

# PRODUCT INFORMATION PACKET



Model No: EM3746F

Catalog No: EM3746F

PRO-E SERIES® Condenser Fan Motor, 1/2 HP, 1 Ph, 60 Hz, 208-230 V, 825 RPM, 1 Speed, 48 Frame, TEAO



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### Nameplate Specifications

|                    |            |                     |                           |
|--------------------|------------|---------------------|---------------------------|
| Phase              | 1          | Output HP           | 1/2 Hp                    |
| Output KW          | 0.37 kW    | Voltage             | 208-230 V                 |
| Speed              | 825 rpm    | Service Factor      | 1                         |
| Frame              | 48Y        | Enclosure           | Totally Enclosed Air Over |
| Thermal Protection | Automatic  | Ambient Temperature | 70 °C                     |
| Frequency          | 60 Hz      | Current             | 2.2-2.5 A                 |
| Duty               | Air Over   | Insulation Class    | F                         |
| UL                 | Recognized | CSA                 | Y                         |
| CE                 | N          | Number of Speeds    | 1                         |

### Technical Specifications

|                   |                           |                       |                 |
|-------------------|---------------------------|-----------------------|-----------------|
| Electrical Type   | Permanent Split Capacitor | Starting Method       | Across The Line |
| Poles             | 8                         | Rotation              | Reversible      |
| Mounting          | Extended Studs            | Motor Orientation     | Any             |
| Drive End Bearing | Ball                      | Opp Drive End Bearing | Ball            |
| Frame Material    | Rolled Steel              | Shaft Type            | Flat            |
| Overall Length    | 12.21 in                  | Frame Length          | 5.69 in         |
| Shaft Diameter    | 0.500 in                  | Shaft Extension       | 6.0 in          |
| Outline Drawing   | EM3746F_FA                | Connection Drawing    | 614131-292      |

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GENERAL INFORMATION:

SHAFT RUNOUT: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION.

BEARINGS: BALL

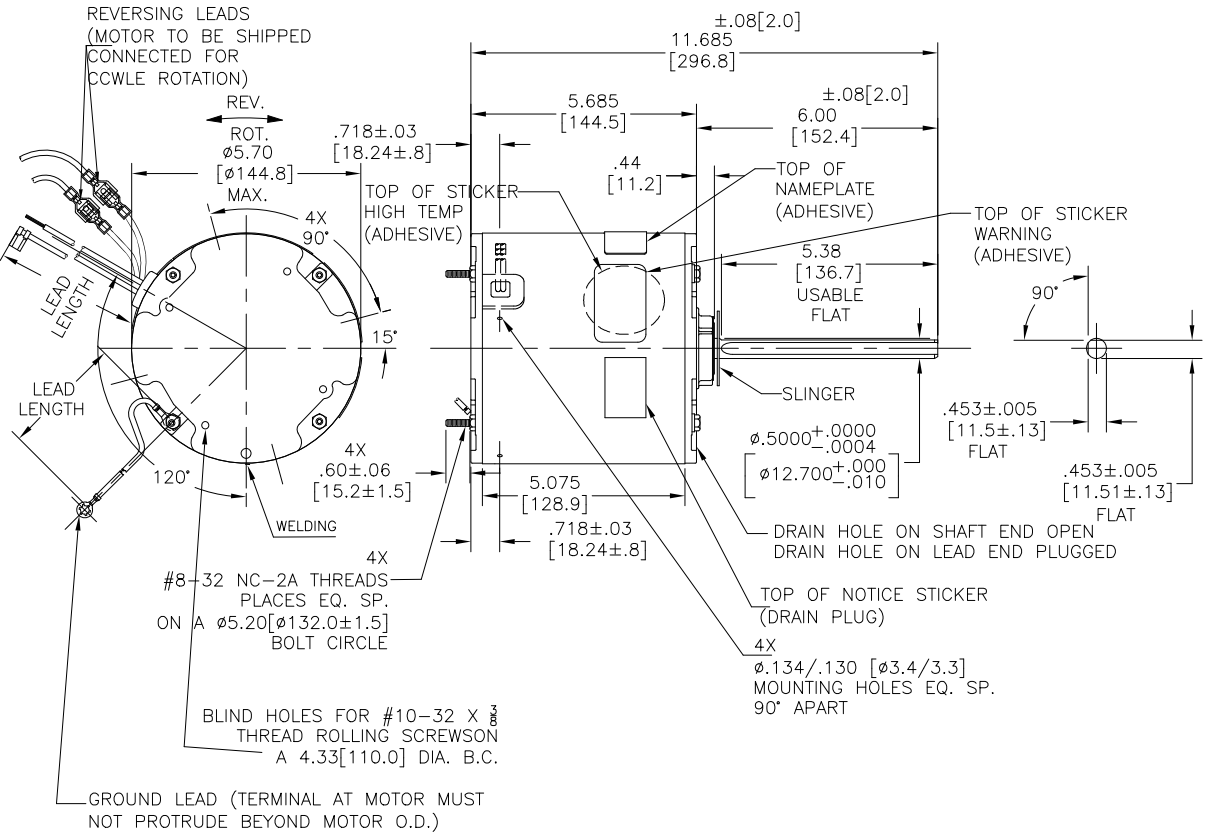
MOUNTING POSITION: ALL ANGLE

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 036)

LEADS: NO. 18 GA., .03[.8] THK.,XLP 125°C INSUL.

GROUND LEAD: NO. 18 GA., .03[.8] THK. (GREEN) INSUL.



- NOTES:
- CENTURY OUTSIDE MOTOR SERIES.
  - 4X SCREWS N194P1504B9 & 4X HEX NUTS N238P15B9, 4X SCREW 13833003 TO BE PUT IN A POLYBAG
  - SPRING SHIM IN LE SIDE.
  - ALL LABEL READ FROM LE

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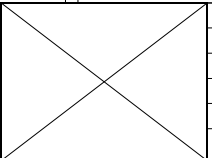
DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

|                |          |
|----------------|----------|
| MAIN FRAME-OLE | ENCLOSED |
| END FRAME-OLE  | ENCLOSED |
| MAIN FRAME-LE  | ENCLOSED |
| END FRAME-LE   | ENCLOSED |

|          |         |
|----------|---------|
| CUSTOMER | CENTURY |
|----------|---------|

|                |                     |                                  |
|----------------|---------------------|----------------------------------|
| GREEN (GROUND) | 12.0/13.0 [305/330] | #10 EYELET                       |
| PURPLE(REV)    | 4.0/6.0 [102/152]   | .25[6.4] PER-INSUL. MALE TAB     |
| PURPLE(REV)    | 4.0/6.0 [102/152]   | .25[6.4] PER-INSUL. FEMALE SPADE |
| YELLOW(REV)    | 4.0/6.0 [102/152]   | .25[6.4] PER-INSUL. MALE TAB     |
| YELLOW(REV)    | 4.0/6.0 [102/152]   | .25[6.4] PER-INSUL. FEMALE SPADE |
| BROWN/WHITE    | 35.0/37.0 [889/940] | .25[6.4] FLAG                    |
| BROWN          | 35.0/37.0 [889/940] | .25[6.4] FLAG                    |
| WHITE          | 35.0/37.0 [889/940] | .50[12.7] SKIN                   |
| BLACK          | 35.0/37.0 [889/940] | .50[12.7] SKIN                   |
| COLOR          | LENGTH              | TERMINAL OR STRIP LENGTH         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|
| DRAWING REVISION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REVISION BY | DATE     |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | AD          | 02.03.24 |
| ECR-0230275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | APPROVED BY | DATE     |
| LE E/S CHG.&SCREW ADDED IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LS          | 02.03.24 |
| ECO DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NOTES 2     |          |
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ENCLOSURE

|                        |          |
|------------------------|----------|
| DRAWN BY:              | MANOJ    |
| DATE:                  | 14.03.19 |
| APPROVED BY:           | LAXMAN   |
| DATE:                  | 14.03.19 |
| PROCESS/FINISH         |          |
| THIRD ANGLE PROJECTION |          |

|                         |                            |
|-------------------------|----------------------------|
| Regal Rexnord           | Regal Beloit America, Inc. |
| MODEL-RFHP-48FR OUTLINE |                            |
| SIZE DWG NO             | EM3746F_FA                 |
| SHEET                   | 1                          |

SAMPLE SM19-104 NAMEPLATE DATA:

MODEL NO.: 5KCP39PFDD602S  
CUST. P/N: EM3746F  
HP: 1/2  
ROT.: REVERSIBLE  
RPM: 825  
TYPE: UF  
FRAME: 48Y  
VOLTS: 208-230  
PH: 1  
AMPS: 2.2-2.5  
HZ: 60  
INS.: F  
AMB.: 70°C  
DUTY: AIR OVER  
CAP.: 10MFD/370V  
THERMALLY PROTECTED

**CAI** US  
E27885

MADE IN INDIA

EXTERNAL CONNECTION DIAGRAM

SEP. CAP. BROWN

BRN/WHT

WHITE

BLACK

LINE

ROTATION AT LEAD END

CCW PURPLE

YELLOW

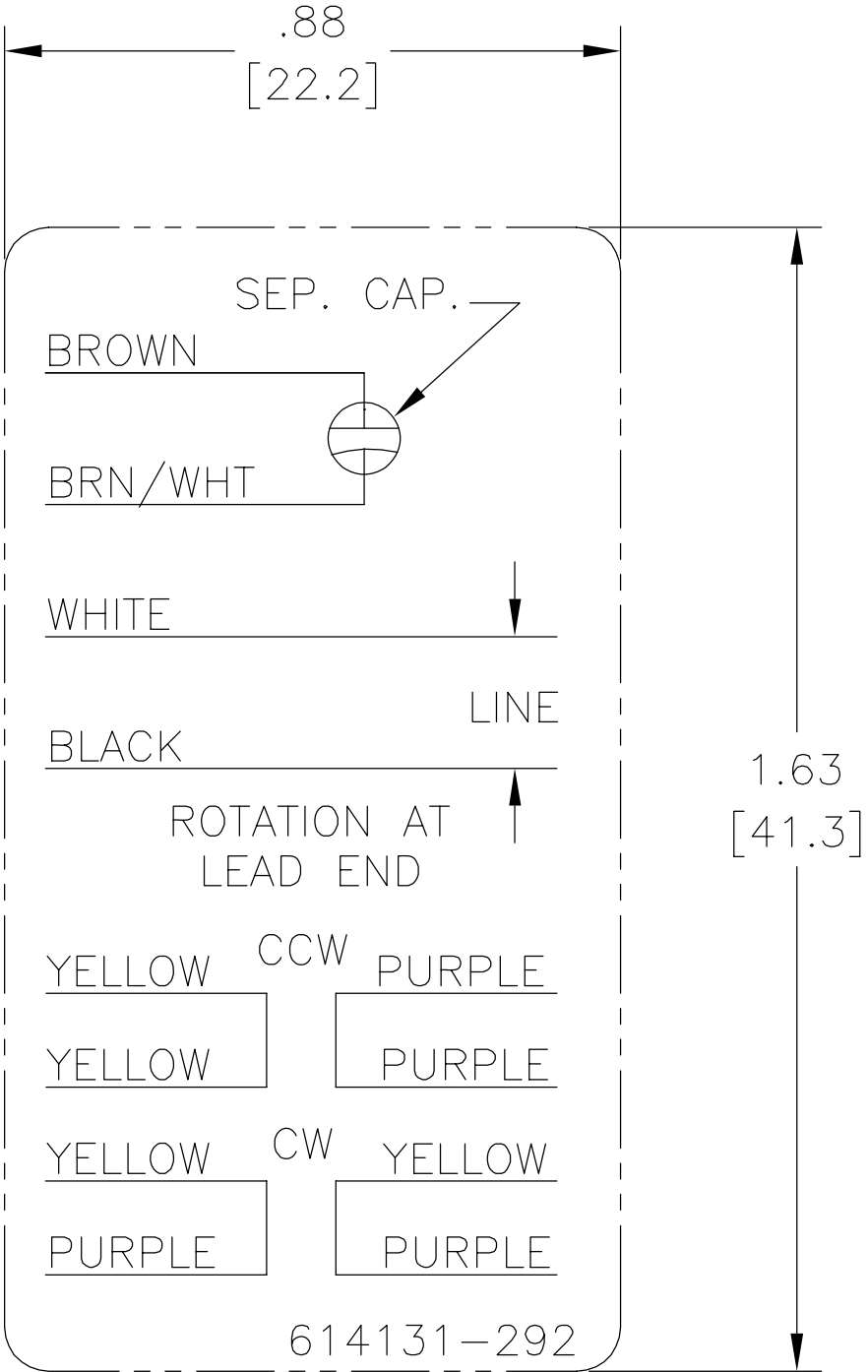
CW YELLOW

PURPLE

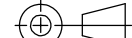
PURPLE

614131-292

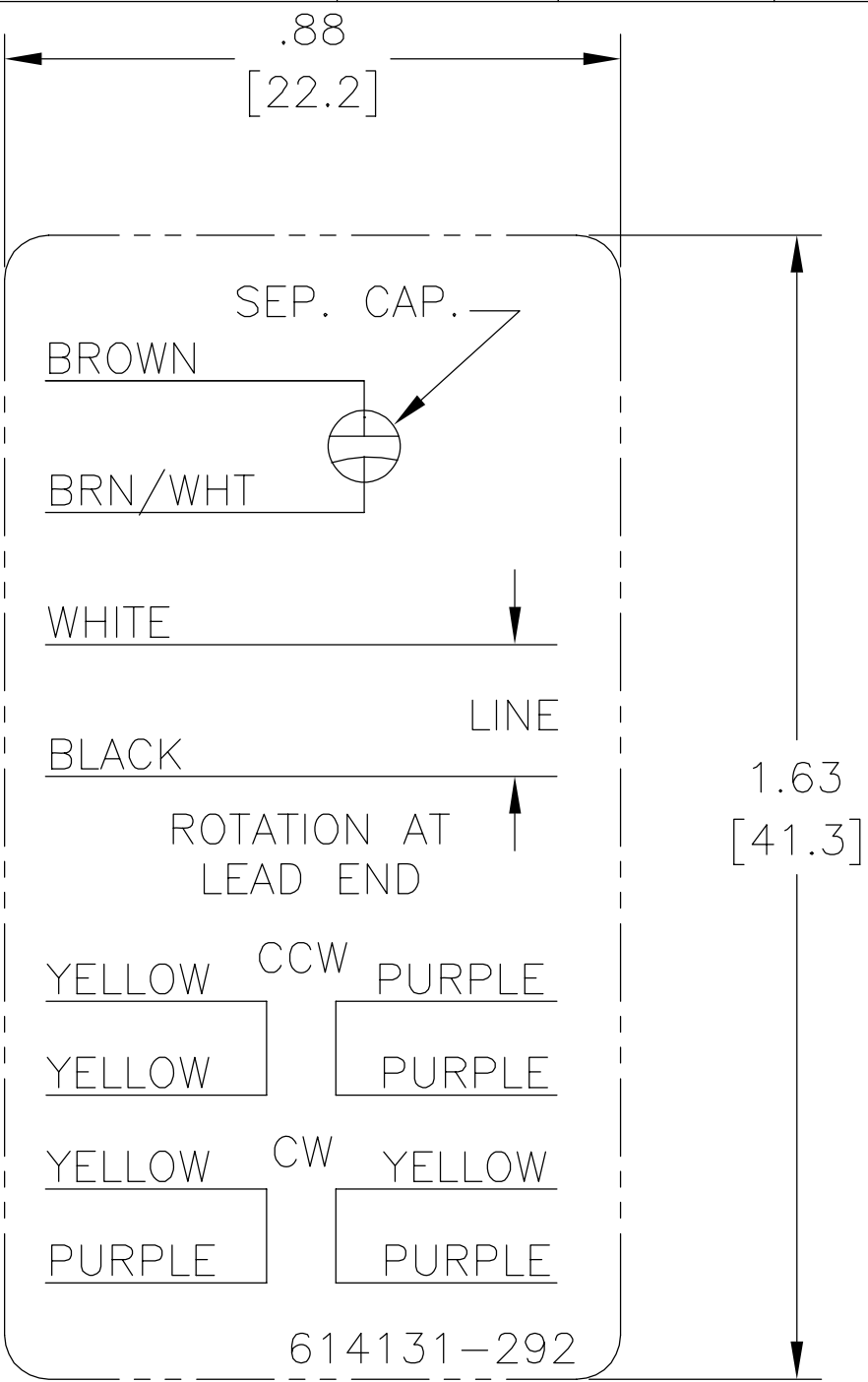
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| REV | ECO         | REV BY  | DATE       | APPD    | DATE       |
| B   | ECO-0022458 | jrupert | 09-19-2011 | jrupert | 09-19-2011 |



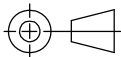
- NOTES:
1. FOR USE WITH 614129 NAMEPLATE BLANK
  2. — — — — — INDICATES DIMENSION LIMITS
  3. DIE TO BE MADE FROM MASTER SUPPLIED BY A. O. SMITH CORPORATION
  4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                 |                                     |                                                                                                                                                                                      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| GEOMETRIC CHARACTERISTICS & SYMBOLS<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><div>INCH X XX XXX XXXX</div> <div>mm ±.1 ±.02 ±.005 ±.0005</div> <div>mm ±0.5 ±0.13 ±0.013</div> <div>ANG. ±.50 DEG</div> <div>REMOVE BURRS &amp; BREAK SHARP EDGES:</div> <div>INCH .003-.015 mm 0.1-0.4</div> <div>CORNER FILLETS TO:</div> <div>INCH .020 mm 0.5</div> <div>MACHINE SURFACES:</div> <div>INCH 125 mm 3.2</div> <div>METRIC DIMS. SHOWN IN [BRACKETS]</div> | DR BY:<br>jrupert                                                                                                                                                                                                                                                               | 09-19-2011                          | <div> <b>ELECTRICAL PRODUCTS COMPANY</b></div> <div>A DIVISION OF A. O. SMITH CORPORATION</div> |  |
|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                 | APPD:<br>jrupert                                                                                                                                                                                                                                                                | 09-19-2011                          | DESCRIPTION<br>CONN DIAGRAM NAMEPLATE                                                                                                                                                |  |
|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                 | THIRD ANGLE PROJECTION                                                                                                                                                                     | EDS DATE 02-22-2008<br>FORMAT REV F | SIZE A DWG NO 614131-292                                                                                                                                                             |  |
|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 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 |                                     | SCALE NONE SHEET 1                                                                                                                                                                   |  |
|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                 |                                     |                                                                                                                                                                                      |  |

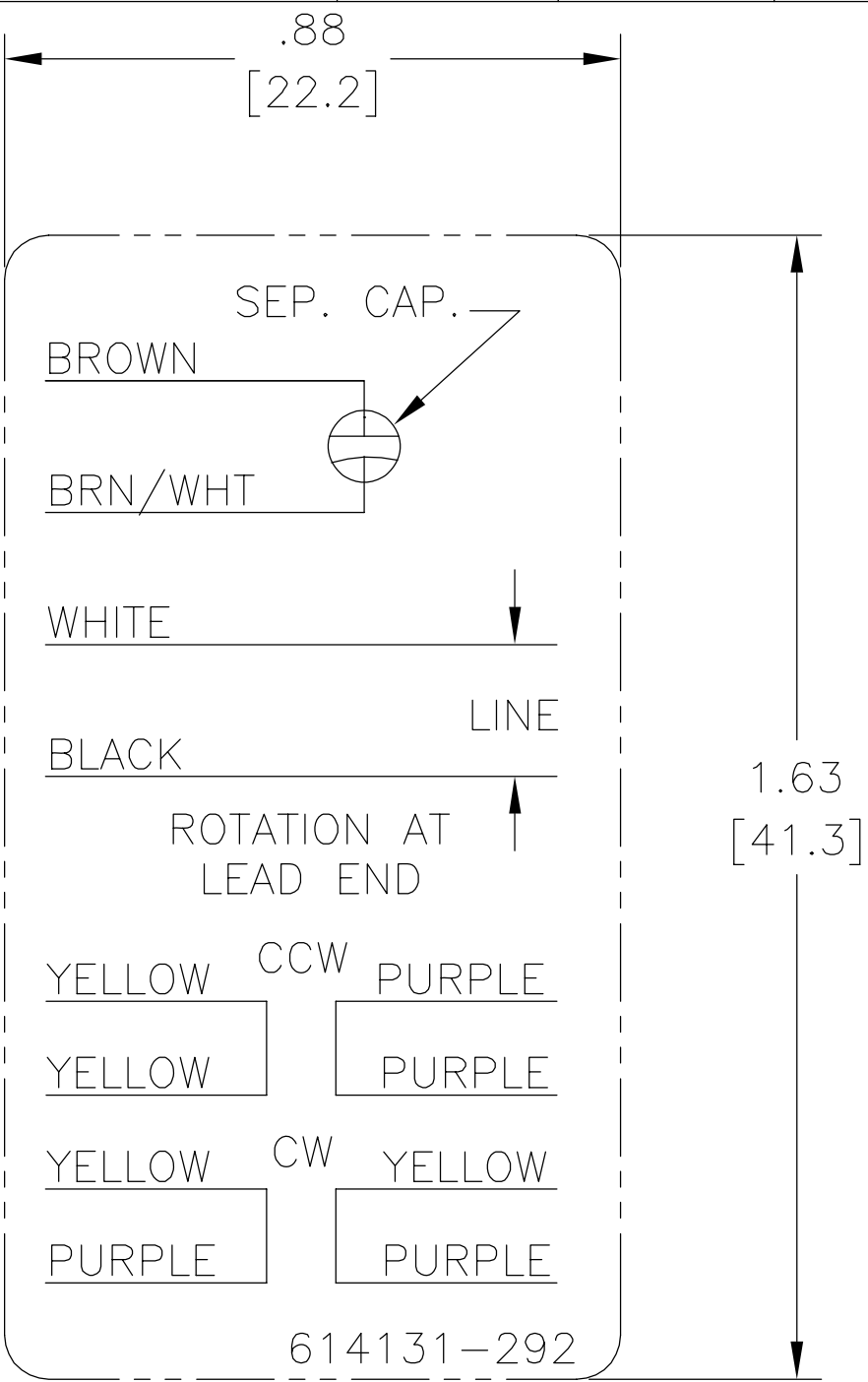
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| REVISION: | ECO         | REVISADO POR: | FECHA:     | APROBADO POR: | FECHA:     |
| B         | ECO-0022458 | jrupert       | 09-19-2011 | jrupert       | 09-19-2011 |



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|                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                               |                                                                                       |                                                                                                                                                                                                                                       |                                        |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------|
| CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS<br>∇ 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                                                                                                                                                                                                                                                                      | 09-19-2011                                                                            | <div><b>ELECTRICAL PRODUCTS COMPANY</b><br/><small>Innovation has a name.</small><br/><small>A DIVISION OF A. O. SMITH CORPORATION</small></div> |                                        |                                 |
|                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                               | APROBADO POR:<br>jrupert                                                                                                                                                                                                                                                                      | 09-19-2011                                                                            |                                                                                                                                                                                                                                       |                                        |                                 |
|                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                               | TERCER ANGULO DE PROYECCION                                                                                                                                                                                                                                                                   |  | FECHA EDS: 02-22-2008<br>REV. FORMATO: F                                                                                                                                                                                              | DESCRIPCION:<br>CONN DIAGRAM NAMEPLATE |                                 |
|                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                               | CONFIDENCIAL: ESTE DIBUJO Y SU INFORMACION SON PROPIEDAD DE USO EXCLUSIVO Y CONFIDENCIAL DE A.O.SMITH CORP. Y NO DEBERAN SER REVELADOS, DUPLICADOS, DISTRIBUIDOS O USARSE DE OTRA MANERA SIN EL CONSENTIMIENTO ESCRITO DE A.O. SMITH CORP.<br>-TODOS LOS DERECHOS RESERVADOS.ASME Y14.5M 1994 |                                                                                       |                                                                                                                                                                                                                                       | TAMAÑO:<br>A                           | NUMERO DE DIBUJO:<br>614131-292 |
|                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                               |                                                                                       |                                                                                                                                                                                                                                       | ESCALA:NONE                            |                                 |

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|----|-------------|---------|------------|---------|------------|
| 版本 | ECO         | 编制      | 日期         | 批准      | 日期         |
| B  | ECO-0022458 | jrupert | 09-19-2011 | jrupert | 09-19-2011 |



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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><br>英寸 X XX XXX XXXX<br>±.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><br>米制尺寸显示在[ ] | 绘图:                                                                               | jrupert                                                                               | 09-19-2011                      | ACSmith<br>Innovation has a name.<br>ELECTRICAL PRODUCTS<br>COMPANY<br>A DIVISION OF A. O. SMITH CORPORATION |  |  |      |    |            |   |
|                                                                                                                             |                                                                                                                                                                                                                   | 批准:                                                                               | jrupert                                                                               | 09-19-2011                      | 名称<br><br>CONN DIAGRAM NAMEPLATE                                                                             |  |  |      |    |            |   |
|                                                                                                                             |                                                                                                                                                                                                                   | 第三角投影                                                                             |  | 图纸格式发布日期 02-22-2008<br>图纸格式版本 F |                                                                                                              |  |  |      |    |            |   |
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|                                                                                                                             |                                                                                                                                                                                                                   |                                                                                   |                                                                                       |                                 | 比例                                                                                                           |  |  | NONE | 页号 |            | 1 |
|                                                                                                                             |                                                                                                                                                                                                                   |                                                                                   |                                                                                       |                                 | ASME Y14.5M 1994                                                                                             |  |  |      |    |            |   |