



### Emerson Motor Company

8100 West Florissant Ave.  
St. Louis, MO 63136

Phone: 877-600-3190

Fax: 314-595-8315

[www.emersonmotors.com/MRO](http://www.emersonmotors.com/MRO)

## Emerson Facilities Maintenance Solutions

### COMPETITIVE CROSS REFERENCE SEARCH CAPABILITIES

Over 50,000 cross references are available for popular EMERSON® and U.S. MOTORS® brands, both integral and fractional, for competitor or OEM catalog numbers and model numbers. The competitive search tool is available at: [www.emersonmotors.com/MRO](http://www.emersonmotors.com/MRO)

### EXTENSIVE MOTOR AVAILABILITY NETWORK

Worldwide network of distributors with stock availability of EMERSON fractional and U.S. MOTORS brand integral motors. Browse the list at [www.emersonmotors.com/MRO](http://www.emersonmotors.com/MRO)

### ENERGY INDEPENDENCE & SECURITY ACT OF 2007

The Energy Independence & Security Act of 2007 (or EISA for short) will move the current energy efficient 1 to 200 HP general purpose product to NEMA Premium® efficient standards (NEMA MG1 12-12), starting December 2010. Emerson stocks NEMA Premium Open Dripproof and Totally Enclosed Fan Cooled electric motors that meet the EISA requirements. To learn more, go to [www.emersonmotors.com/MRO](http://www.emersonmotors.com/MRO)

### ONLINE MOTOR SPECIFICATIONS & TECHNICAL DATA

Easily access up to date information on every EMERSON motor. Find dimension prints, performance data, nameplate data, wiring diagrams, curves, renewal parts lists, installation and maintenance manuals, 3D models, and more. All are just a click away: [www.emersonmotors.com/MRO](http://www.emersonmotors.com/MRO)

### ONLINE CHAT

Get answers quickly to your technical or product questions through interactive on line chat service at [www.emersonmotors.com/MRO](http://www.emersonmotors.com/MRO)

### EXPERIENCE

For more than a century, Emerson has been manufacturing reliable, quality electric motors. We develop standard, as well as custom, solutions that enable our customers to lead their industry with advanced motor capabilities. We bring together technology and engineering to deliver solutions for our customers. Learn more at [www.emersonmotors.com](http://www.emersonmotors.com)

### PRODUCT SCOPE

From small fractional horsepower motors that drive fans and blowers to large integral horizontal and vertical motors that power large industrial machinery, we have the breadth of product to meet virtually any customer need, on any business scale. For more information, visit [www.emersonmotors.com/MRO](http://www.emersonmotors.com/MRO)

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# WATER & WASTEWATER FOR PULP & PAPER INDUSTRY

## TOTALLY ENCLOSED FAN COOLED ELECTRIC MOTORS



EMERSON. CONSIDER IT SOLVED.®

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# Emerson® Motors provide NEMA Premium® Efficiency for Pulp & Paper Industry

## CORRO-DUTY® NEMA PREMIUM OPTION

### CORRO-DUTY® Brand Totally Enclosed Fan Cooled Motors



- All Cast Iron Construction (Steel Frame & Fan Cover on 140 Frame)
- NEMA Premium® Efficient
- Precision Balance (<0.08 In/Sec Vibration)
- Corrosion Resistant Mill & Chemical Duty Paint
- Oversized Conduit Box – 1 Size Larger than NEMA® standard
- Class F Insulation, Class B Temperature Rise at Full Load
- Cast Iron Bearing Caps on 180 Frame and Larger

CORRO-DUTY® brand electric motors are suitable for severe environments found in the pulp and paper industry. The added features of the CORRO-DUTY motor provide an even greater array of features to help protect and extend the life of the motor.

CORRO-DUTY electric motors are all cast iron — frame, end shield, fan cover and oversized conduit box — to help protect from damage. The corrosion resistant mill and chemical duty paint help protect the motor exterior from rust and corrosion. The shaft slinger on the pulley helps protect the internal components from dust. The steel nameplate and zinc hardware protect against rust. The precision balance helps reduce vibration.

CORRO-DUTY motors meet NEMA Premium® efficiency standards allowing for greater performance and help in saving energy costs.

Available from 1 to 200HP, 230/460V, 460V and 575V in 2, 4 and 6 pole options. Footed and c-face footed options are available.

## 841 PLUS® NEMA PREMIUM FULL-FEATURED OPTION

### 841 PLUS® Brand Totally Enclosed Fan Cooled Motors



- All Cast Iron Construction (Steel Frame & Fan Cover on 140 Frame)
- NEMA Premium® Efficient
- Meets or Exceeds IEEE 841 Standard – 2001
- Cast Iron Bearing Caps on 180 Frame & Larger
- Corrosion Resistant Mill & Chemical Duty Paint
- Meets Vibration Requirements of GM7E-TA
- Class F Insulation, Class B Temperature Rise at Full Load
- Oversized Conduit Box – 1 Size Larger than NEMA® standard
- 5 Year Limited Warranty\*

Emerson's 841 PLUS® electric motors are designed to exceed the IEEE® 841 Standard (2001). These rugged motors are ideal for constant speed or inverter duty applications typically found in pulp and paper industries.

The 841 PLUS motors are NEMA Premium® efficient, which assists in minimizing operating temperatures and ultimately lowering costs. The motors include Inpro/Seal® VBXX® bearings on both ends, which provides IP55 protection, and helps prolong motor life by shielding bearings from contaminants such as dust and dirt. The motors include special shaft runouts of 0.0010 inches for motors up to 200HP. The motors are machined to foot flatness within 0.005-inch tolerance to help ensure easy installation and proper alignment.

All 841 PLUS® motors carry a five-year limited warranty\* for sine wave power and a three-year limited warranty\* on inverter duty applications.

Available from 1 to 400HP, 460V and 575V, in 2, 4 and 6 poles with footed and c-face footless options.

† All non-Emerson Electric Co. marks shown within this document are properties of their other respective owners.

\*For details, refer to: <http://www.usmotors.com/FL600/LimitedWarranty.pdf>