

# PRODUCT INFORMATION PACKET



Model No: EM3459F

Catalog No: EM3459F

PRO-E SERIES® Condenser Fan Motor, 1/3-1/8 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           | 1/3-1/8 Hp                |
| Output KW          | 0.25 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             | 1.8-2.0 A                 |
| Duty               | Air Over   | Insulation Class    | F                         |
| UL                 | Recognized | CSA                 | Y                         |
| CE                 | N          | Number of Speeds    | 1                         |

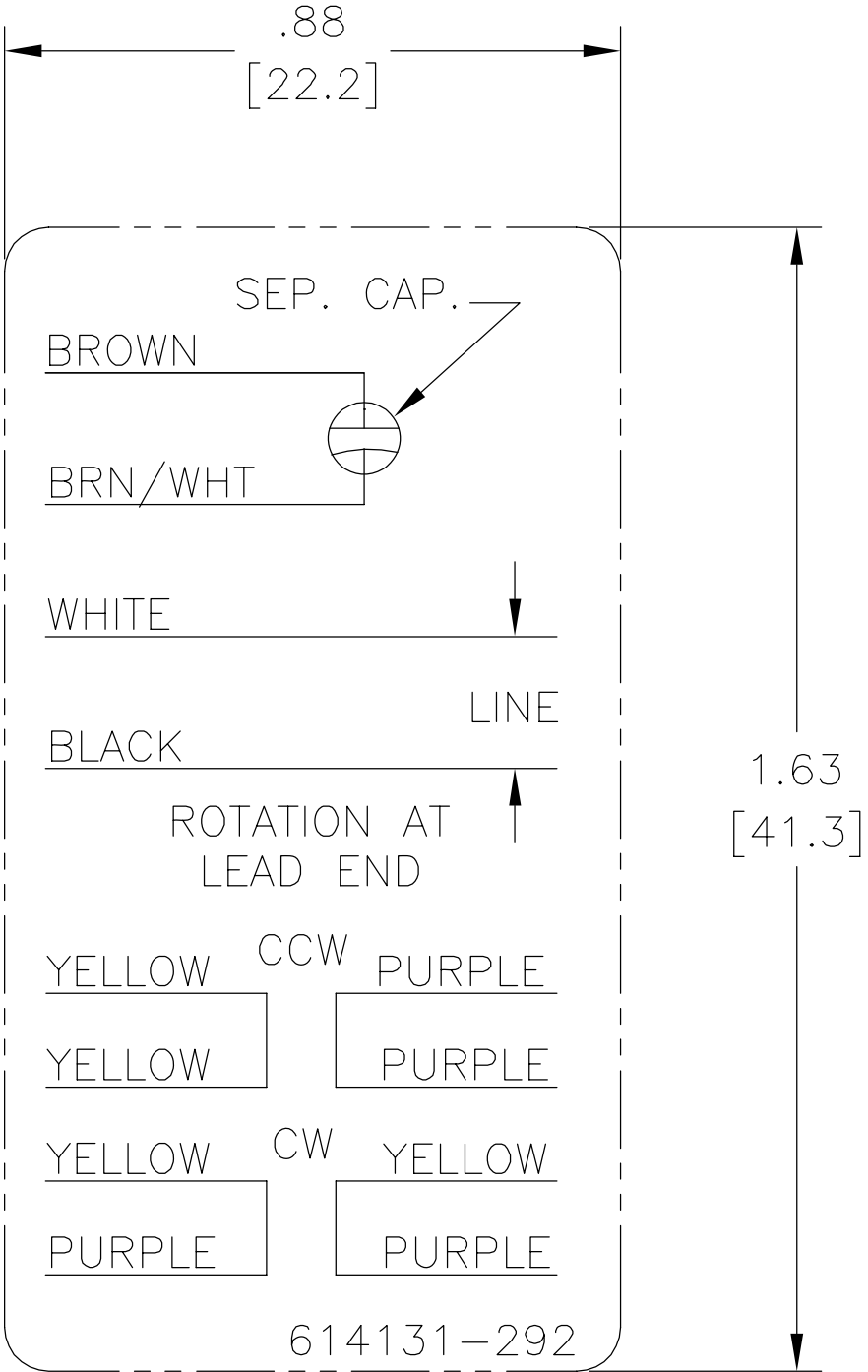
### Technical Specifications

|                   |                           |                       |                 |
|-------------------|---------------------------|-----------------------|-----------------|
| 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    | 12.45 in                  | Frame Length          | 4.94 in         |
| Shaft Diameter    | 0.500 in                  | Shaft Extension       | 6.7 in          |
| Outline Drawing   | EM3459F_FA                | Connection Drawing    | 614131-292      |

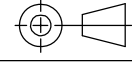
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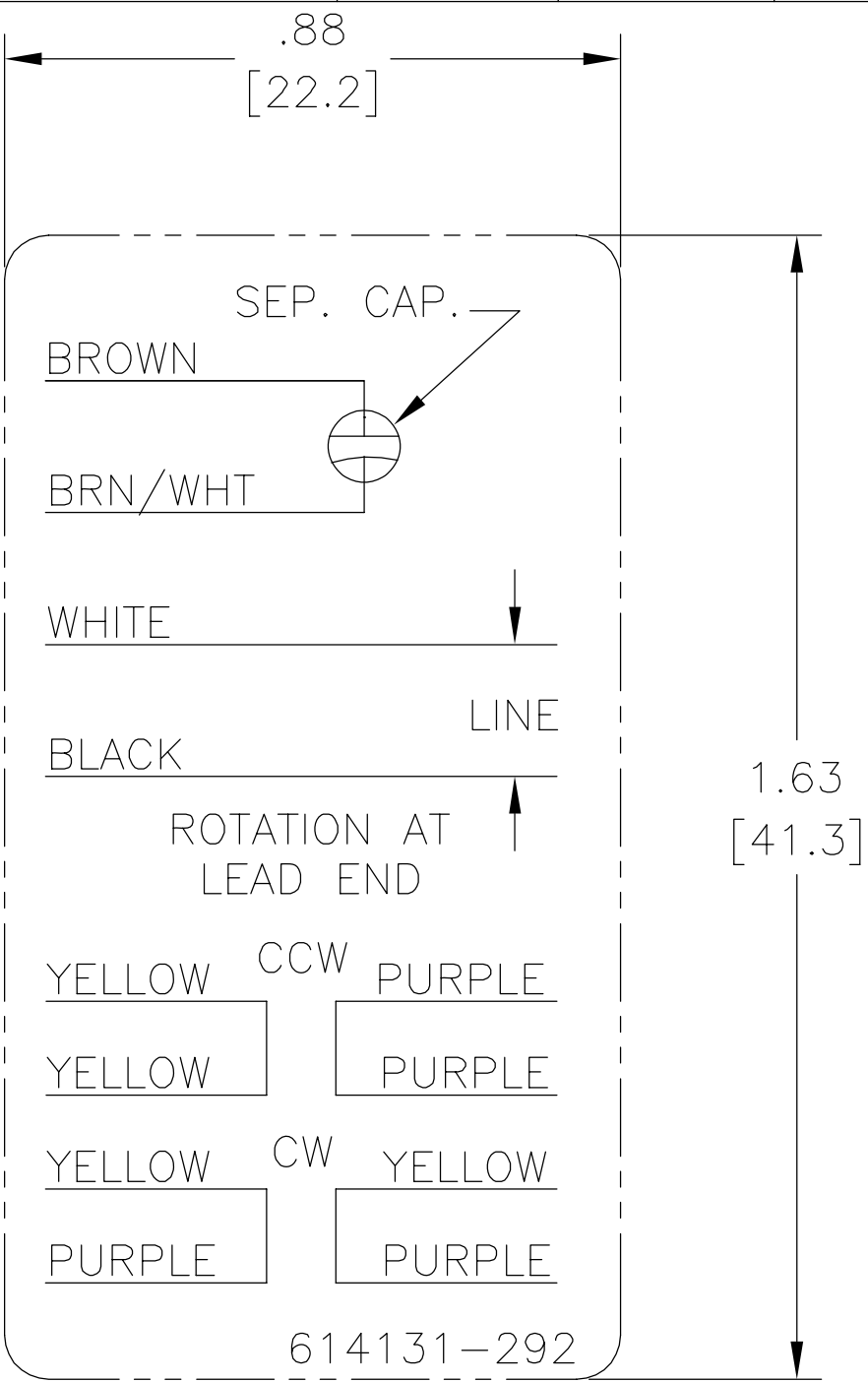
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| REV | ECO         | REV BY  | DATE       | APPD    | DATE       |
| B   | ECO-0022458 | jrupert | 09-19-2011 | jrupert | 09-19-2011 |



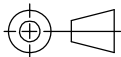
- NOTES:
1. FOR USE WITH 614129 NAMEPLATE BLANK
  2. — — — — — INDICATES DIMENSION LIMITS
  3. DIE TO BE MADE FROM MASTER SUPPLIED BY A. O. SMITH CORPORATION
  4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                 |                     |                                       |                                                                                                                                                                                                         |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 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>INCH X XX XXX XXXX<br>mm ±.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             | 09-19-2011                            |  <b>ELECTRICAL PRODUCTS COMPANY</b><br><small>INNOVATION HAS A NAME. A DIVISION OF A. O. SMITH CORPORATION</small> |  |
|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                  | APPD:                                                                                                                                                                                                                                                                           | jrupert             | 09-19-2011                            |                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                  | THIRD ANGLE PROJECTION                                                                                                                                                                     | EDS DATE 02-22-2008 | DESCRIPTION<br>CONN DIAGRAM NAMEPLATE |                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                 | FORMAT REV F        |                                       |                                                                                                                                                                                                         |  |
|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                  | 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 |                     | SIZE A                                | DWG NO 614131-292                                                                                                                                                                                       |  |
|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                 |                     | SCALE NONE                            | SHEET 1                                                                                                                                                                                                 |  |

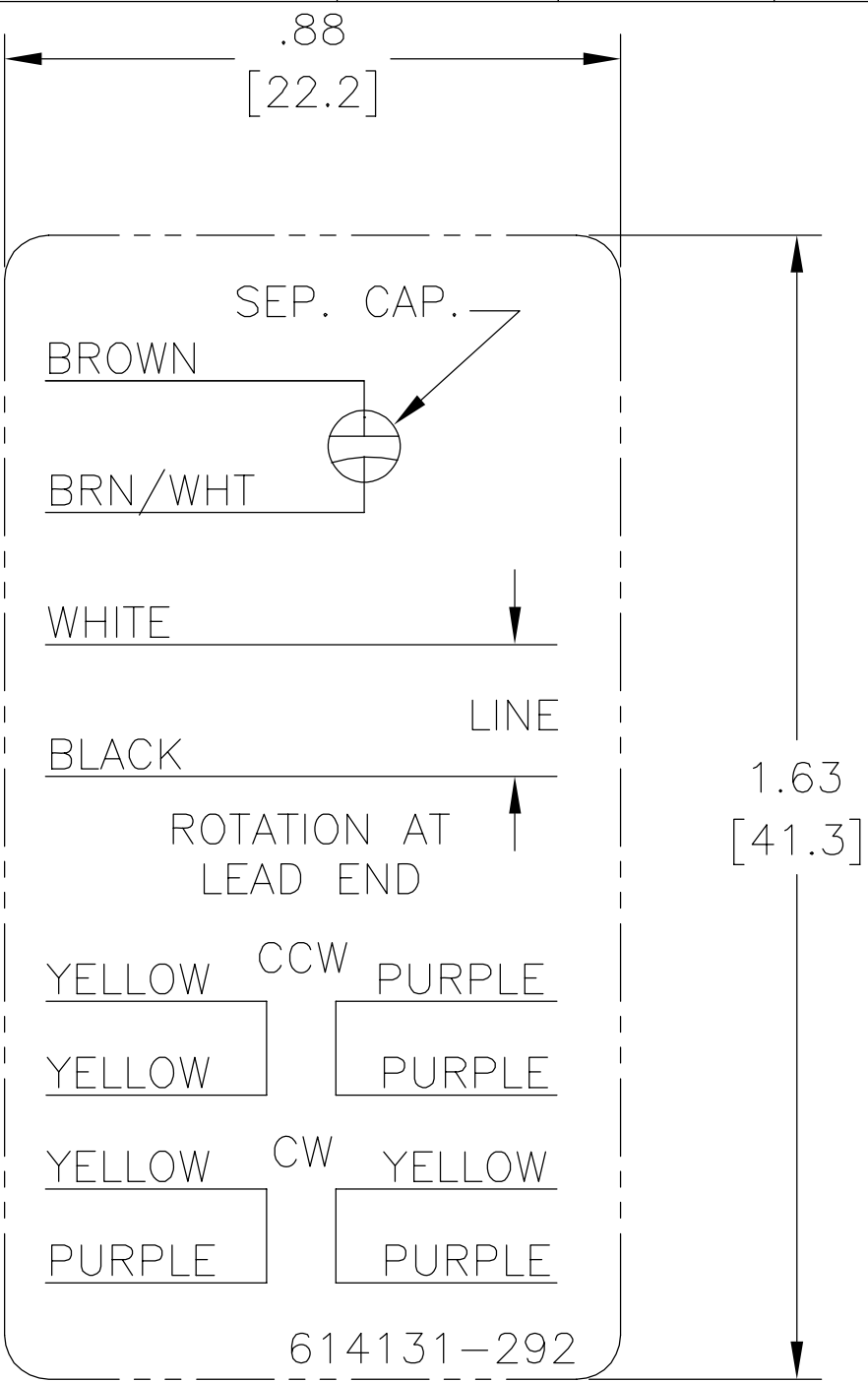
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| REVISION: | ECO         | REVISADO POR: | FECHA:     | APROBADO POR: | FECHA:     |
| B         | ECO-0022458 | jrupert       | 09-19-2011 | jrupert       | 09-19-2011 |



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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         |
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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          | <div><div>ACSmith</div><div>Innovation has a name.</div><div>ELECTRICAL PRODUCTS COMPANY</div><div>A DIVISION OF A. O. SMITH CORPORATION</div></div> |                  |  |      |          |            |
|                                                                                                                             |                                                                                                                                                                                                                   | 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 |                                                                                                                                                      |                  |  |      | 图纸格式版本 F |            |
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