

PRODUCT NOTE

# Baldor-Reliance® IEEE 841XL

## Extended reliability for severe duty applications



Our line of 841XL motors are designed to meet and exceed the requirements of IEEE Std. 841-2009. This industry standard was created for the petroleum and chemical industry to improve the reliability, efficiency and performance of Severe Duty motors used in those applications — and has been adopted by other industries with harsh operating environments.

**BALDOR • RELIANCE**



**Reliable**

Its rugged design and extra- tough features minimize vibration, runs cooler with our patented PLS lubrication system providing low-maintenance service in moist, contaminated, or harsh environments.



**Easy to install**

It's all in the details – from oversized conduit boxes, lead separators, color leads, foot flatness, vertical jack screw holes, dowel pin holes, embossed stainless steel nameplates – this motor has got it all.



**Safety**

From the installation process to operating process – these motors are certified to be used in hazardous locations (Class I, Division 2).



**Protection**

Used in some of the harshest environments – the IEEE 841 has all the protection a motors needs with premium sealing and IP56 ratings.



**Rugged**

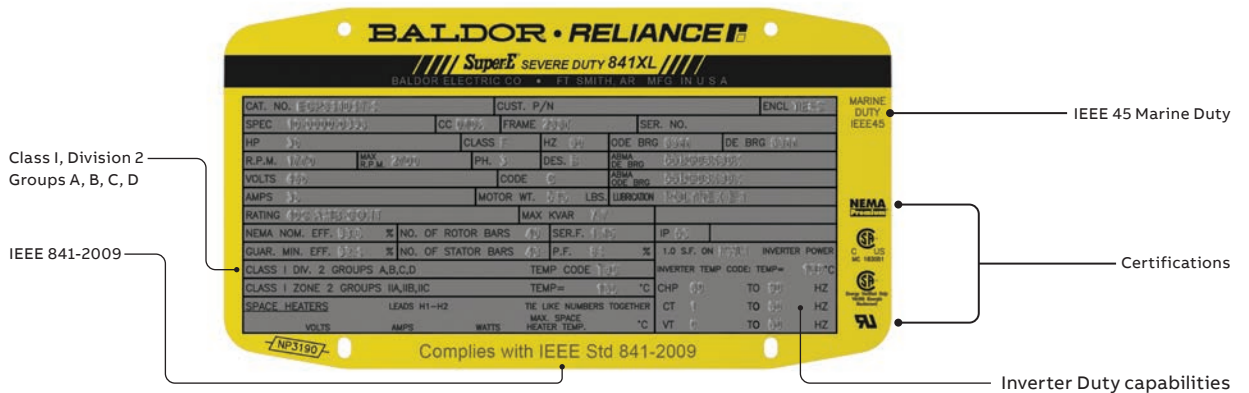
Heavy-duty cast-iron construction, corrosion resistant epoxy finish, and premium efficient electrical designs are backed by a 5-year warranty.



**Globally recognized standards**

IEEE 841XL exceeds the IEEE standard 841-2009 and meets NEMA Premium® efficiency standards.

# IEEE 841XL



## Specifications

<b>Power range</b>	1 thru 300 Hp
<b>NEMA frame size</b>	143T – L449T
<b>Voltage</b>	460 and 575 volt
<b>Mounting</b>	Foot mounted, C-Face (foot mounted and footless) and vertical p-base
<b>Ingress protection</b>	<b>IP56</b> (Exceeds the IP55 requirement of IEEE 841)
<b>Bearing</b>	<b>Patented PLS lubrication system for bearing longevity</b>
<b>Sealing</b>	Non-contact, rotating labyrinth seal – DE & ODE
<b>Mechanical design</b>	Durable cast-iron end-shields are machined to close tolerances for exacting alignment of bearings and rotors
	All hardware is hex head, high strength and zinc-plated SAE
	<b>Vertical jacking provisions. 250 frame and above</b> <b>Dowel pin holes. 250T frame and above</b> Grease inlet and auto relief fittings <b>Inverter ready per NEMA MG1 Part 31.4.4.2</b>
<b>Electrical design</b>	Class F insulation with Class B rise @1.0 service factor
	NEMA Design B torques as a minimum
	Lead lugs
<b>Certification and tests</b>	Class I, Division 2, Groups A, B, C, D with T3 at 1.0SF
	<b>Meets and exceeds IEEE Std. 841-2009</b>
	<b>Meets and exceeds IEEE 45 on nameplate</b>
	Documented final motor test – ships with motor
<b>Other IEEE 841 requirements</b>	Epoxy paint system exceeds 300+ hour salt fog test per ASTM B117
	Foot flatness within 0.005 inches for precision alignment to driven equipment
	Draft angle on top of mounting feet is 1.5° or less to make proper mounting easier
	Vibration limits 0.08 in/s peak velocity
	All internal rotor, stator and shaft surfaces are epoxy coated
<b>Only from ABB</b>	Embossed stainless steel nameplates include all required NEMA data plus actual motor weight and guaranteed minimum efficiency
	<b>5-year warranty</b> <b>ABB Ability™ smart sensor for condition monitoring</b>

Red text = specifications go beyond IEEE 841 requirements

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