

Quick Start Guide

Single/Three Phase Vari-Green® Motor

Vari-Green Motor Quick Start Guide

When delivered, the Vari-Green Motor is pre-programmed to run from either an on-board dial or a 0-10 VDC control signal. A 0-1.99 Volt control signal will be received as a “stand-by” command.

A run command is acknowledged, as well as a speed reference from 2-10 V.

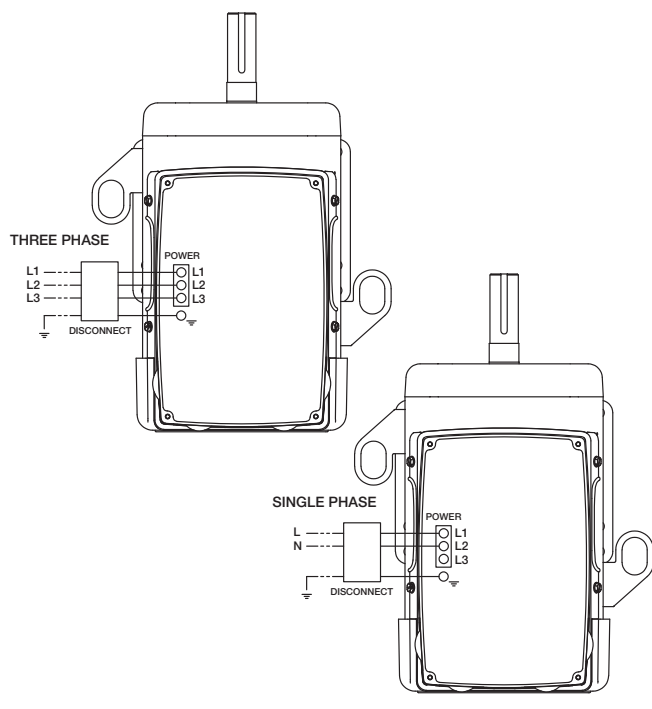
For more information about this Vari-Green Motor, please review the Installation, Operation and Maintenance Manual found by following this QR code:



www.greenheck.com/vari-green/vari-green-motors

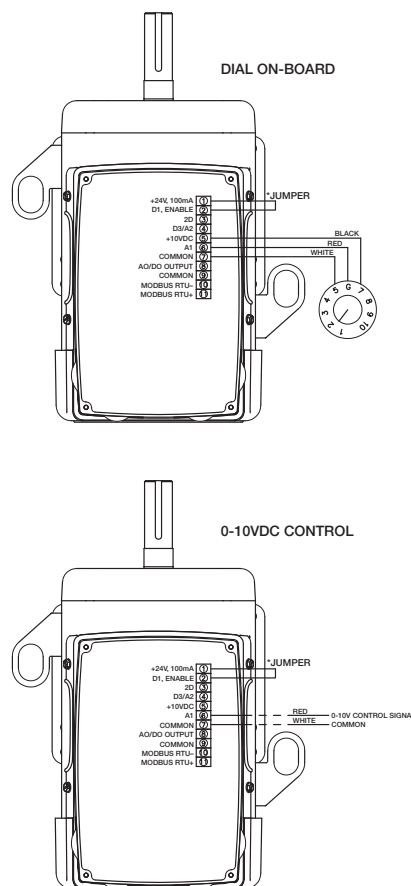
Step 1

Connect the power supply. Verify Input Voltage and phase matches nameplate of motor/drive.



Step 2

Connect control wiring to the control terminal.



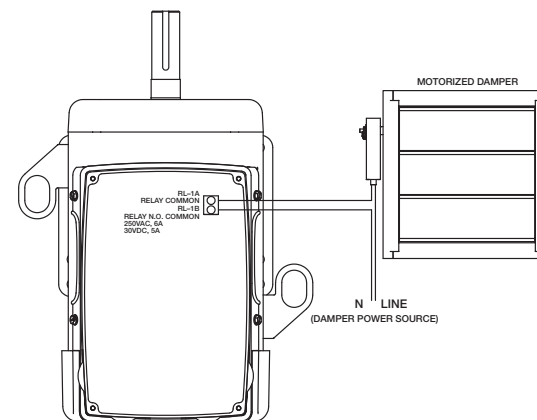
NOTE: Factory default settings:

1. Terminal 2 is set as an ENABLE command. From the factory there is a jumper from terminal 1 to 2. A START/STOP switch can be used between these terminals to ENABLE/DISABLE the drive.
2. When this Vari-Green Motor is ordered in a 0-10 VDC Control configuration, the motor is shipped with a jumper between terminal 5 and 6. This will run the motor at full speed when power is connected. Remove this jumper before landing 0-10 VDC control wires.



Step 3

Install motorized backdraft damper wiring, if applicable. The relay RL-1 is set from the factory to close when a run command is given.



Step 4



Apply power to unit. If a control signal is present, the RL-1 relay will close and the motor will ramp up to the referenced speed. If a jumper is installed between terminals 5 and 6, the motor will go to 100%.

Step 5

Balance the fan. Whether changing the position of the on-board dial or adjusting the control voltage, the fans speed can be set from the minimum to the motor's factory programmed maximum speed. Re-apply the motor cover.



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Step 6

Review the Installation, Operation and Maintenance Manual for the fan for any specific installation questions. The manual is shipped with the fan, and can also be found at www.greenheck.com or by scanning the QR code located within the drive compartment.

Electrical Data	
Supply Voltage Range	110 Volt Units, 99-126 V
	230 Volt Units, 180-264 V
	400 Volt Units, 342-528 V
Short Circuit Capacity	5kA Without Fused Disconnect
	100kA With Fused Disconnect
Control Terminal Wiring	
Maximum Size	0.05-0.5mm ² / 20-26 AWG
RL-1 Relay	
Relay N.O. Contact	250VAC, 6A/30VDC, 5A
Motor Enclosure	
Totally Enclosed Fan Cooled, IP54	



WARNING

- Do not remove the drive cover for wiring or periodic inspections while power is applied or the unit is in operation. Electric shock may occur from the exposed terminals.
- Wait at least 1 minute after disconnecting the input power before performing any wiring tasks and/or periodic inspections of the drive.
- Operate the Vari-Green motor and control devices with dry hands.
- Do not use this device if power or motor cable is damaged.
- As this is a permanent magnet motor, this motor will generate voltage when the shaft is rotated. Shaft must be locked out for safe servicing.

CAUTION

- Disconnect the input power if the Vari-Green motor has been damaged. Failure to do so may result in fire and/or secondary damage or accidents.
- Do not touch the Vari-Green motor immediately after shutting down or disconnecting it. It can remain hot for a few minutes. Bodily injuries such as skin-burn or damage may occur.
- Do not apply power to a damaged Vari-Green motor or to a Vari-Green motor that is missing parts.
- Do not allow lint, paper, wood chips, dust, metallic chips or other foreign material into the drive as it may cause fire or accident.



Vari-Green Controls



Vari-Green Controls all use a 0-10 VDC control signal to provide a speed reference to Vari-Green Motors. See below for typical Vari-Green wiring. Reference the individual controls Installation, Operation and Maintenance Manual for programming, wiring and troubleshooting of that control.

