

Premium Efficient Motors



Product Overview and Options

Nidec Motor Corporation offers an extensive line of industrial and commercial U.S. Motors® brand high efficiency electric motors that meet or exceed NEMA Premium^{®†} standards, ensuring your facility complies with local electrical codes and safety regulations.

Industrial Cast Iron Motors for Hostile, Severe Environments

- Hostile Duty Motors
- CORRO-DUTY[®] Motors
- 841 Plus[®] Motors

Commercial Duty Motors Used In Office Buildings, Schools, and Other Federal Facilities

- Open Dripproof Motors
- UNIMOUNT[®] Motors

HVAC Motors for Air Moving and Conditioning Applications

- Cooling Tower Duty Motors
- Open Dripproof Motors
- UNIMOUNT[®] Motors

Hostile Duty Motors

- Totally Enclosed Fan Cooled
- Three Phase, 60 Hertz
- 1.00 and 1.15 Service Factor
- 1 through 350 HP
- 2, 4, 6, and 8 Poles
- 143 through 286 Frame
- Cast Iron Frame and Brackets
- Ball and Roller Bearing Options



NEMA Premium

CORRO-DUTY[®] Motors

- Totally Enclosed Fan Cooled
- Three Phase, 60 Hertz
- 1 through 200 HP
- 2, 4, and 6 Poles
- 143 through 447 Frame
- All Cast Iron Construction



NEMA Premium

841 Plus[®] Motors

- Totally Enclosed Fan Cooled
- Three Phase, 60 Hertz
- 1.0 or 1.15 Service Factor
- 1 through 400 HP
- 2, 4, 6, and 8 Poles
- 143 through 447 Frame
- VBBX^{®†} Bearing Isolators by Inpro/Seal
- Meets IEEE^{®†} 841 GM7E-TA Specifications
- Five Year Warranty*
- Footed and C-Face Footless



NEMA Premium

Product Overview and Options *continued*

Open Dripproof Motors

- Three Phase, 60 Hertz
- 1.0 and 1.15 Service Factor
- 1/4 through 400 HP
- 2, 4, 6, and 8 Poles
- 48 through 449 Frame
- Close Coupled Ratings Available



UNIMOUNT® Motors

- Totally Enclosed Fan Cooled
- Three Phase, 60 Hertz
- 1.25 Service Factor
- 1/4 through 30 HP
- 2, 4, 6, and 8 Poles
- 50 through 286 Frame
- C-Face, Footed and Footless
- Removable Base 180 Frame and Above
- F2 Field Assembly
- Close Coupled Ratings Available



Hazardous Location Motors

- Totally Enclosed Fan Cooled
- Three Phase
- 1 to 200 HP
- 2, 4, and 6 Poles
- 143 to 447 Frame
- Single and Dual Label



Automotive Duty, U-frame Motors

- Totally Enclosed Fan Cooled
- Three Phase, 60 Hertz
- 1/4 through 300 HP
- 2, 4, 6, and 8 Poles
- 56 through 5008 Frame
- Motors Available that Meet GM-7EQ, GM-7EH, Ford EM1 and Chrysler NPEM-105 specifications



Cooling Tower Motors

- Totally Enclosed Fan Cooled and Totally Enclosed Air Oven Options
- Three Phase, 60 Hertz
- 2 through 100 HP
- 4, 6, 4/8 Poles
- 145 through 449 Frame
- Single Speed and Two Speed Options
- Motors Available that Meet Specifications for Baltimore Aircoil Company, Inc., Evapco, Inc., and SPX Cooling Technologies, Inc.



The Energy Independence and Security Act

On December 19, 2010, commercial and industrial motor manufacturers and importers will raise efficiencies to the NEMA Premium[†] levels for all general purpose motors up to 600 volts, from 1 to 200 horsepower, in NEMA frame sizes. Additional categories of motors will be raised to energy efficient levels.

What does this mean for your business?

- The implementation of NEMA Premium[†] and the elimination of the corresponding energy efficiency standards has removed models in both stock and configured categories.
- All customers, whether OEM, reseller or end-user need to comply.
- OEMs may require 3rd party certification of their equipment through UL[®] / CSA[®].
- End-user will see first cost go up, but will benefit from life cycle reduction in energy costs.

We make the transition EASY

Nidec Motor Corporation's line of high performance commercial and industrial U.S. Motors brand motors is designed to help industry reduce energy consumption and comply with EISA regulations. This line features upgraded open dripproof and totally enclosed motors that meet or exceed NEMA Premium[†] requirements.

All high performance motors carry a nameplate including both 50 and 60 Hz operating data, a NEMA Premium[†] trademark and European IE efficiency marks, providing a clear means for both users and OEM's to verify global regulatory compliance.

In addition to a full line of horizontal motors, the U.S. Motors[®] brand line of vertical motors are available at Premium efficiency levels to address customer requirements.

The NEMA Premium[†] line also complies with recent Canadian and Mexican standards.

Want to learn more about motor efficiency and saving energy costs?

The online MotorPro[®] training tool features a new module on electric motor energy efficiency. Just visit www.usmotors.com/motorpro, and choose Module 3 for complete details on energy laws and efficiency — and on how you can reduce your energy usage and operating costs.

[†] All marks shown within this document are properties of their respective owners. Note: For premium efficient vertical motor designs, visit www.usmotors.com

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