WOLONG
*Power your future*

EMPORIUM ENERGY



# XSD Ultra 841

## Extra Severe Duty LV Motors

NEMA Premium Efficient
0.75 - 300 HP
460, 575 V

# Premium Efficient Motors
are not all built the same.



## Reliability is built in.

Purchasing dependable electric motors is an investment in the reliability of your operations. And system reliability means serious money to your bottom line.

We've engineered motors to address all of the top factors that can shorten motor life:

**Bearings**
Heat
Stress, Load, Fatigue
Vibration
Misalignment
Contamination
Lubrication
Electrical discharge

**Windings**
Heat
Inverters
Voltage problems
Load
Contamination

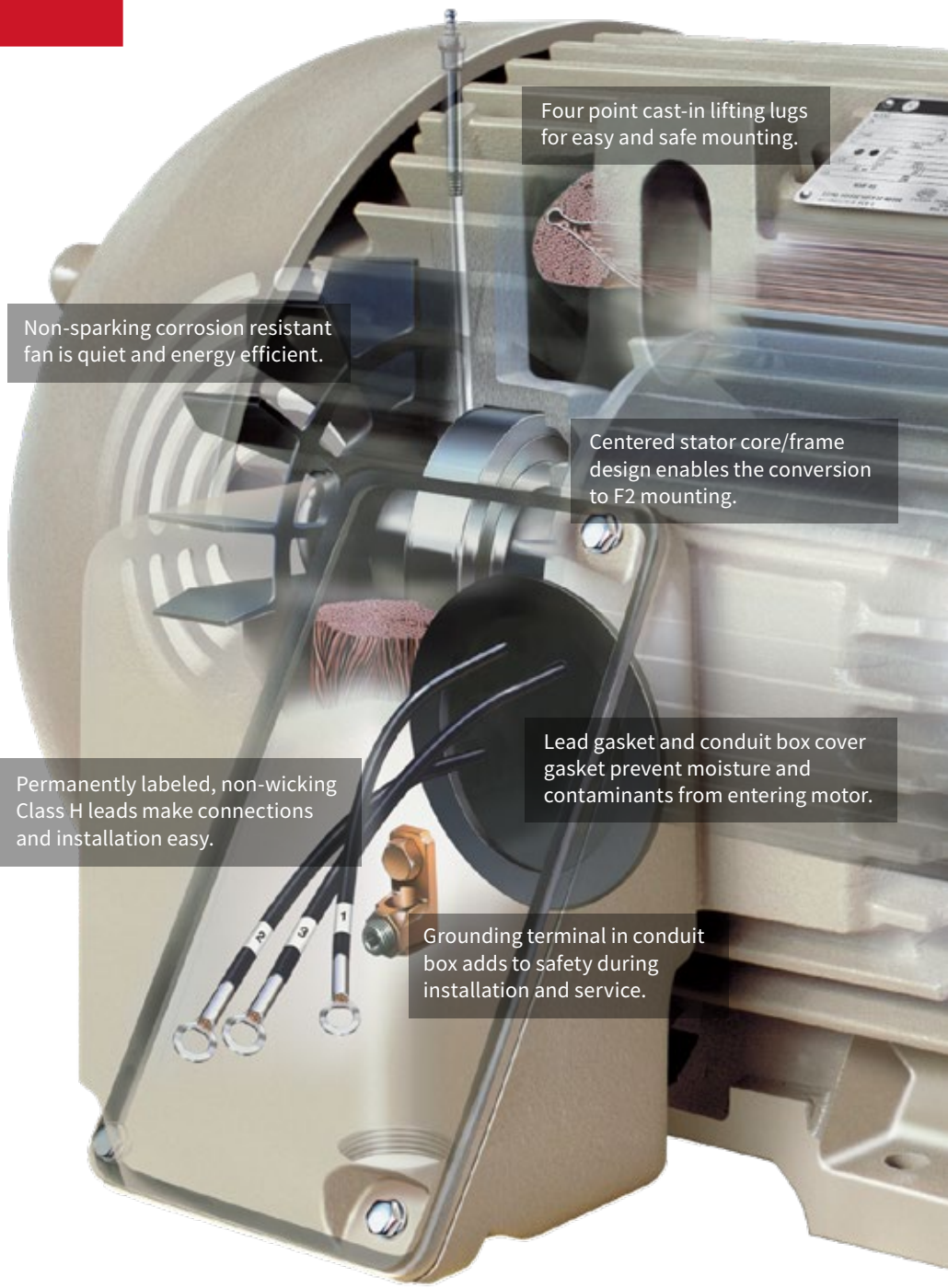
## Key Features

Each motor comes with its own test report demonstrating performance compliant with the IEEE 841-2009 specification

Five year warranty (60/66 months) is standard. This comprehensive warranty program covers both mechanical and NEMA Premium efficiency performance.

ISO 1940 Grade 1.0 Precision Plus balance to 0.04 in/sec results in smooth, reliable operation and long bearing life.

Built for a long 130,000 hour L10 direct connected and 26,280 hour L10 belted bearing life without life adjusting factors.




Complete Test per MG1 Part 12 IEEE Standard 112, Test Method B on 2% of all production. Verification of compliance and routine test report supplied with every XSD Ultra motor.

Stock XSD Ultra motors can be UL listed, CSA listed, or self certified for Division 2 locations or modified to meet ATEX Zone 2 or CE requirements.

NEMA Premium
EISAct 2007 Compliant
IEEE

## GEGARD™ Insulation offers added protection.

Our Class H GEGARD insulation system is designed to excel in variable frequency drive applications where lesser designs often short circuit and cause overcurrent trips.

VFD READY NEMA MG1 PART 31

### Rotational Varnish Application

Even resin coverage.
Less gaps (helps prevent corona inception damage).

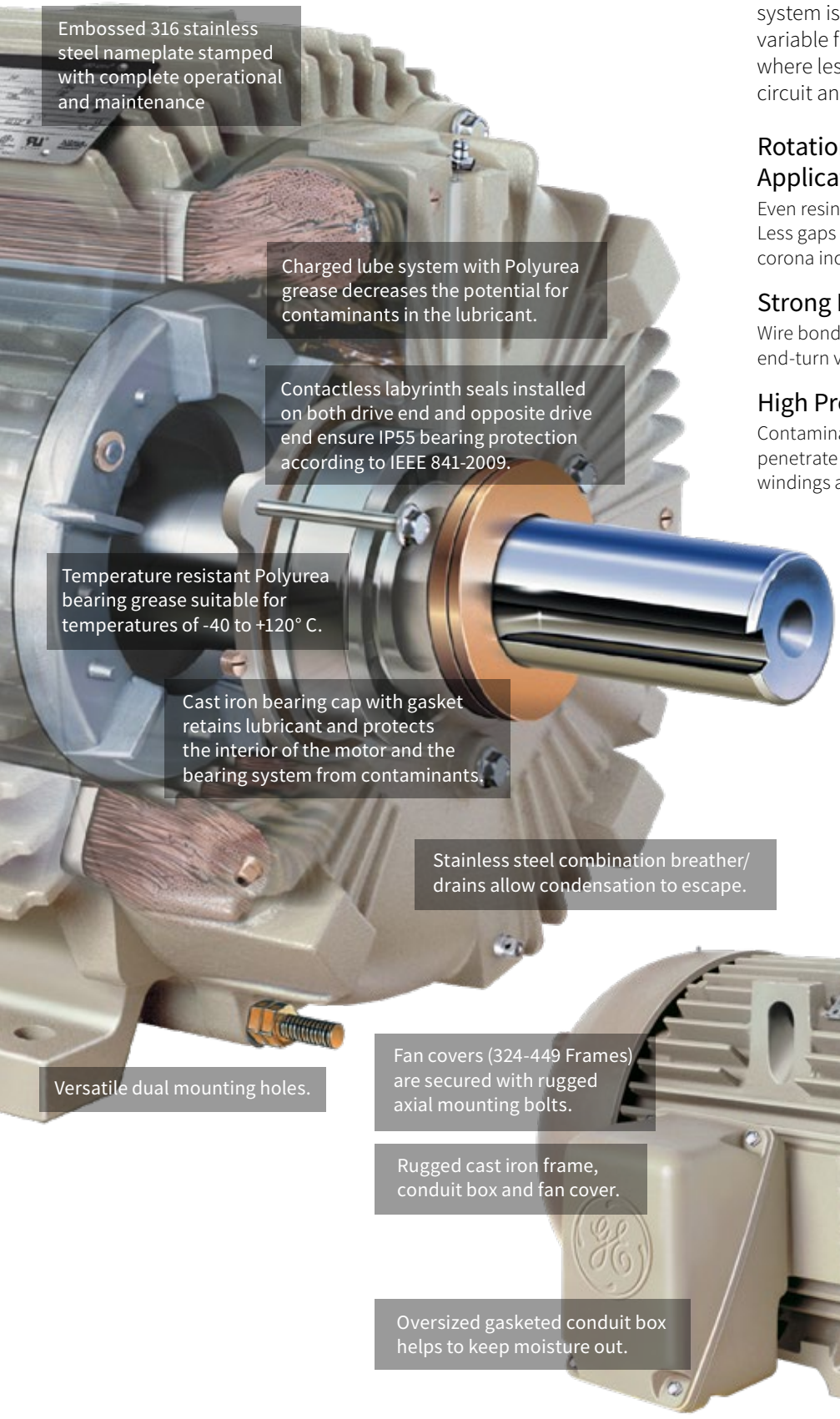
### Strong Bond

Wire bonding guards against end-turn vibration.

### High Protection

Contaminants can't penetrate tightly bonded windings and slots.





Embossed 316 stainless steel nameplate stamped with complete operational and maintenance

Charged lube system with Polyurea grease decreases the potential for contaminants in the lubricant.

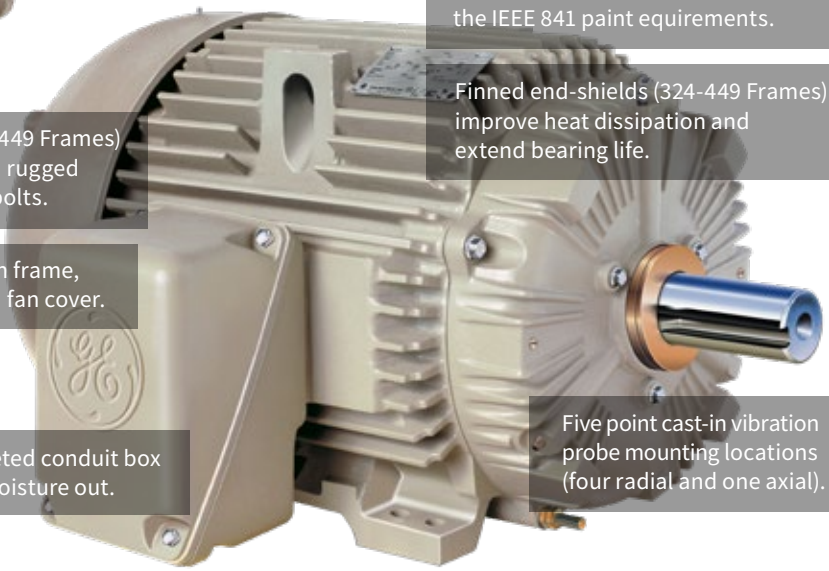
Contactless labyrinth seals installed on both drive end and opposite drive end ensure IP55 bearing protection according to IEEE 841-2009.

Temperature resistant Polyurea bearing grease suitable for temperatures of -40 to +120° C.

Cast iron bearing cap with gasket retains lubricant and protects the interior of the motor and the bearing system from contaminants.

Stainless steel combination breather/ drains allow condensation to escape.

Versatile dual mounting holes.



Corrosion resistant and rugged SAE Grade 5 hardware.

Epoxyester paint system stands up to corrosive environments and meets the IEEE 841 paint equirements.

Finned end-shields (324-449 Frames) improve heat dissipation and extend bearing life.

Fan covers (324-449 Frames) are secured with rugged axial mounting bolts.

Rugged cast iron frame, conduit box and fan cover.

Oversized gasketed conduit box helps to keep moisture out.

Five point cast-in vibration probe mounting locations (four radial and one axial).

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