

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

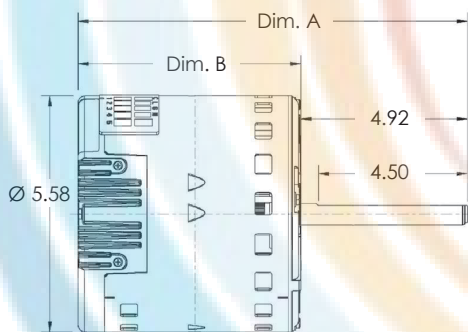


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See the Evergreen EM Installation manual for complete product installation details. Evergreen EM is a UL and CSA recognized component. The allowable voltage range is 90-132VAC for 115VAC models and 180-264VAC for 208-230VAC models.

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).

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



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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