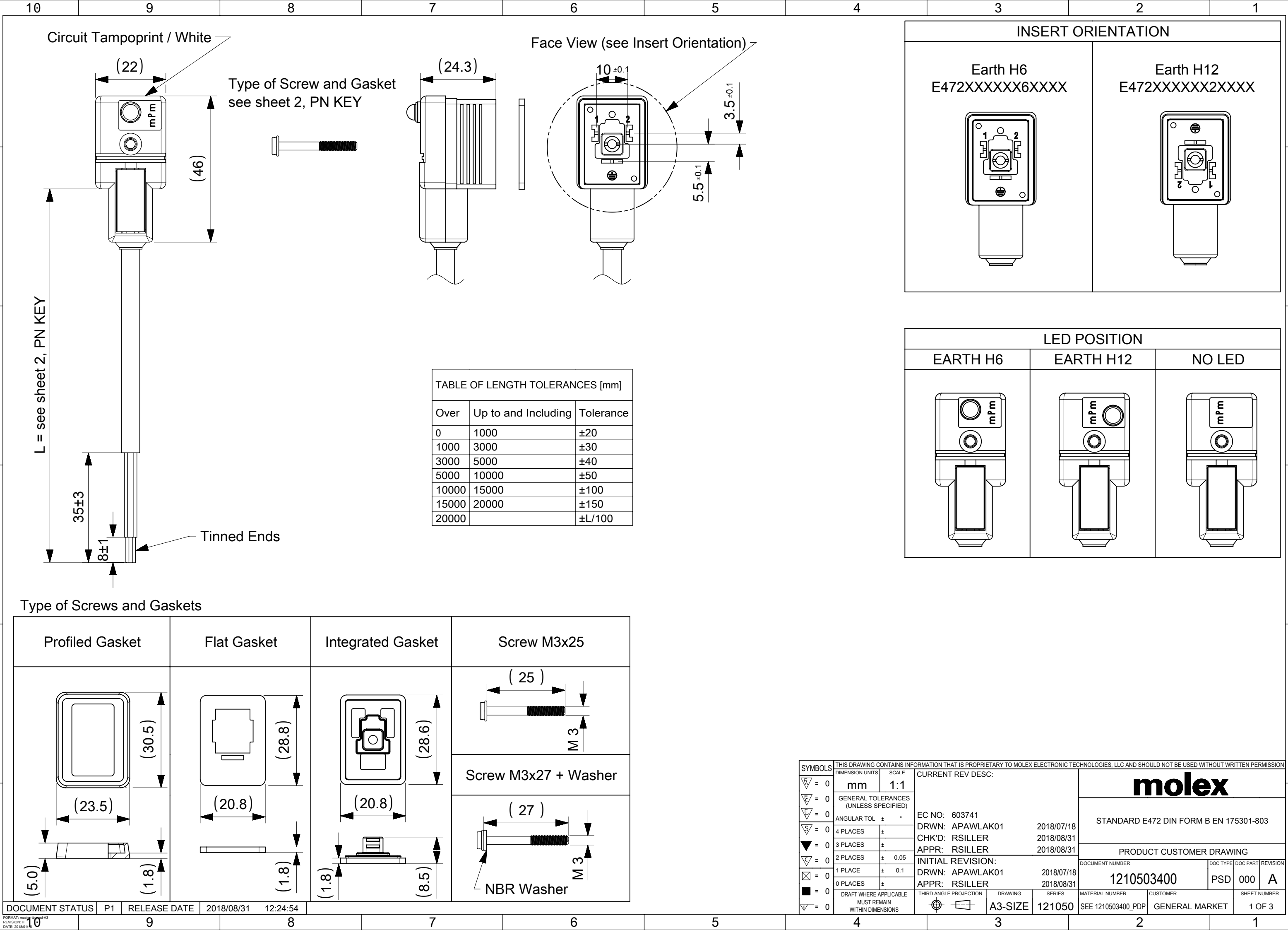




PN KEY ENGINEERING PN

E

4

7

2

X

X

X

X

X

X

X

X

X

X

X

E - Packing without bag  
W - Single Packing

Number of wires:  
2 - 2 Wires + Earth

Cable type:  
See Table

Head Colour:  
G - Grey  
N - Black  
A - CSA-UL Black  
B - CSA-UL Grey

Cable Length in[cm]  
050 = 50cm  
300 = 300cm  
10K = 1000cm

Earth PIN location (see insert orientation table):  
2 = Earth on H12  
6 = Earth on H6

Wiring Configuration:  
See sheet 3

Voltage and Led Colour

|          |            |             |
|----------|------------|-------------|
| Red Led: | Green Led: | Yellow Led: |
| 1 = 12V  | A = 12V    | G = 12V     |
| 2 = 24V  | B = 24V    | H = 24V     |
| 3 = 48V  | C = 48V    | K = 48V     |
| 4 = 115V | D = 115V   | L = 115V    |
| 5 = 230V | E = 230V   | M = 230V    |

Type of Gasket and Screw (see sheet 1):  
1 = NBR Profile Gasket + Fixing Screw M3x25mm  
2 = NBR Flat Gasket + Fixing Screw M3x25mm  
3 = Silicone Profile Gasket + Fixing Screw M3x25mm  
4 = Silicone Flat Gasket + Fixing Screw M3x25mm  
P = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm Assembled on Connector  
R = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm NOT Assembled on Connector  
T = NBR Profile Gasket + Fixing Screw with Washer M3x27mm

| CABLE TYPE | NO. OF WIRES | CROSS SECTION | CABLE O.D.  | CABLE JACKET | UL       | CSA       | STATIC: TEMP. / BENDING RADIUS | DYNAMIC: TEMP. / BENDING RADIUS | SHIELD |
|------------|--------------|---------------|-------------|--------------|----------|-----------|--------------------------------|---------------------------------|--------|
| A2         | 3            | AWG 20        | 5.6mm±0.2   | PVC BLACK    | UL 2661  | CSA C22.2 | -30°C to +105°C, 10xO.D.       | -5°C to +105°C, 15xO.D.         | -      |
| A3         | 3            | AWG 18        | 6.5mm±0.25  | PVC BLACK    | UL 2661  | CSA C22.2 | -30°C to +105°C, 10xO.D.       | -5°C to +105°C, 15xO.D.         | -      |
| B2         | 3            | AWG 20        | 5.6mm±0.2   | PUR BLACK    | UL 20668 | CSA C22.2 | -40°C to +90°C, 5xO.D.         | -25°C to +90°C, 10xO.D.         | -      |
| B3         | 3            | AWG 18        | 6.5mm±0.2   | PUR BLACK    | UL 20668 | CSA C22.2 | -40°C to +90°C, 5xO.D.         | -25°C to +90°C, 10xO.D.         | -      |
| F4         | 3            | 1mm²          | 7.1mm+0.2   | PVC GREY     | -        | -         | -15°C to +70°C, 10xO.D.        | -5°C to +60°C, 15xO.D.          | -      |
| I0         | 3            | 1mm²          | 7.6mm±0.2   | PVC GREY     | -        | -         | -25°C to +70°C, 10xO.D.        | -5°C to +70°C, 15xO.D.          | YES    |
| I2         | 3            | 0.5mm²        | 5.5mm+0.3   | PVC GREY     | -        | -         | -25°C to +70°C, 10xO.D.        | -5°C to +70°C, 15xO.D.          | -      |
| I3         | 3            | 0.75mm²       | 6.0mm±0.2   | PVC GREY     | -        | -         | -25°C to +70°C, 10xO.D.        | -5°C to +70°C, 15xO.D.          | -      |
| I4         | 3            | 1mm²          | 7.1mm+0.2   | PVC GREY     | -        | -         | -25°C to +70°C, 10xO.D.        | -5°C to +70°C, 15xO.D.          | -      |
| N2         | 3            | 0.5mm²        | 5.6mm±0.7   | PVC BLACK    | -        | -         | -20°C to +70°C, 3xO.D.         | -15°C to +70°C, 5xO.D.          | -      |
| N3         | 3            | 0.75mm²       | 6.8mm±0.8   | PVC BLACK    | -        | -         | -20°C to +70°C, 3xO.D.         | -15°C to +70°C, 5xO.D.          | -      |
| N4         | 3            | 1mm²          | 7.15mm±0.85 | PVC BLACK    | -        | -         | -20°C to +70°C, 3xO.D.         | -15°C to +70°C, 5xO.D.          | -      |
| P1         | 3            | 0.34mm²       | 5.3mm±0.2   | PUR BLACK    | -        | -         | -25°C to +80°C, 10xO.D.        | -5°C to +80°C, 15xO.D.          |        |
| P2         | 3            | 0.5mm²        | 5.5mm+0.3   | PUR BLACK    | -        | -         | -40°C to +90°C, 7.5xO.D.       | -15°C to +90°C, 12.5xO.D.       | -      |
| P3         | 3            | 0.75mm²       | 6.5mm±0.2   | PUR BLACK    | -        | -         | -40°C to +90°C, 7.5xO.D.       | -15°C to +90°C, 12.5xO.D.       | -      |

Notes:

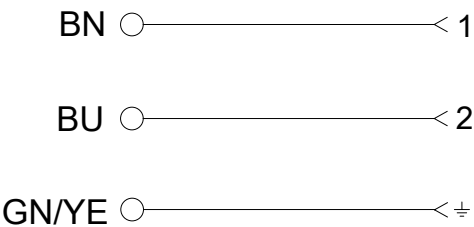
1. Please see excel sheet 1210503400\_PDP for currently configured part numbers.
2. Drawing is a replacement for: SD-121050-005

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2018/08/31 | 12:24:54 |
|-----------------|----|--------------|------------|----------|

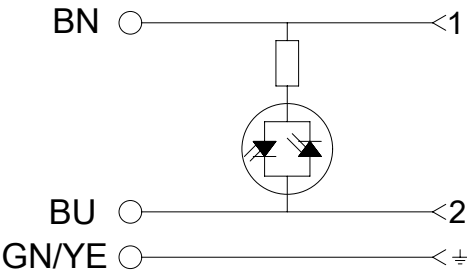
| SYMBOLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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WIRING DIAGRAMS

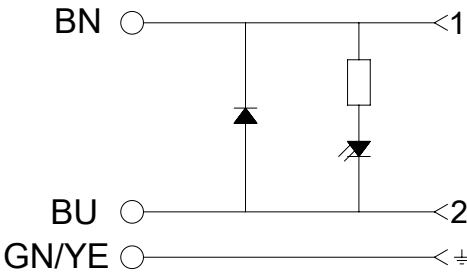
ELECTRICAL DIAGRAM 00



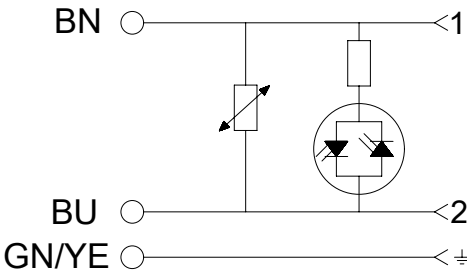
ELECTRICAL DIAGRAM A1



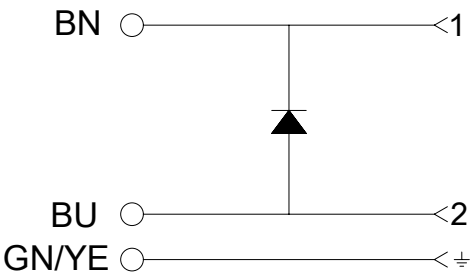
ELECTRICAL DIAGRAM C3



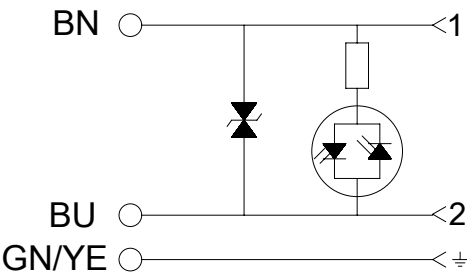
ELECTRICAL DIAGRAM C4



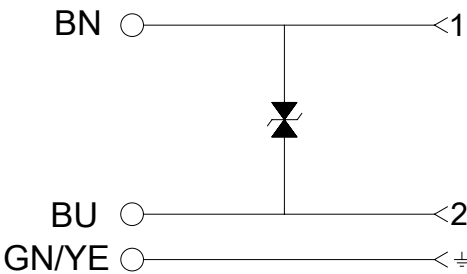
ELECTRICAL DIAGRAM E0



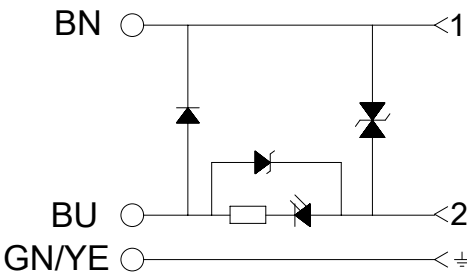
ELECTRICAL DIAGRAM S0



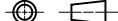
ELECTRICAL DIAGRAM S1



ELECTRICAL DIAGRAM NS



Technical Spec:  
Supply Voltage: See PN KEY  
Max. current: 5A; A1-C4-S0  
1,5A; R2  
Contact Resistance: ≤15milliohms max.  
Operating Temperature:  
with NBR Gasket: -40°C +90°C  
with Silicone: -40°C +125°C

| SYMBOLS                                                                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |       |  |                                                                                       |  |  |                                        |  |                |  |              |  |          |  |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|---------------------------------------------------------------------------------------|--|--|----------------------------------------|--|----------------|--|--------------|--|----------|--|
|  = 0 | DIMENSION UNITS                                                                                                                               |  | SCALE |  | CURRENT REV DESC:                                                                     |  |  | <div>molex</div>                       |  |                |  |              |  |          |  |
|                                                                                           | mm                                                                                                                                            |  | 1:1   |  |                                                                                       |  |  |                                        |  |                |  |              |  |          |  |
|  = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |       |  | EC NO: 603741                                                                         |  |  | STANDARD E472 DIN FORM B EN 175301-803 |  |                |  |              |  |          |  |
|  = 0 |                                                                                                                                               |  |       |  |                                                                                       |  |  |                                        |  |                |  |              |  |          |  |
|  = 0 | ANGULAR TOL ± °                                                                                                                               |  |       |  | DRWN: APAWLAK01 2018/07/18                                                            |  |  | PRODUCT CUSTOMER DRAWING               |  |                |  |              |  |          |  |
|  = 0 | 4 PLACES ±                                                                                                                                    |  |       |  | CHK'D: RSILLER 2018/08/31                                                             |  |  |                                        |  |                |  |              |  |          |  |
|  = 0 | 3 PLACES ±                                                                                                                                    |  |       |  | APPR: RSILLER 2018/08/31                                                              |  |  | DOCUMENT NUMBER                        |  |                |  |              |  |          |  |
|  = 0 | 2 PLACES ± 0.05                                                                                                                               |  |       |  | INITIAL REVISION:                                                                     |  |  |                                        |  |                |  | 1210503400   |  | DOC TYPE |  |
|  = 0 | 1 PLACE ± 0.1                                                                                                                                 |  |       |  | DRWN: APAWLAK01 2018/07/18                                                            |  |  |                                        |  |                |  |              |  |          |  |
|  = 0 | 0 PLACES ±                                                                                                                                    |  |       |  | APPR: RSILLER 2018/08/31                                                              |  |  | MATERIAL NUMBER                        |  | CUSTOMER       |  | SHEET NUMBER |  |          |  |
|  = 0 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |  |       |  | THIRD ANGLE PROJECTION                                                                |  |  |                                        |  |                |  |              |  | A3-SIZE  |  |
|  = 0 |                                                          |  |       |  |  |  |  | SEE 1210503400_PDP                     |  | GENERAL MARKET |  | 3 OF 3       |  |          |  |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2018/08/31 | 12:24:54 |
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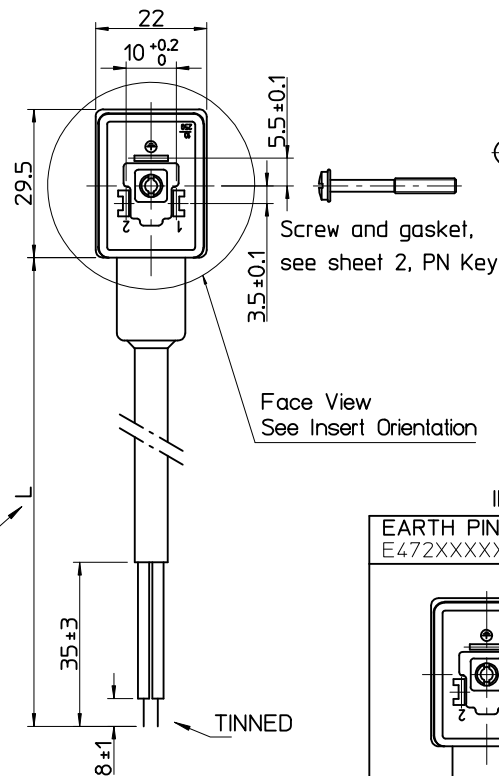
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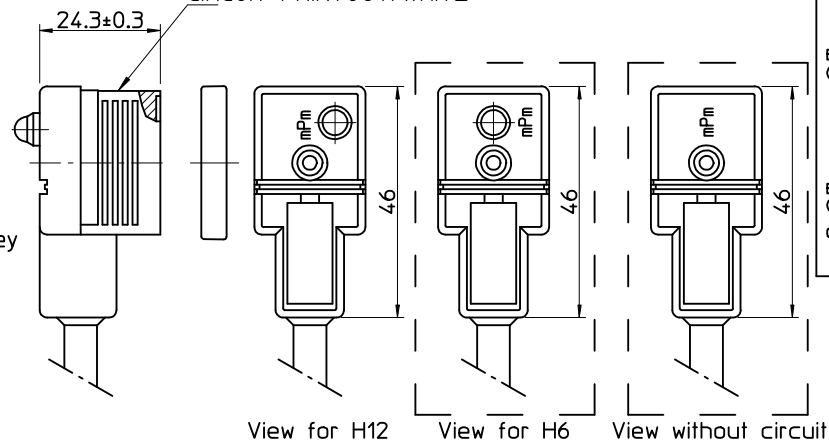
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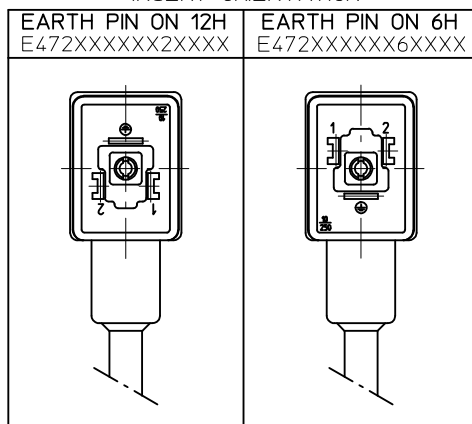
1



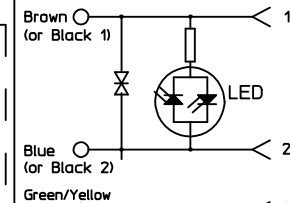
CIRCUIT PRINTOUT/WHITE



INSERT ORIENTATION



ELECTRICAL DIAGRAM S0



ELECTRICAL DIAGRAM C4

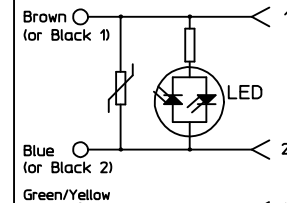
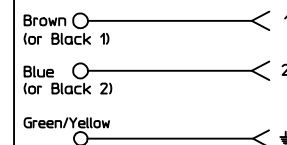
ELECTRICAL DIAGRAM 00  
WITHOUT LED

Table of length tolerances [mm]

| Over  | Up to and including | Tolerance (+) |
|-------|---------------------|---------------|
| 0     | 1000                | ±20           |
| 1000  | 3000                | ±30           |
| 3000  | 5000                | ±40           |
| 5000  | 10000               | ±50           |
| 10000 | 15000               | ±100          |
| 15000 | 20000               | ±150          |
| 20000 |                     | ±L/100        |

DRAWING UPDATE

EC NO: IPG2013-1497

DRWN: JMARSZALEK 2013/03/27

CHKD: MDYSZEWSKA 2013/03/27

APPR: MIWASIECZKO 2013/03/28

QUALITY SYMBOLS

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|          | mm   | INCH |
|----------|------|------|
| 4 PLACES | ±--- | ±--- |
| 3 PLACES | ±--- | ±--- |
| 2 PLACES | ±--- | ±--- |
| 1 PLACE  | ±--- | ±--- |
| 0 PLACE  | ±--- | ±--- |

ANGULAR ±---°

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONSDIMENSION STYLE  
MM ONLY

|              |            |
|--------------|------------|
| DRAWN BY     | DATE       |
| JMARSZALEK   | 2012/11/19 |
| CHECKED BY   | DATE       |
| MSZWAJKOWSKI | 2012/11/20 |
| APPROVED BY  | DATE       |
| MIWASIECZKO  | 2013/02/12 |

MATERIAL NO.

SEE SHEET 2&amp;3

SIZE A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE

DESIGN UNITS  
METRICFIRST ANGLE  
PROJECTIONE472XXXXXXXXXXXX  
FORM B  
EN 175301-803

molex

DOCUMENT NO.

SD-121050-005

SHEET NO.

1 OF 4

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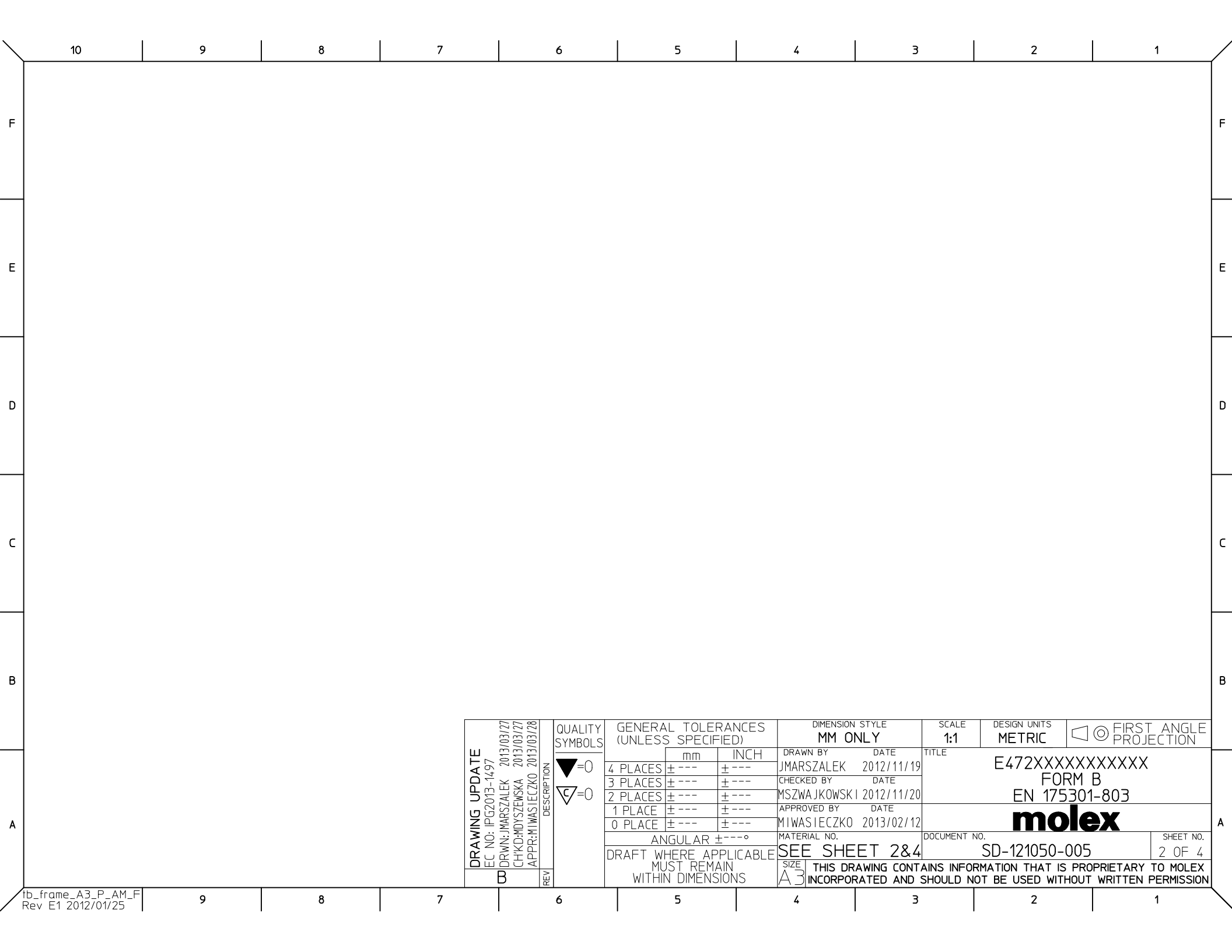
5

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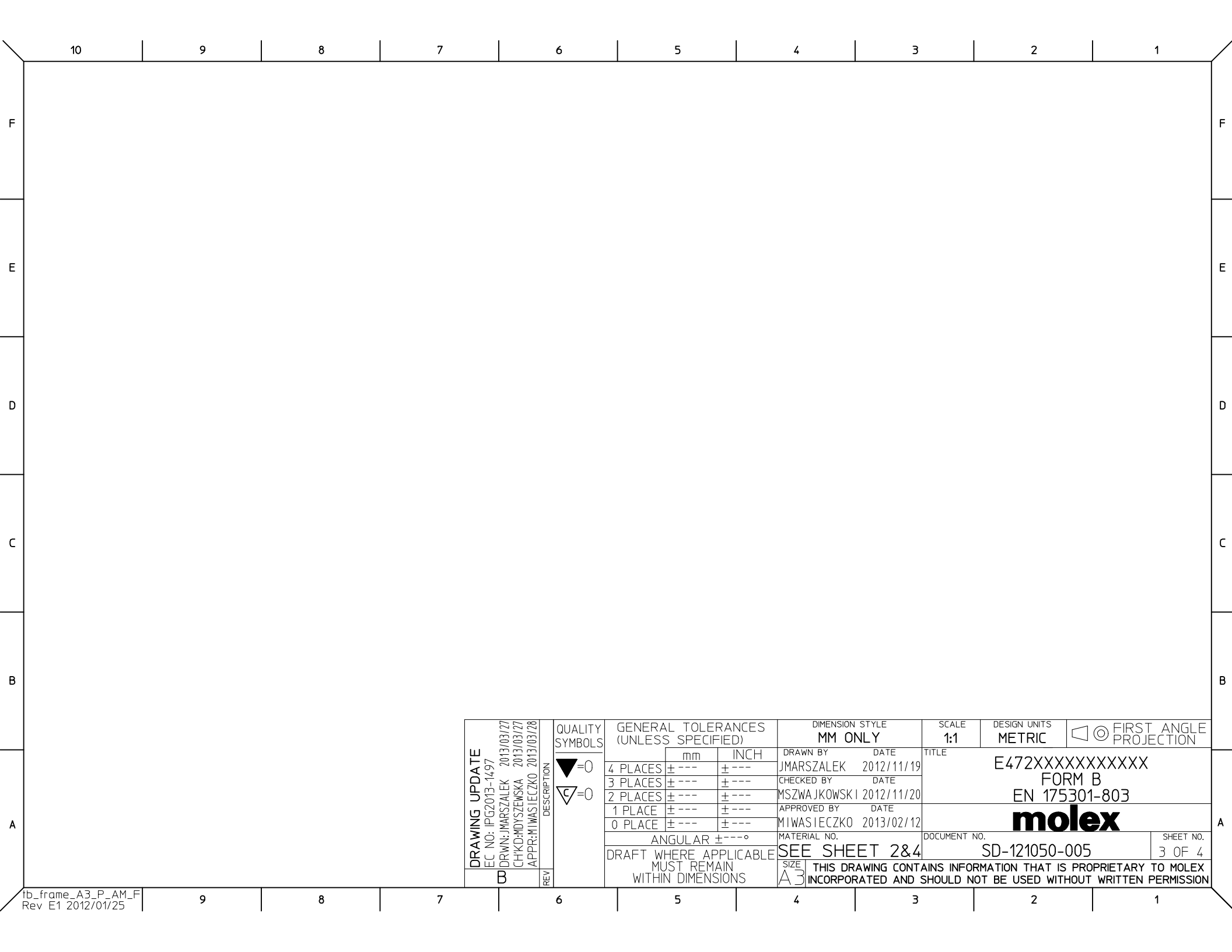
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|                                                                                                                                     |     |             |                                   |                                                      |      |                            |                                                                                                                               |                    |                                                                      |                                                                                                              |           |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|-----------------------------------|------------------------------------------------------|------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------|--|
| DRAWING UPDATE<br>EC NO: IPG2013-1497<br>DRWN: JMARSZALEK 2013/03/27<br>CHKD: MDYSZEWSKA 2013/03/27<br>APPR: MIWASIECZKO 2013/03/28 | REV | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |      | DIMENSION STYLE<br>MM ONLY |                                                                                                                               | SCALE<br>1:1       | DESIGN UNITS<br>METRIC                                               |  FIRST ANGLE PROJECTION |           |  |
|                                                                                                                                     |     |             |                                   |                                                      | mm   | INCH                       | DRAWN BY<br>JMARSZALEK                                                                                                        | DATE<br>2012/11/19 | TITLE<br>E472XXXXXXXXXXXX<br>FORM B<br>EN 175301-803<br><b>molex</b> |                                                                                                              |           |  |
|                                                                                                                                     |     |             |                                   | 4 PLACES                                             | ±--- | ±---                       | CHECKED BY                                                                                                                    | DATE               |                                                                      |                                                                                                              |           |  |
|                                                                                                                                     |     |             |                                   | 3 PLACES                                             | ±--- | ±---                       | MSZWAJKOWSKI                                                                                                                  | 2012/11/20         |                                                                      |                                                                                                              |           |  |
|                                                                                                                                     |     |             |                                   | 2 PLACES                                             | ±--- | ±---                       | APPROVED BY                                                                                                                   | DATE               |                                                                      |                                                                                                              |           |  |
|                                                                                                                                     |     |             |                                   | 1 PLACE                                              | ±--- | ±---                       | MIWASIECZKO                                                                                                                   | 2013/02/12         |                                                                      |                                                                                                              |           |  |
|                                                                                                                                     |     |             |                                   | 0 PLACE                                              | ±--- | ±---                       | MATERIAL NO.                                                                                                                  |                    | DOCUMENT NO.                                                         |                                                                                                              | SHEET NO. |  |
|                                                                                                                                     |     |             |                                   | ANGULAR ±---°                                        |      |                            | SEE SHEET 2&4                                                                                                                 |                    | SD-121050-005                                                        |                                                                                                              | 2 OF 4    |  |
|                                                                                                                                     |     |             |                                   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |      |                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                                      |                                                                                                              |           |  |
|                                                                                                                                     |     |             |                                   | SIZE A3                                              |      |                            |                                                                                                                               |                    |                                                                      |                                                                                                              |           |  |



|                                                                                                                                     |     |             |                                   |                                                      |                                                                                                                               |                 |              |            |                                                             |                                                                                                              |       |               |                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|-----------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------|---------------|---------------------|--|
| DRAWING UPDATE<br>EC NO: IPG2013-1497<br>DRWN: JMARSZALEK 2013/03/27<br>CHKD: MDYSZEWSKA 2013/03/27<br>APPR: MIWASIECZKO 2013/03/28 | REV | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |                                                                                                                               | DIMENSION STYLE |              | SCALE      | DESIGN UNITS                                                |  FIRST ANGLE PROJECTION | TITLE |               |                     |  |
|                                                                                                                                     |     |             |                                   |                                                      |                                                                                                                               | MM ONLY         |              | 1:1        | METRIC                                                      |                                                                                                              |       |               |                     |  |
|                                                                                                                                     |     |             |                                   |                                                      | mm                                                                                                                            | INCH            | DRAWN BY     | DATE       | E472XXXXXXXXXXXX<br>FORM B<br>EN 175301-803<br><b>molex</b> |                                                                                                              |       |               |                     |  |
|                                                                                                                                     |     |             |                                   | 4 PLACES                                             | ±---                                                                                                                          | ±---            | JMARSZALEK   | 2012/11/19 |                                                             |                                                                                                              |       |               |                     |  |
|                                                                                                                                     |     |             |                                   | 3 PLACES                                             | ±---                                                                                                                          | ±---            | CHECKED BY   | DATE       |                                                             |                                                                                                              |       |               |                     |  |
|                                                                                                                                     |     |             |                                   | 2 PLACES                                             | ±---                                                                                                                          | ±---            | MSZWAJKOWSKI | 2012/11/20 |                                                             |                                                                                                              |       |               |                     |  |
|                                                                                                                                     |     |             |                                   | 1 PLACE                                              | ±---                                                                                                                          | ±---            | APPROVED BY  | DATE       |                                                             |                                                                                                              |       |               |                     |  |
|                                                                                                                                     |     |             |                                   | 0 PLACE                                              | ±---                                                                                                                          | ±---            | MIWASIECZKO  | 2013/02/12 | DOCUMENT NO.                                                |                                                                                                              |       | SD-121050-005 | SHEET NO.<br>3 OF 4 |  |
|                                                                                                                                     |     |             |                                   | ANGULAR ±---°                                        |                                                                                                                               | MATERIAL NO.    |              |            |                                                             |                                                                                                              |       |               |                     |  |
|                                                                                                                                     |     |             |                                   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                                                                                                                               | SEE SHEET 2&4   |              |            |                                                             |                                                                                                              |       |               |                     |  |
| B                                                                                                                                   |     |             |                                   | SIZE<br>A3                                           | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                 |              |            |                                                             |                                                                                                              |       |               |                     |  |

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|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------|--|----------------------------|--|-------------------------|------------------------|-------------------------------------------------------------|--|-----------|--|
| DRAWING UPDATE<br>EC NO: IPG2013-1497<br>DRWN: JMARZALEK 2013/03/27<br>CHKD: MDYSZEWSKA 2013/03/27<br>APPR: MIWASIECZKO 2013/03/28 | DESCRIPTION                                                                                                                   | QUALITY SYMBOLS<br><div>▼=0</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE<br>MM ONLY |  | SCALE<br>1:1            | DESIGN UNITS<br>METRIC | FIRST ANGLE PROJECTION                                      |  |           |  |
|                                                                                                                                    |                                                                                                                               |                                                  |                                                      |  |                            |  | TITLE                   |                        | E472XXXXXXXXXXXX<br>FORM B<br>EN 175301-803<br><b>molex</b> |  |           |  |
|                                                                                                                                    |                                                                                                                               |                                                  | mm                                                   |  | INCH                       |  | DRAWN BY DATE           |                        |                                                             |  |           |  |
|                                                                                                                                    |                                                                                                                               |                                                  | 4 PLACES ± ---                                       |  | ± ---                      |  | JMARZALEK 2012/11/19    |                        |                                                             |  |           |  |
|                                                                                                                                    |                                                                                                                               |                                                  | 3 PLACES ± ---                                       |  | ± ---                      |  | CHECKED BY DATE         |                        |                                                             |  |           |  |
|                                                                                                                                    |                                                                                                                               |                                                  | 2 PLACES ± ---                                       |  | ± ---                      |  | MSZWAJKOWSKI 2012/11/20 |                        |                                                             |  |           |  |
|                                                                                                                                    |                                                                                                                               |                                                  | 1 PLACE ± ---                                        |  | ± ---                      |  | APPROVED BY DATE        |                        | DOCUMENT NO.                                                |  | SHEET NO. |  |
|                                                                                                                                    |                                                                                                                               |                                                  | 0 PLACE ± ---                                        |  | ± ---                      |  | MIWASIECZKO 2013/02/12  |                        |                                                             |  |           |  |
|                                                                                                                                    |                                                                                                                               |                                                  | ANGULAR ± ---°                                       |  |                            |  | MATERIAL NO.            |                        |                                                             |  |           |  |
|                                                                                                                                    |                                                                                                                               |                                                  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | SEE SHEET 2&4              |  | SD-121050-005           |                        | 4 OF 4                                                      |  |           |  |
| REV                                                                                                                                | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                  |                                                      |  |                            |  |                         |                        |                                                             |  |           |  |
|                                                                                                                                    | SIZE A3                                                                                                                       |                                                  |                                                      |  |                            |  |                         |                        |                                                             |  |           |  |