

RGZEESDX TEFC Motors



NEMA Premium® Efficiency IEEE 841 motors exceed IEEE 841-2001 standards for energy efficiency, high performance, variable speed operation, rugged construction and long service life for the most demanding applications. They are ideal for use in chemical processing, mining, foundry, pulp and paper, waste management and petro/chemical applications.

Performance Specifications

- 1 to 400 HP
- 1.15 service factor, 40°C ambient
- 3600, 1800, 1200 or 900 RPM
- 3 phase, 60 Hz; 460 volt; 575 volt available
- Meets or exceeds IEEE 841-2001 standards
- Meets or exceeds NEMA Premium efficiency standards
- Class F insulation, Class B temperature rise
- NEMA Design B, Continuous Duty
- 0.06 IPS vibration / 0.005" foot flatness
- 143T through S449 frame



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Features for Long Life:

Frame & End Shields – Cast iron construction for exceptional structural integrity with condensation T-drains. Lifting eyebolts are included for all frames.

Rotor – A unique offset rotor bar design provides improved efficiency while larger bars and end rings reduce resistance for lower rotor losses. Each die cast aluminum rotor assembly is precision balanced to ISO G1.0 for extended bearing life, and includes a high-strength carbon steel (C1045) shaft for maximum rotor performance.

Stator/Windings – Manufactured with premium electrical-grade steel laminations and copper electrical magnet wire to lower losses for improved efficiencies. A unique stator core design lowers flux density while increasing cooling capacity. Large conductor cross section reduces resistance, also lowering stator losses.

Insulation – Proprietary inverter-rated Class F non-hygroscopic insulation system with NEMA Class B temperature rise, provides an extra margin of thermal life. Varnish system application ensures maximum wire penetration to provide protection from moisture, corrosion and electrical shock. This insulation system meets or exceeds NEMA MG1-2003, Part 31 making all motors suitable for operation with variable frequency drives.

Cooling – A bi-directional, non-sparking fan is locked and keyed to the shaft. Its low-inertia design reduces windage losses, improves airflow, reduces noise and provides dependable cooling. Cast iron fan covers are provided on all frame sizes.

Bearings – Regreasable, oversized single-shielded with cast iron inner caps. Alemite grease inlet fittings and automatic grease relief fittings for ease of routine maintenance. Inpro/Seal® bearing isolators are standard on both bearing housings.

Lubrication – A specially formulated, high temperature tested, polyurea-based grease is used to provide more than four times the lubrication life of other polyurea greases. Seamless, grease-filled lubrication pipes are included.

Oversized Conduit Box – Cast iron construction that is larger than industry standards, diagonally split, neoprene-gasketed and rotatable in 90° increments for quick and easy connections. Includes a ground lug and non-wicking, clearly and permanently marked leads.

Corrosion Resistance – Cast iron construction, zinc-plated hardware, epoxy enamel paint and embossed stainless steel nameplate resist rust and corrosion.

Modifiable – All Siemens motors are available with a wide variety of modifications to meet your specific motor needs.

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