EVERGREEN® EM

SPECIFICATIONS

• Multi-speed, constant torque, brushless DC motor

• Available in either 115V or 208-230VAC single-phase input, 50/60Hz

• Designed to replace direct-drive blower motors in residential and light commercial indoor furnaces, air handlers, and package systems that were designed with a standard ECM motor, such as an X13 or equivalent competitor model.

• Available in 1/3, 1/2, 3/4 and 1HP ratings

• Automatically determines motor direction using Genteq’s Rotation Sensing Technology.

• 5 discrete speeds using 24VAC (3 using 18VDC)

• Low voltage signal harness provided with the motor.

• Operating speed range of 600 -1200 rpm

• NEMA 48-frame (5.6 inch diameter) Belly Band Mount with 5-inch long ½ inch diameter shaft.

• UL and CSA recognized component.

BENEFITS

• Standard ECM Replacement (Does not replace premium ECM constant airflow products such as Eon, 3.0, 2.3, and 2.5)

• Maintains ECM-level Efficiency up to 80%

• Soft Start and Off Ramp for quiet operation

• Alternate use for Commercial Building Series VAV Box and Packaged Heat Pump Retrofit/Upgrade Motor for a PSC system (Refer to Evergreen Em Instruction Manual)

• Encapsulated Electronics

• 4kV Surge Protection

• Electronic Overload Protection
See the Evergreen EM Installation manual for complete product installation details. Evergreen EM is a UL and CSA recognized component. The allowable voltage range is 90-132VAC for 115VAC models and 180-264VAC for 208-230VAC models.

The frame size of all Evergreen EM motors is NEMA 48 (5.6" diameter). All shafts are 1/2" diameter, 4.92" long, with a single flat. See the listings below for each model’s respective dimension from end shield to end shield (Dim. B) and end shield to shaft end (Dim. A).

<table>
<thead>
<tr>
<th>STOCK NO.</th>
<th>HP</th>
<th>VOLTS</th>
<th>MAX CURRENT</th>
<th>ROTATION</th>
<th>DIM A</th>
<th>DIM B</th>
<th>APPROXIMATE WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>6103E</td>
<td>1/3</td>
<td>115</td>
<td>4.8 A</td>
<td>CCW/CW</td>
<td>10.17&quot;</td>
<td>5.25&quot;</td>
<td>8.4 lbs</td>
</tr>
<tr>
<td>6203E</td>
<td>1/3</td>
<td>208-230</td>
<td>2.8 A</td>
<td>CCW/CW</td>
<td>10.17&quot;</td>
<td>5.25&quot;</td>
<td>8.4 lbs</td>
</tr>
<tr>
<td>6105E</td>
<td>1/2</td>
<td>115</td>
<td>6.8 A</td>
<td>CCW/CW</td>
<td>10.67&quot;</td>
<td>5.75&quot;</td>
<td>11.3 lbs</td>
</tr>
<tr>
<td>6205E</td>
<td>1/2</td>
<td>208-230</td>
<td>4.1 A</td>
<td>CCW/CW</td>
<td>10.67&quot;</td>
<td>5.75&quot;</td>
<td>11.3 lbs</td>
</tr>
<tr>
<td>6107E</td>
<td>3/4</td>
<td>115</td>
<td>8.4 A</td>
<td>CCW/CW</td>
<td>11.42&quot;</td>
<td>6.5&quot;</td>
<td>15.6 lbs</td>
</tr>
<tr>
<td>6207E</td>
<td>3/4</td>
<td>208-230</td>
<td>6.0 A</td>
<td>CCW/CW</td>
<td>11.42&quot;</td>
<td>6.5&quot;</td>
<td>15.6 lbs</td>
</tr>
<tr>
<td>6110E</td>
<td>1</td>
<td>115</td>
<td>10.9 A</td>
<td>CCW/CW</td>
<td>12.17&quot;</td>
<td>7.25&quot;</td>
<td>19.3 lbs</td>
</tr>
<tr>
<td>6210E</td>
<td>1</td>
<td>208-230</td>
<td>7.6 A</td>
<td>CCW/CW</td>
<td>12.17&quot;</td>
<td>7.25&quot;</td>
<td>19.3 lbs</td>
</tr>
</tbody>
</table>

**Ambient Temperature of All Motors Listed Here.**

- Storage: -40 to +85 degrees Celsius
  (-40 to 185 degrees Fahrenheit)
- Powered, not operating: -20 to +65 degrees Celsius
  (-4 to 149 degrees Fahrenheit)
- Operating (1/3 and 1/2 Hp): -20 to +55 degrees Celsius
  (-4 to 131 degrees Fahrenheit)
- Operating (3/4 and 1 Hp): -20 to +45 degrees Celsius
  (-4 to 113 degrees Fahrenheit)

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