

## **Motor Minute™ Technical Tip – Genteq® Evergreen® EM Universal Constant Torque ECM Replacement Motors**

Hi, Chris from Regal Rexnord here with your Motor Minute technical tip. Helping you become an HVAC motor pro one minute at a time.

Today's motor minute topic is Genteq Evergreen EM universal constant torque ECM replacement motors.

Constant torque ECM (Electronically Commutated Motors) were introduced to the HVAC industry in 2006 with the 13 SEER regulation. These motors are now commonplace in all applications of HVAC equipment due to the FER 2019 regulation.

Constant torque ECM motors are predominantly built with a recognizable standard 9-terminal plug at the motor.

The terminal designations are also typically embossed in the area around the plug.

- **(L)** and **(N)** are the line voltage connections
- **(G)** is ground
- **(C)** is 24 VAC common
- **(1-5)** are the 24 VAC speed taps

The Evergreen EM motor is a universal replacement constant torque motor capable of replacing the following motors:

- Genteq models X13, Endura® Pro & Evergreen EM motors
- US Motors®\* models SelecTech®\* and RESCUE SELECT®\* motors
- Broad Ocean®\* motors

The Evergreen EM motor is pre-programmed, so it is ready to use out of the box. Built with the same standard 9-terminal plug as the OEM motors it is designed to replace, it is also compatible with the OEM harness and plugs.

Find out more about Evergreen® EM motors at [ECMMadeEasy.com](http://ECMMadeEasy.com).

And that's a wrap on this segment of Motor Minute technical tips. Remember that we provide motor training and product information in multiple formats including videos, literature, podcasts, articles, of course Motor Minute technical tips and classroom education both online and face to face. All of this industry leading training is available at no charge to HVAC professionals at [regalmmu.com](http://regalmmu.com). Thank you for taking the time to build your motor knowledge.

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