

## EVERGREEN® IM

### SPECIFICATIONS

- Multi-speed, constant torque, brushless DC motor
- Available in dual voltage rated 115V/230V 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 6-pole 1075rpm rated PSC motor
- Available in 1/2 and 1 multi-HP ratings
  - 1/2 HP rating (1/5-1/2)
  - 1 HP rating (1/2-1)
- Automatically determines motor direction using Genteq's Rotation Sensing Technology
- Four discrete speeds using 24VAC plus automatic continuous fan speed
- NEMA 48-frame (5.6 inch diameter) belly band mount with 5-inch long 1/2 inch diameter shaft
- UL and CSA recognized component

### BENEFITS

- Efficiency up to 80%
- Ready for connection to existing fan relays or circuit boards with 42" harness. No additional relays or components required
- Constant torque with better external static pressure control than standard PSC motor
- Soft start and off ramp for quieter operation
- Quiet and energy efficient continuous fan speed
- Encapsulated electronics
- 6kV surge protection
- Two year warranty



Rotation Sensing Technology™

A Regal Brand

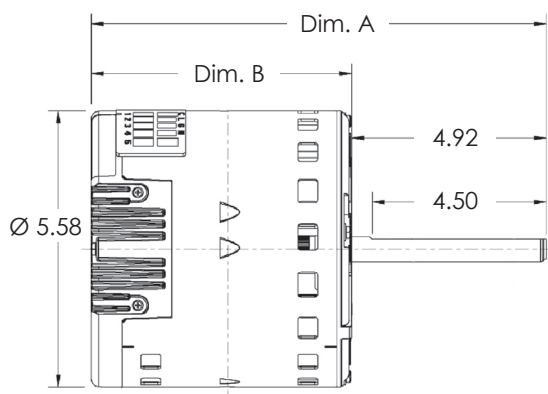
**REGAL**

# EVERGREEN® IM

See the Evergreen IM Installation manual for complete product installation details. This manual can be downloaded from [www.EvergreenDealer.com](http://www.EvergreenDealer.com). Evergreen IM is a UL and CSA recognized component. The allowable voltage range is 90-132VAC for 115VAC models and 180-264VAC for 230VAC models.

The frame size of all Evergreen IM 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
6005	1/2	115/230V	6.7/4.0 A	CCW/CW	11.26"	6.34"	12 lbs
6010	1	115/230V	11.0/6.7 A	CCW/CW	12.76"	7.84"	20 lbs



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

High	= 1075 RPM
Med High	= 1000 RPM
Med	= 925 RPM
Med Low	= 850 RPM
Low	= 600-700 RPM (based on HP selection)

Note: See installation manual for special constant fan operation

## 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 (1/2 Hp): -20 to +55 degrees Celsius (-4 to 131 degrees Fahrenheit)
- Operating (1 Hp): -20 to +45 degrees Celsius (-4 to 113 degrees Fahrenheit)

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