genteq®

Evergreen® OM Outdoor Fan Motor Model #6303S Installation Guide

Power Efficiency Solutions
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FORM
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⚠ WARNING Indicates a hazard which, if not avoided, could result in serious injury or death.

⚠ CAUTION Indicates a hazard which, if not avoided, could result in minor or moderate personal injury.

NOTICE Indicates information considered important, but not hazard-related (e.g. messages relating to property damage).

⚠ WARNING

- Read and follow all instructions carefully.
- Disconnect and lock out the main power from the unit being serviced before installing the Evergreen® OM motor. It is also a good practice to confirm that the power is disconnected with a voltmeter.
- Do not operate equipment without guards in place.
- Improper installation, adjustment, alteration, service, maintenance, or use could cause explosion, fire, electrical shock, or other conditions. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use the supplied or recommended parts when installing or servicing this product.
- After installing the Evergreen OM motor, it is the responsibility of the installing technician to verify the HVAC system matches the manufacturer's requirements for proper operation, capacity, efficiency and safety.

⚠ CAUTION

- Periodic inspections should be performed. Failure to perform proper maintenance could result in premature product failure.
- Installation and service of this motor should be performed only by trained and qualified service technicians familiar with the Evergreen® OM motor and the HVAC systems into which it will be installed.

This installation guide covers Evergreen® OM model 6303S.

Page 1 Mechanical installation
Page 2 Electrical installation
Page 3 Specifications, diagnostics and warranty information

Mechanical Installation

This motor is designed for vertical shaft down (VSD) or horizontal installations only.

Mount the motor using one of the following methods that best matches the installation of the motor being replaced.

- Extended clamp bolts:
  - Install four (4) standard nuts on the clamp bolts to act as back nuts.
  - Install motor through housing or shroud.
  - Install four (4) serrated nuts to secure to housing or shroud.

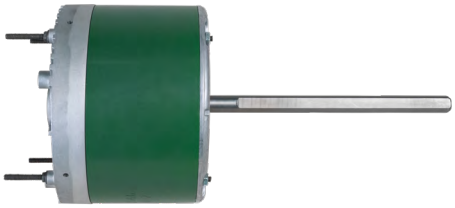
- Four (4) OEM mounting holes in the end shield with four (4) thread forming screws provided in the parts bag.
  NOTICE: IF THESE SCREWS ARE NOT USED FOR MOUNTING, DO NOT INSTALL THEM.

- Four (4) OEM side mounting holes in the end shield with four (4) thread forming screws provided in the parts bag.
  NOTICE: IF THESE SCREWS ARE NOT USED FOR MOUNTING, DO NOT INSTALL THEM.

- Belly band.







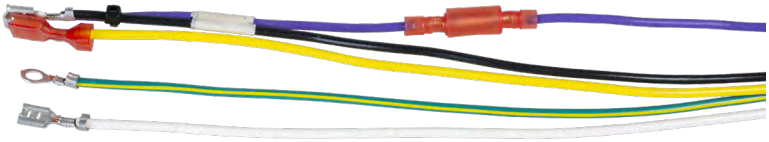
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Evergreen® OM Model 6303S

Electrical Installation

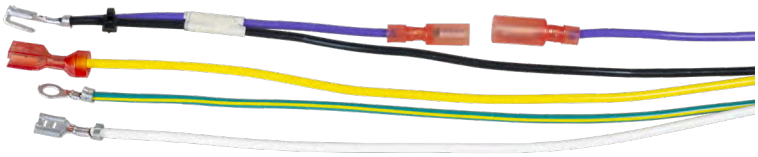
This motor is shipped configured for 1075 RPM / CCW operation.

1075 RPM / CCW Operation: Connect the yellow wire to the black wire, and then connect the purple wires together.



To configure the harness for a different RPM and/or rotation, see the instructions below.

1075 RPM / CW Operation: Connect the yellow wire to the black wire, and then disconnect the purple wires from each other.
825 RPM / CCW Operation: Disconnect the yellow wire from the black wire, and then connect the purple wires together.
825 RPM / CW Operation: Disconnect the yellow wire from the black wire, and then disconnect the purple wires from each other.



After the harness is configured for the RPM and rotation required, connect the white and black wires to contactor and the green wire to earth ground. See the diagrams below for A/C and heat pump systems.

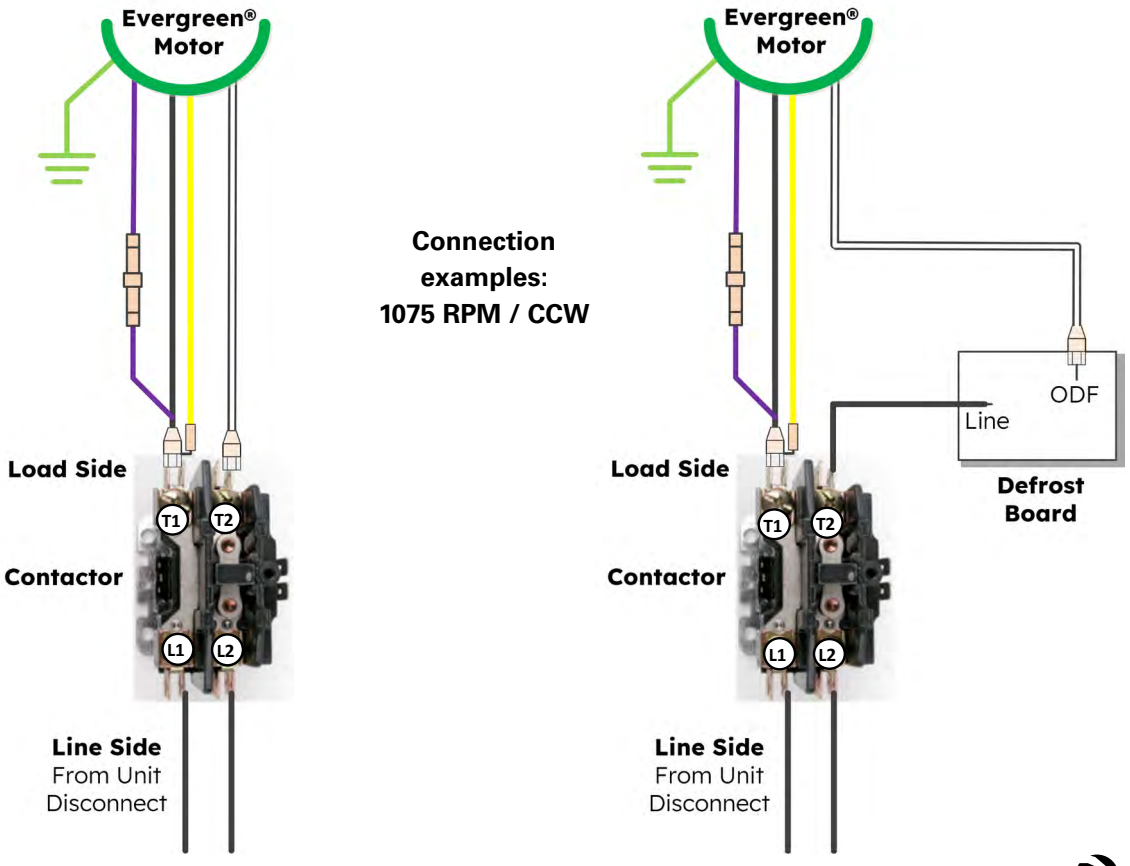
NOTICE: Insulate (tape or wire nut) any wires identified as "disconnect" in these instructions.

A/C Systems

- Connect the black and white wires to L1 and L2 on the load side of the contactor.
- Connect or disconnect the yellow and purple wires for required RPM and rotation.

Heat Pump Systems

- Connect the white wire to the defrost board. Follow the defrost board back to the contactor. Connect the black wire on the opposite side of the contactor.
- Connect or disconnect the yellow and purple wires for required RPM and rotation.



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Evergreen® OM Model 6303S

Specifications:

Voltage: 208-230 (allowable voltage range 196-264) VAC, single-phase input, 50-60 Hz

Horsepower: 1/3 HP (replaces 1/3-1/12)

Speeds: 2 operating speeds (Constant Speed)

- 1075 RPM (6-pole) replaces motors rated 1000-1100 RPM
- 825 RPM (8-pole) replaces motors rated 800-850 RPM

Rotation: CCW or CW by quick connect terminals (factory set to CCW)

- As viewed from lead end

Bearing: Permanently lubricated ball bearing

Ambient Rating: -20 - 60°C

Enclosure: Totally Enclosed Air Over (TEAO), NEMA® 48-frame

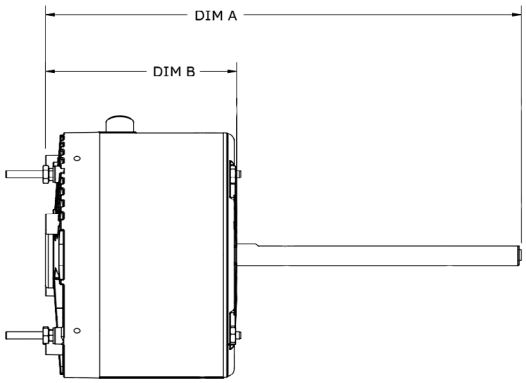
Shaft: .5" diameter, 6.5" length, 6" single flat

Mounting: Horizontal or vertical shaft-down (VSD), belly band, extended clamp bolts, or OEM mounting holes

Leads: 54" length with ¼" fast on terminals, ground wire #10 eyelet

UL Recognized Component

6kV Surge Protection



STOCK NO.	HP	VOLTS	MAX CURRENT	RPM	SHAFT	DIM A	DIM B
6303S	1/3 - 1/12	208-230	2.8	825/1075	.5" x 6.5" (6" SF)	10.98"	4.39"

Application Note:

This product is designed to replace induction motors (shaded pole or PSC) in direct-drive fan propeller applications. Do not use this motor to replace OEM ECM outdoor fan motors or belt drive motors. OEM ECM outdoor fan motors must be replaced with OEM equivalent.

Operation Note:

The Evergreen OM motor will turn on within 5 seconds after the motor receives line voltage, and then ramp up to speed.

The constant speed programming in this motor is what gives it the ability to replace a range of horsepower ratings with one speed selection. The speed selection provides the motor with an RPM operating point. The motor then uses only the torque (amperage) necessary to achieve this RPM operating point based on the size of the fan blade (load). To accomplish this the motor constantly monitors its operating speed RPM in real time.

Technical Support:

Contractor Hotline (1-866-503-8566)
Hours M-F 8am-5pm CST

If the motor does not operate with proper Line Voltage measured between the white wire and the black wire, it has failed and will require replacement. Before replacing the motor, please call the Contractor Hotline to confirm your diagnostics if possible.

Technical support is available for Evergreen products that are installed or serviced by trained and qualified technicians familiar with the Evergreen OM motor and the HVAC system into which it will be installed.

For more information about Evergreen OM motors, scan this code with your smart phone or go to:
www.EvergreenOM-motors.com

Terms & Conditions of Sale & Limited Warranty

Sales of the products described in this Installation Manual are subject to the "Regal Rexnord Terms and Conditions of Sale" current at the time of sale. They are accessible on RegalRexnord.com – https://www.regalrexnord.com (click "Terms and Conditions of Sale").

The full Limited Warranty, including the scope and period, remedies, exclusions and disclaimers, is described in Section 10 "Limited Warranty" of the Regal Rexnord Terms and Conditions of Sale and applies except as described below:

Section 10(a)(1) is replaced with the following: Seller warrants that the Products shall be delivered free from defects in material, workmanship and title. This warranty shall expire twenty-four (24) months from the date of installation or thirty (30) months from date of manufacture of the Product, whichever occurs first.

* NEMA is believed to be the trademark and/or trade name of National Electrical Manufacturers Association and is not owned or controlled by Regal Rexnord Corporation.

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