EVERGREEN® CM

SPECIFICATIONS

○ Variable speed, constant torque, brushless DC motor

○ 208-230/277VAC single-phase input, 50/60Hz

  Designed for direct-drive blower replacement applications in commercial building systems such as Series VAV boxes and Packaged Heat Pumps.

  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)

○ Variable Speed Control using Auto-switch mode.

  Motor switches to variable speed mode when a PWM input is detected.

  (Evolution Controls and Hoffman Controls make PWM speed controls for Genteq ECM Motors with manual screw adjustment, 0-10VDC, or 4-20mA inputs)

○ Operating speed range of 600-1200 rpm

○ NEMA 48-frame (5.6 inch diameter) Belly Band Mount with 4-inch long ½ inch diameter shaft.

○ UL and CSA recognized component.

BENEFITS

○ Efficiency up to 80%

○ Ready for Building Automation System Control interface using a PWM speed controller such as manufactured by Evolution Controls.

○ Air balancing using up to 5 speeds with normal 24VAC/18VDC or by using an ECM PWM Speed Controller.

○ Constant torque with better External Static Pressure Control than standard PSC motors.

○ Soft Start and Off Ramp for quieter operation

○ Encapsulated Electronics

○ Improved High Static CFM performance

○ 2 Year Warranty
EVERGREEN® CM

See the Evergreen CM Installation manual for complete product installation details. This manual can be downloaded from www.EvergreenDealer.com. Evergreen CM is a UL and CSA recognized component. The allowable voltage range for 208-230/277V models is 180-305VAC.

The frame size of all Evergreen CM motors is NEMA 48 (5.6” diameter). All shafts are 1/2” diameter with a single flat. All shaft lengths are the same as listed below. See the listings below for each motors respective dimension from end shield to end shield (Dim. B) and end shield to shaft end (Dim. A).

<table>
<thead>
<tr>
<th>STOCK MODEL #</th>
<th>HP</th>
<th>VOLTAGE</th>
<th>ROTATION</th>
<th>MAX CURRENT</th>
<th>DIM A</th>
<th>DIM B</th>
<th>APPROXIMATE WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>6703</td>
<td>1/3</td>
<td>208-230/277V</td>
<td>CCW/CW</td>
<td>2.8 A</td>
<td>9.17''</td>
<td>5.25''</td>
<td>8.3 lbs</td>
</tr>
<tr>
<td>6705</td>
<td>1/2</td>
<td>208-230/277V</td>
<td>CCW/CW</td>
<td>4.1 A</td>
<td>9.67''</td>
<td>5.75''</td>
<td>11.3 lbs</td>
</tr>
<tr>
<td>6707</td>
<td>3/4</td>
<td>208-230/277V</td>
<td>CCW/CW</td>
<td>6.0 A</td>
<td>10.42''</td>
<td>6.5''</td>
<td>15.5 lbs</td>
</tr>
<tr>
<td>6710</td>
<td>1</td>
<td>208-230/277V</td>
<td>CCW/CW</td>
<td>7.6 A</td>
<td>11.17''</td>
<td>7.25''</td>
<td>19.3 lbs</td>
</tr>
</tbody>
</table>

SPEED (RPM) RATINGS. NOTE: ACTUAL RPM WILL VARY DEPENDING ON LOAD.

- High = 1075 RPM
- Med High = 1025 RPM
- Med = 975 RPM
- Med Low = 900 RPM
- Low = 825 RPM

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)