

# PRODUCT INFORMATION PACKET



Model No: FDL1036  
Catalog No: FDL1036  
1/3 HP Fan & Blower Motor, 1075 RPM, 3 Speed, 115 Volts, 48 Frame, OAO  
Direct Drive Motors



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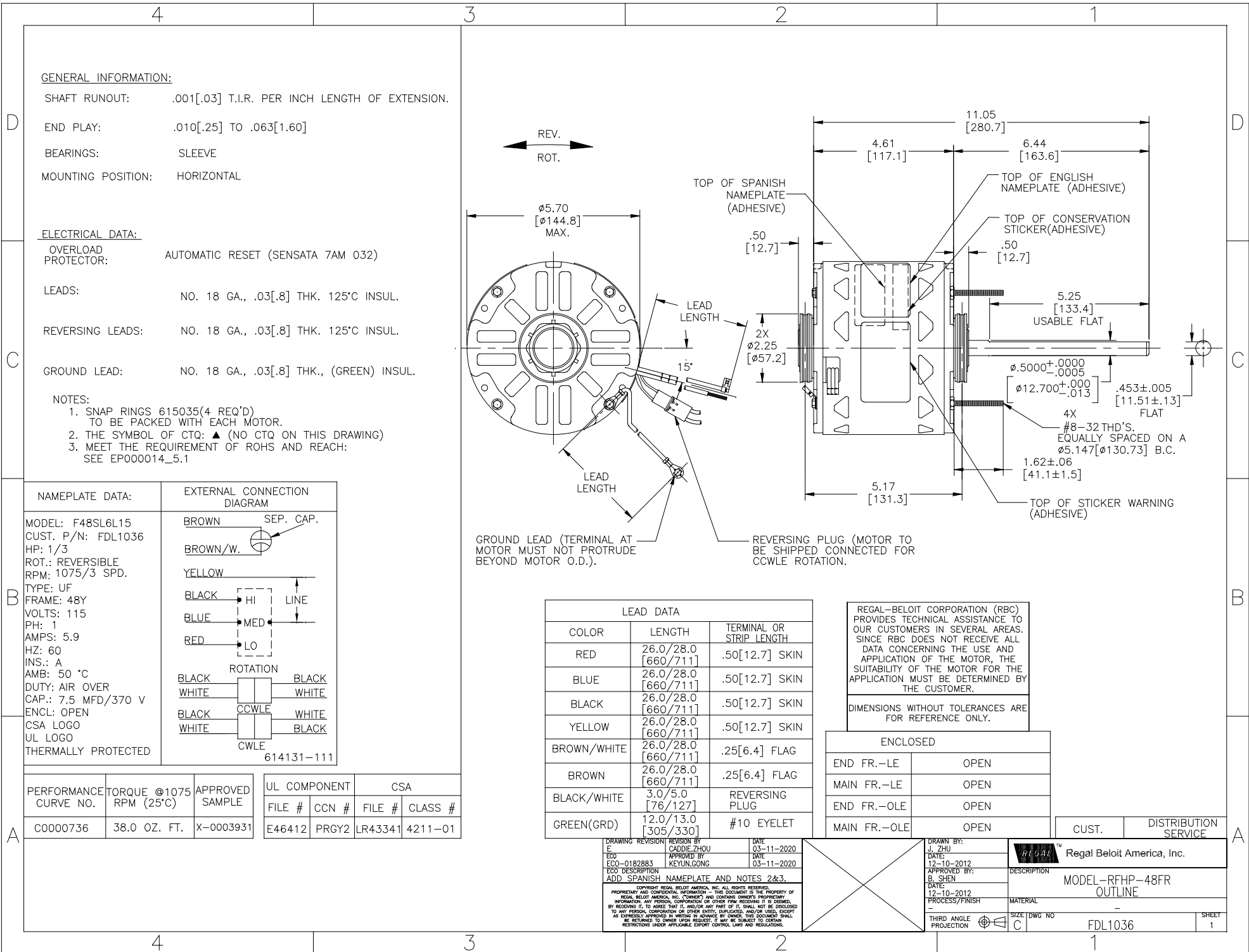
**Nameplate Specifications**

|                    |            |                     |               |
|--------------------|------------|---------------------|---------------|
| Output HP          | 1/3 Hp     | Output KW           | 0.25 kW       |
| Frequency          | 60 Hz      | Voltage             | 115 V         |
| Current            | 5.9 A      | Speed               | 1075 rpm      |
| Service Factor     | 1          | Phase               | 1             |
| Duty               | Air Over   | Insulation Class    | A             |
| Frame              | 48Y        | Enclosure           | Open Enclosed |
| Thermal Protection | Automatic  | Ambient Temperature | 50 °C         |
| UL                 | Recognized | CSA                 | Y             |
| CE                 | N          |                     |               |

**Technical Specifications**

|                   |                           |                       |                 |
|-------------------|---------------------------|-----------------------|-----------------|
| Electrical Type   | Permanent Split Capacitor | Starting Method       | Across The Line |
| Poles             | 6                         | Rotation              | Reversible      |
| Mounting          | Resilient Rings           | Motor Orientation     | Horizontal      |
| Drive End Bearing | Sleeve                    | Opp Drive End Bearing | Sleeve          |
| Frame Material    | Rolled Steel              | Shaft Type            | Flat            |
| Overall Length    | 11.55 in                  | Frame Length          | 4.00 in         |
| Shaft Diameter    | 0.500 in                  | Shaft Extension       | 6.4 in          |
| Outline Drawing   | FDL1036-S01               | Connection Drawing    | 614131-111      |

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**GENERAL INFORMATION:**

SHAFT RUNOUT: .001[.03] T.I.R. PER INCH LENGTH OF EXTENSION.  
 END PLAY: .010[.25] TO .063[1.60]  
 BEARINGS: SLEEVE  
 MOUNTING POSITION: HORIZONTAL

**ELECTRICAL DATA:**

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 032)  
 LEADS: NO. 18 GA., .03[.8] THK. 125°C INSUL.  
 REVERSING LEADS: NO. 18 GA., .03[.8] THK. 125°C INSUL.  
 GROUND LEAD: NO. 18 GA., .03[.8] THK., (GREEN) INSUL.

**NOTES:**

1. SNAP RINGS 615035(4 REQ'D) TO BE PACKED WITH EACH MOTOR.
2. THE SYMBOL OF CTQ: ▲ (NO CTQ ON THIS DRAWING)
3. MEET THE REQUIREMENT OF ROHS AND REACH: SEE EP000014\_5.1

| NAMEPLATE DATA:   | EXTERNAL CONNECTION DIAGRAM   |
|---|---|
| MODEL: F48SL6L15<br>CUST. P/N: FDL1036<br>HP: 1/3<br>ROT.: REVERSIBLE<br>RPM: 1075/3 SPD.<br>TYPE: UF<br>FRAME: 48Y<br>VOLTS: 115<br>PH: 1<br>AMPS: 5.9<br>HZ: 60<br>INS.: A<br>AMB: 50 °C<br>DUTY: AIR OVER<br>CAP.: 7.5 MFD/370 V<br>ENCL: OPEN<br>CSA LOGO<br>UL LOGO<br>THERMALLY PROTECTED | <p>BROWN SEP. CAP.</p> <p>BROWN/W. </p> <p>YELLOW</p> <p>BLACK HI LINE</p> <p>BLUE MED</p> <p>RED LO</p> <p>ROTATION</p> <p>BLACK CCWLE</p> <p>WHITE CWLE</p> <p>614131-111</p> |

| LEAD DATA   |                        |                          |
|-------------|------------------------|--------------------------|
| COLOR       | LENGTH                 | TERMINAL OR STRIP LENGTH |
| RED         | 26.0/28.0<br>[660/711] | .50[12.7] SKIN           |
| BLUE        | 26.0/28.0<br>[660/711] | .50[12.7] SKIN           |
| BLACK       | 26.0/28.0<br>[660/711] | .50[12.7] SKIN           |
| YELLOW      | 26.0/28.0<br>[660/711] | .50[12.7] SKIN           |
| BROWN/WHITE | 26.0/28.0<br>[660/711] | .25[6.4] FLAG            |
| BROWN       | 26.0/28.0<br>[660/711] | .25[6.4] FLAG            |
| BLACK/WHITE | 3.0/5.0<br>[76/127]    | REVERSING PLUG           |
| GREEN(GRD)  | 12.0/13.0<br>[305/330] | #10 EYELET               |

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DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

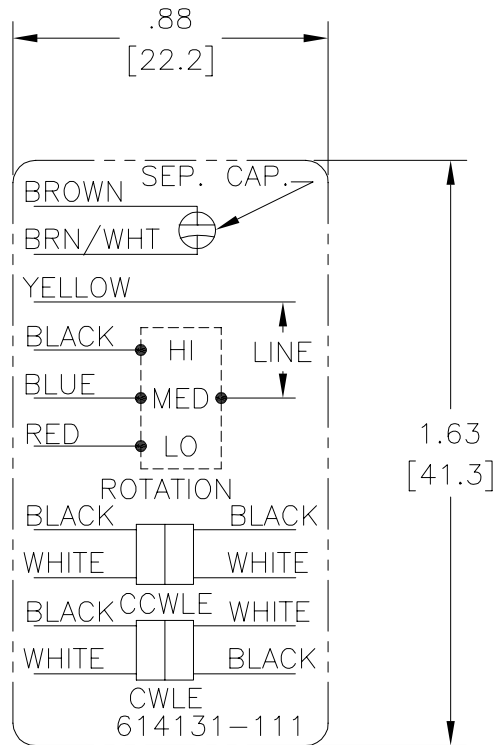
| ENCLOSED     |      |
|--------------|------|
| END FR.-LE   | OPEN |
| MAIN FR.-LE  | OPEN |
| END FR.-OLE  | OPEN |
| MAIN FR.-OLE | OPEN |

| PERFORMANCE CURVE NO. | TORQUE @1075 RPM (25°C) | APPROVED SAMPLE | UL COMPONENT | CSA             |
|-----------------------|-------------------------|-----------------|--------------|-----------------|
| FILE #                | CCN #                   | FILE #          | CLASS #      |                 |
| C0000736              | 38.0 OZ. FT.            | X-0003931       | E46412 PRGY2 | LR43341 4211-01 |

|  |   |   |   |
|--|---|---|---|
| DRAWING REVISION BY: J. ZHU<br>ECO: ECO-0182883<br>ECO DESCRIPTION: ADD SPANISH NAMEPLATE AND NOTES 2&3.   | REVISION BY: CADDIE.ZHOU<br>APPROVED BY: KEYUN.GONG<br>DATE: 03-11-2020<br>DATE: 03-11-2020 | DRAWN BY: J. ZHU<br>DATE: 12-10-2012<br>APPROVED BY: B. SHEN<br>DATE: 12-10-2012<br>PROCESS/FINISH: | DESCRIPTION: MODEL-RFHP-48FR OUTLINE<br>MATERIAL: |
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|-----|-------------|---------|------------|--------|------------|
| REV | ECO         | REV BY  | DATE       | APPD   | DATE       |
| B   | ECO-0014509 | jrupert | 05-25-2010 | triley | 05-25-2010 |



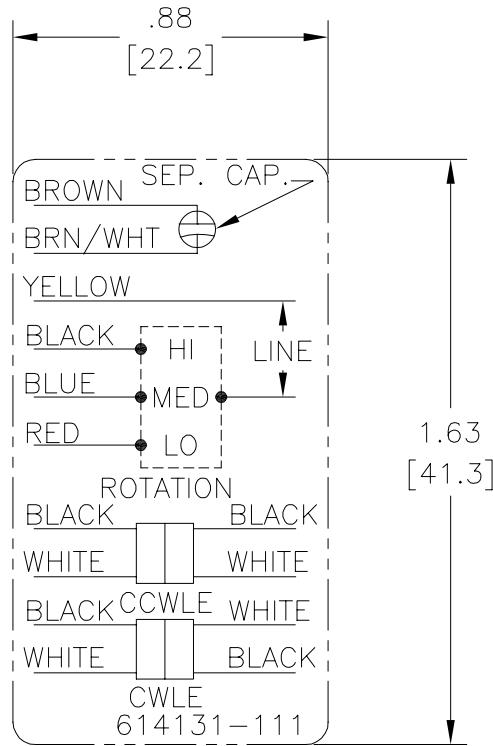
**NOTES:**

1. FOR USE WITH 614129 NAMEPLATE BLANK
2. — — — — — INDICATES DIMENSION LIMITS
3. DIE TO BE MADE FROM MASTER SUPPLIED BY A. O. SMITH CORPORATION
4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

|  |   |  |  |   |  |  |   |  |  |           |                      |  |            |  |         |
|--|---|--|--|---|--|--|---|--|--|-----------|----------------------|--|------------|--|---------|
| <b>GEOMETRIC CHARACTERISTICS &amp; SYMBOLS</b><br>▽ FLATNESS<br>— STRAIGHTNESS<br>∠ ANGULARITY<br>⊥ PERPENDICULARITY (SQUARENESS)<br>∥ PARALLELISM<br>○ ROUNDNESS (CIRCULARITY)<br>⌀ CYLINDRICITY<br>△ PROFILE OF ANY SURFACE<br>▽ PROFILE OF ANY LINE<br>↗ RUNOUT<br>⊕ TRUE POSITION<br>⊙ CONCENTRICITY<br>= SYMMETRY | UNLESS OTHERWISE SPECIFIED<br>DIM. TOLERANCES ARE AS FOLLOWS:<br>INCH X XX XXX XXXX<br>±.1 ±.02 ±.005 ±.0005<br>mm ±0.5 ±0.13 ±0.013<br>ANG. ±.50 DEG<br>REMOVE BURRS & BREAK SHARP EDGES:<br>INCH .003-.015 mm 0.1-0.4<br>CORNER FILLETS TO:<br>INCH .020 mm 0.5<br>MACHINE SURFACES:<br>INCH 125 mm 3.2<br>METRIC DIMS. SHOWN IN [BRACKETS] | DR BY: jrupert<br>APPD: triley<br>THIRD ANGLE PROJECTION                  EDS DATE 02-22-2008<br>FORMAT REV F<br>CONFIDENTIAL: THIS DRAWING AND ITS INFORMATION ARE THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF A.O. SMITH CORP. AND ARE NOT TO BE DISCLOSED, DUPLICATED, DISTRIBUTED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF A.O. SMITH CORP.<br>-ALL RIGHTS RESERVED. ASME Y14.5M 1994 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"><b>ACSmith</b><br/><small>innovation has a name.</small></td> <td style="text-align: center;"><b>ELECTRICAL PRODUCTS COMPANY</b><br/><small>A DIVISION OF A. O. SMITH CORPORATION</small></td> </tr> <tr> <td colspan="3" style="text-align: center;">DESCRIPTION<br/><b>CONN DIAGRAM EXTERNAL</b></td> </tr> <tr> <td style="width: 10%;">SIZE<br/>A</td> <td style="width: 40%;">DWG NO<br/>614131-111</td> <td style="width: 50%;"></td> </tr> <tr> <td>SCALE NONE</td> <td></td> <td>SHEET 1</td> </tr> </table> | <b>ACSmith</b><br><small>innovation has a name.</small> |  | <b>ELECTRICAL PRODUCTS COMPANY</b><br><small>A DIVISION OF A. O. SMITH CORPORATION</small> | DESCRIPTION<br><b>CONN DIAGRAM EXTERNAL</b> |  |  | SIZE<br>A | DWG NO<br>614131-111 |  | SCALE NONE |  | SHEET 1 |
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| SCALE NONE   |   | SHEET 1  |  |   |  |  |   |  |  |           |                      |  |            |  |         |

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| B         | ECO-0014509 | jrupert       | 05-25-2010 | triley        | 05-25-2010 |



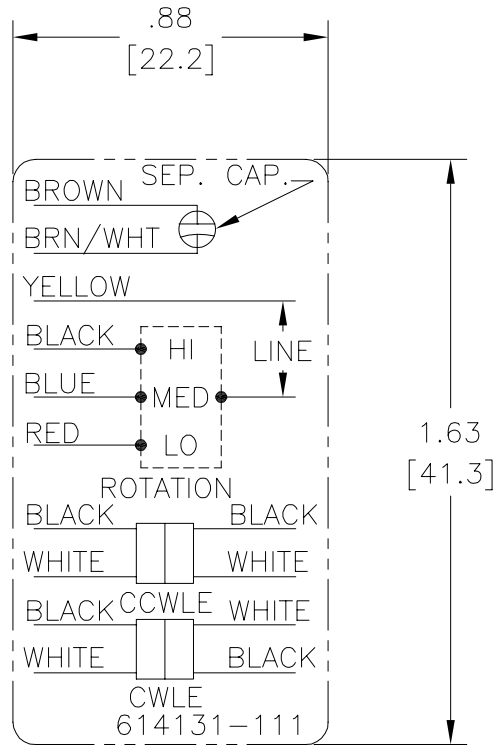
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|   |   |  |   |   |
|---|---|--|---|---|
| CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS<br>Z PLANICIDAD<br>— RECTITUD<br>< ANGULARIDAD<br>⊥ PERPENDICULARIDAD (A ESCUADRA)<br>// PARALELISMO<br>○ REDONDEZ (CIRCULARIDAD)<br>∅ CILINDRICIDAD<br>△ PERFIL DE CUALQUIER SUPERFICIE<br>∩ PERFIL DE CUALQUIER LINEA<br>/ VARIACION<br>⊕ POSICION REAL<br>⊙ CONCENTRICIDAD<br>= SIMETRIA | A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS. SON LAS SIGUIENTES:<br>X XX XXX XXXX<br>PULG ±.1 ±.02 ±.005 ±.0005<br>mm ±0.5 ±0.13 ±0.013<br>ANG. ±.50 GRADOS<br>ELIMINAR REBABAS Y ORILLAS FILOSAS DEL BORDE.<br>PULG .003-.015 mm 0.1-0.4<br>FILETEAR ESQUINA: PULG .020 mm 0.5<br>MAQUINAR SUPERFICIES<br>PULG 125 mm 3.2<br>DIMS METRICAS MOSTRADAS [PARENTESIS] | DIBUJADO POR:<br>jrupert<br>05-25-2010<br>APROBADO POR:<br>triley<br>05-25-2010<br>TERCER ANGULO DE PROYECCION<br>FECHA EDS: 02-22-2008<br>REV. FORMATO: F | <b>ELECTRICAL PRODUCTS COMPANY</b><br>A DIVISION OF A. O. SMITH CORPORATION | DESCRIPCION:<br>CONN DIAGRAM EXTERNAL<br>TAMAÑO: A<br>NUMERO DE DIBUJO: 614131-111<br>ESCALA: NONE<br>HOJA: 1 |
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|  |   |                                    |   |   |                             |
|--|---|------------------------------------|---|---|-----------------------------|
| 形位公差<br>□ 平面度<br>— 直线度<br>∠ 倾斜度<br>⊥ 垂直度<br>∥ 平行度<br>○ 圆度<br>⊙ 圆柱度<br>面轮廓度<br>线轮廓度<br>圆跳动<br>位置度<br>同轴度<br>≡ 对称度 | 除另有注明<br>尺寸公差如下:<br>英寸 X XX XXX XXXX<br>毫米 ±.1 ±.02 ±.005 ±.0005<br>毫米 ±0.5 ±0.13 ±0.013<br>角度 ±.50 度<br>清理毛刺和尖棱<br>英寸 .003-.015 毫米 0.1-0.4<br>内圆角<br>英寸 .020 毫米 0.5<br>表面粗糙度<br>英制 125 米制 3.2<br>米制尺寸显示在 [ ] | 绘图: jrupert<br>批准: triley<br>第三角投影 | 05-25-2010<br>05-25-2010<br>图纸格式发布日期 02-22-2008<br>图纸格式版本 F | <b>ELECTRICAL PRODUCTS COMPANY</b><br><small>A DIVISION OF A. O. SMITH CORPORATION</small><br>名称<br><h2 style="margin: 0;">CONN DIAGRAM EXTERNAL</h2> |                             |
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|  |   |                                    |   | 比例<br>NONE  | 页号<br>1                     |
|  |   |                                    |   |   |                             |