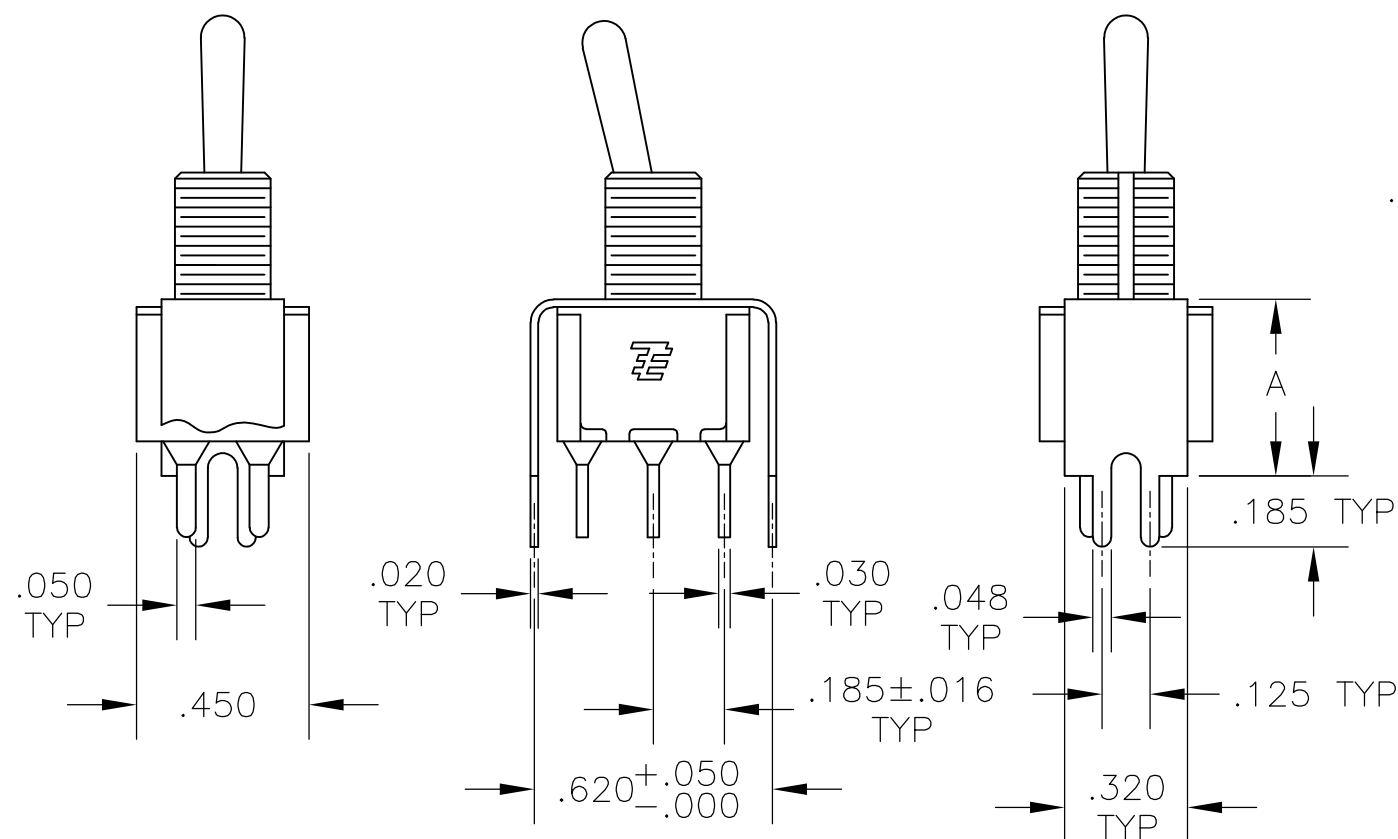


.030 THK.

RECOMMENDED  
PCB LAYOUT

C PRINTED CIRCUIT

B



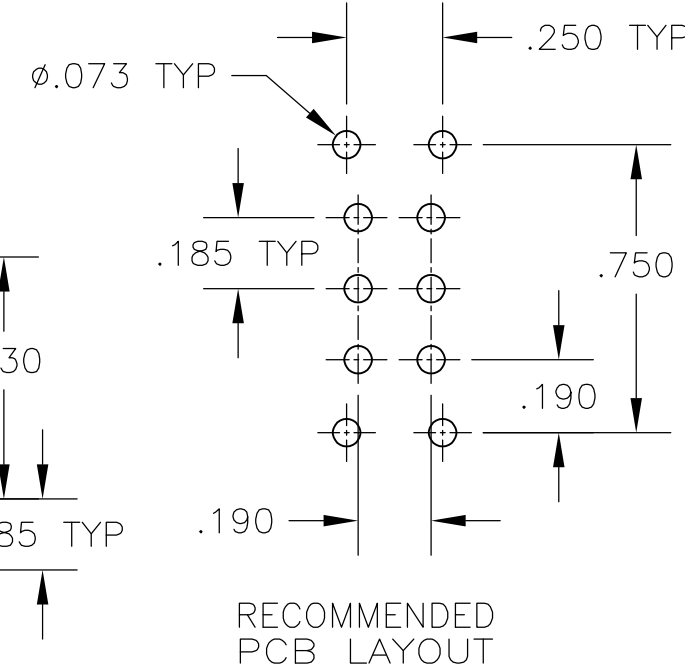
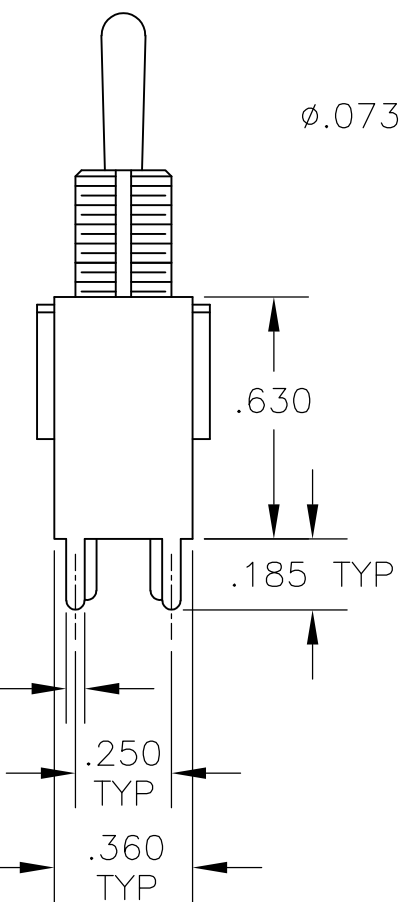
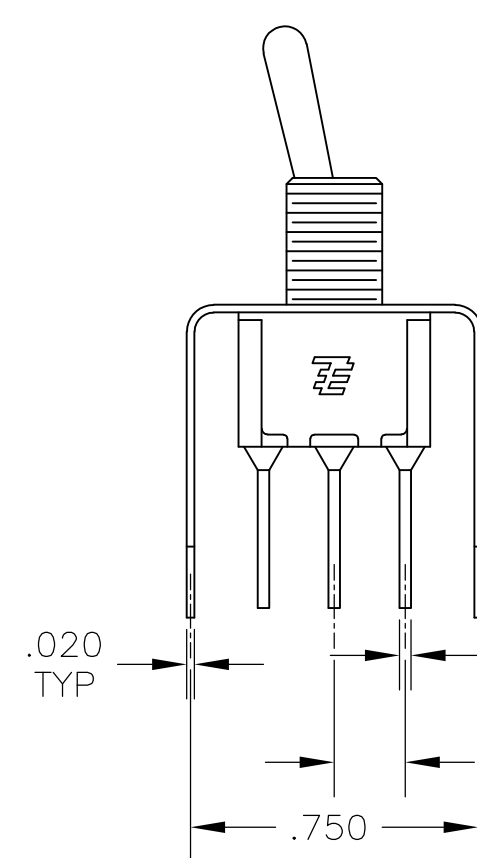
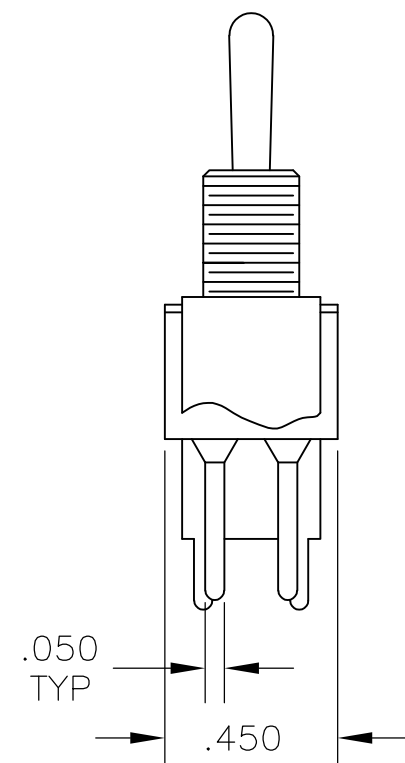
RECOMMENDED  
PCB LAYOUT

| OPTION | DIM A |
|--------|-------|
| V30    | .460  |
| V40    | .630  |

V30 V40   
VERTICAL SUPPORT BRACKET

V70

VERTICAL SUPPORT BRACKET



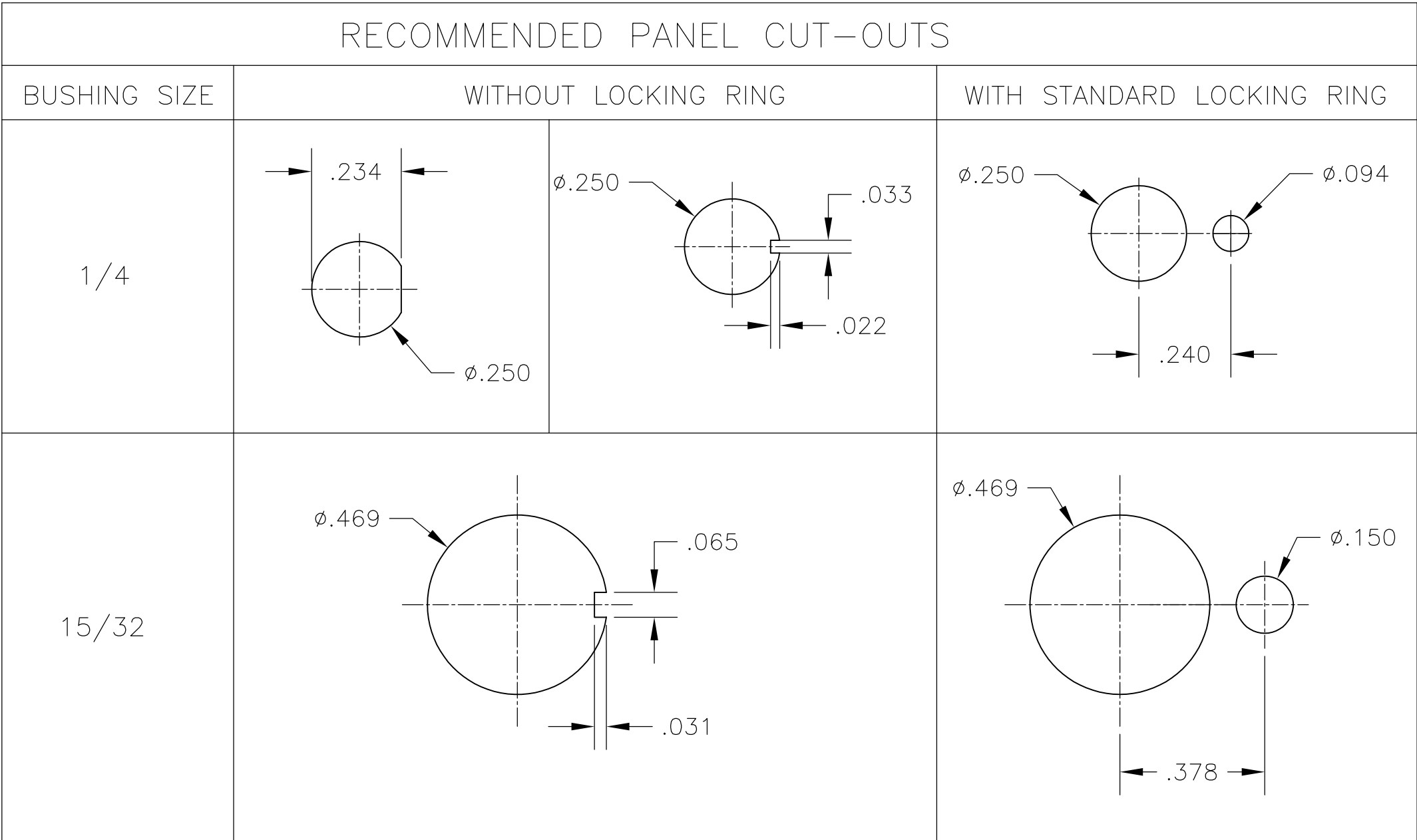
RECOMMENDED  
PCB LAYOUT

A

|                                        |  |                  |              |                                                                                                       |                    |
|----------------------------------------|--|------------------|--------------|-------------------------------------------------------------------------------------------------------|--------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>M. ZITTO  | 14APR05      | TE Connectivity                                                                                       |                    |
| DIMENSIONS:<br>INCHES                  |  | CHK<br>M. ZITTO  | -            |                                                                                                       |                    |
|                                        |  | APVD<br>M. ZITTO | -            | NAME<br>GEMINI A SERIES TOGGLE SWITCH, DOUBLE POLE,<br>3 POSITION FUNCTIONS (03, 05, 07, 11, 13 & 15) |                    |
|                                        |  | PRODUCT SPEC     | -            | -                                                                                                     |                    |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | APPLICATION SPEC | -            | SIZE<br>A2                                                                                            | CAGE CODE<br>00779 |
| MATERIAL<br>-                          |  | WEIGHT<br>-      | -            | DRAWING NO<br>C=1825139                                                                               | RESTRICTED TO<br>- |
| FINISH<br>-                            |  | CUSTOMER DRAWING | SCALE<br>2:1 | SHEET<br>3 of 4                                                                                       | REV<br>A5          |

| 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 |
| A203LYCQ04    | 4-1825139-6 |
| A203LD9CQ04   | 4-1825139-7 |
| A203LDCQ04    | 4-1825139-8 |



| 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

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  
3:1

SHEET  
4 of 4

REV  
A5

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  
-