

Evergreen[®] OM (230v) Outdoor Fan Motor Installation Guide

HIGH VOLTAGE POWER CONNECTIONS

- STEP 1** Connect the Black L1 to Line Voltage L1 on the "LOAD" side of the contactor.
- STEP 2** Connect the White L2 to Line Voltage L2 on the "LOAD" side of the contactor.
- STEP 3** Connect the Green/Yellow stripe ground wire to system ground.

HIGH VOLTAGE SIGNAL CONNECTIONS

- STEP 1** Speed Connection
- A) For 8 pole speed (850 RPM) use the Orange wire
 - B) For 6 pole speed (1100 RPM) use the Yellow wire
- STEP 2** Connect to controls
- A) For A/C systems connect to Black Wire (piggy back)
 - B) For Heat Pump systems connect to defrost control
- STEP 3** Cap off unused speed wire with wire nut and/or electrical tape

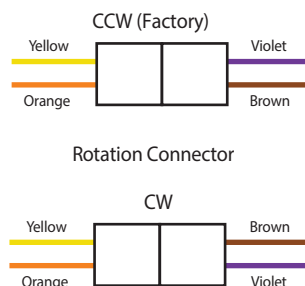
CHANGING ROTATION

From the factory, the motor will be set up for CCW rotation. As Viewed From Lead End.

The Yellow wire connected thru the 2 pin connector to the Violet wire and the Orange wire connected thru the 2 pin connector to the Brown wire.

- STEP 1** To change the rotation from CCW to CW:

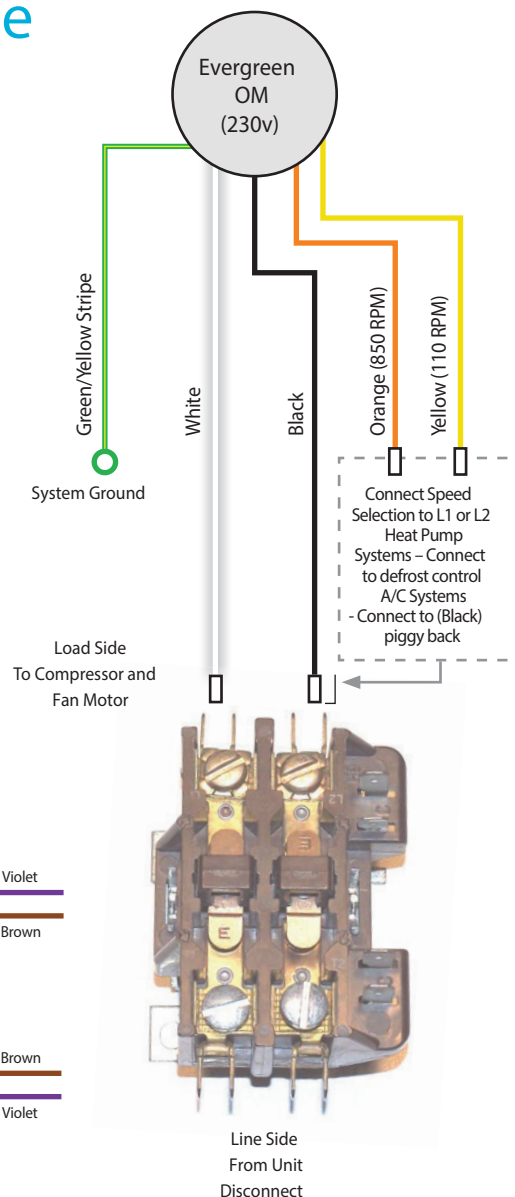
Disconnect the 2 pin connector and rotate it 180° so the Yellow wire is connected to the Brown wire thru the 2 pin connector and the Orange wire is connected to the Violet wire thru the 2 pin connector.



Note: Single Pole Contactors, connect the White wire to the unswitched side.

CAUTION

Secure all wires including the Rotation Connector out of the path of the fan blade before starting the motor!



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SPECIFICATIONS:

Voltage: 208-240 (allowable voltage range 187-264) VAC, single-phase input, 50-60 Hz

Horse Power: 1/5HP (replaces 1/5-1/10) 1/3HP (replaces 1/3-1/10)

Speeds: 2 operating speeds (Constant Speed)

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

Rotation: CCW or CW by reversing plug (factory set to CCW)

- As viewed from lead end

Bearing: Permanently lubricated ball bearing

Ambient Rating: 60° C

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

Shaft: Single, 1/2" diameter, 3" length, 2.5" single flat

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

Leads: 54" length with 1/4" fast on terminals, ground wire #10 eyelet

UL and CSA recognized component

SAFETY CONSIDERATIONS

The following definitions are used as safety considerations on the Evergreen OM motor and in this manual. Please read and observe all of these safety concerns.

SAFETY SYMBOLS

WARNING Warning indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION Caution indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Installation and service of this motor should be performed only by trained service technicians familiar with the Evergreen OM motor.

This motor should be installed in accordance with accepted practices and installation instructions, and in compliance with all national and local codes.

WARNING

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause personal injury, death, or property damage. 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.

WARNING

Always disconnect the main power from the unit being serviced before making any wiring connections to the Evergreen OM. It is also a good practice to confirm that the power is off with an electric voltmeter.

Stock No.	HP	RPM	Volts	Max Current
6301	1/5	1100/850	208-240	2.8
6303	1/3	1100/850	208-240	3.5

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:

Evergreen OM will delay on approximately 5 seconds after L1 or L2 voltage is applied to one of the speed wires, then ramp up to speed. The Orange and Yellow speed wires dictate the on/off command to the motor control.

REPLACING THE EVERGREEN OM:

If the motor does not operate with proper Line Voltage measured between the White wire and the Black wire, AND between the White wire and the Speed Selection, it is failed and will require replacement. Before replacing the motor, please call the Contractor Hotline (1-866-503-8566) to confirm your diagnostics if possible. **The Evergreen OM is a single component replacement. The control cannot be replaced separately from the motor.** Contact the distributor where the motor was purchased or any authorized Evergreen distributor for replacement.

TERMS & CONDITIONS OF SALE & LIMITED WARRANTY

Sales of the products described in this Installation Manual are subject to the "Regal Beloit Terms and Conditions of Sale" current at the time of sale. They are accessible on RegalBeloit.com – <http://www.regalbeloit.com/what-we-do/products-brands/> (click "Regal Terms and Conditions of Sale").

The full Limited Warranty, including the scope and period, remedies, exclusions and disclaimers current is described in Section 10 "Limited Warranty" of the Regal Terms and Conditions of Sale.

The following is the "Scope and Period" (Section 10(a)(1)) portion of the Limited Warranty applicable to the products described in this Installation Manual:

Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer and Seller in written and signed agreement, if applicable, for the Products. This warranty shall expire twenty-four (24) months from the first use of the Product or thirty (30) months from date of shipment of the Product, whichever occurs first.

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