

## 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



Rotation Sensing Technology™

A Regal Brand

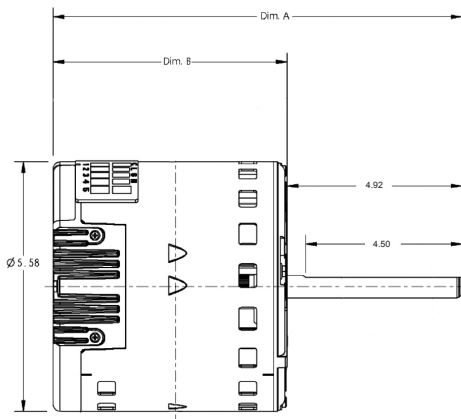
**REGAL**

# EVERGREEN® EM

See the Evergreen EM Installation manual for complete product installation details. This manual can be downloaded from [www.EvergreenDealer.com](http://www.EvergreenDealer.com). 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 MODEL #	HP	ROTATION	VOLTAGE	MAX CURRENT	DIM A	DIM B	APPROXIMATE WEIGHT
6103E	1/3	CCW/CW	115V	4.8 A	10.17"	5.25"	8.4 lbs
6203E	1/3	CCW/CW	208-230	2.8A	10.17"	5.25"	8.4 lbs
6105E	1/2	CCW/CW	115V	6.8 A	10.67"	5.75"	11.3 lbs
6205E	1/2	CCW/CW	208-230	4.1 A	10.67"	5.75"	11.3 lbs
6107E	3/4	CCW/CW	115V	8.4 A	11.42"	6.5"	15.6 lbs
6207E	3/4	CCW/CW	208-230	6.0 A	11.42"	6.5"	15.6 lbs
6110E	1	CCW/CW	115V	10.9 A	12.17"	7.25"	19.3 lbs
6210E	1	CCW/CW	208-230	7.6 A	12.17"	7.25"	19.3 lbs



## 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

- 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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