# RGZESD Multi-Speed
TEFC Motors

HIGH EFFICIENT • SEVERE DUTY • CAST IRON FRAME

High efficiency multi-speed motors are ideal for both indoor and outdoor applications, and in severe duty operating atmospheres such as fans, pumps & blowers which require more than one base speed. They meet or exceed NEMA and CSA standards and the operational standards for severe operating environments.

**Performance Specifications**

- 1 to 250 HP
- 1.15 service factor, 40°C ambient
- Speeds:
  – 1 winding, 1800/900 RPM, variable or constant torque
  – 2 windings, 1800/1200 or 1800/900 RPM, variable or constant torque
- 3 phase, 60 Hz; 460 volt; 200, 230 & 575 volt available
- Meets or exceeds NEMA Energy Efficiency standards
- Class F insulation, Class B temperature rise
- NEMA Design B, Continuous Duty
- 143T through 449T frame

nema MOTORS

SIEMENS

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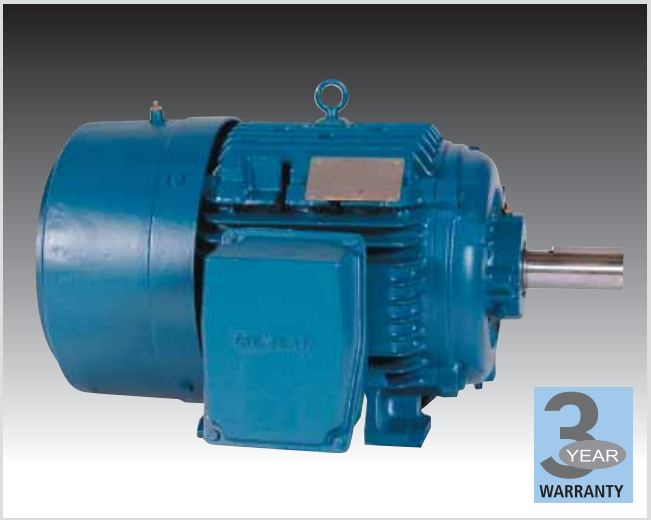
## TEFC Motors




**Features for Long Life**

**Frame & End Shields –** Cast iron construction for exceptional structural integrity with condensation T-drains. Lifting eyebolts are included for frames 213T to 449T.

**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 dynamically balanced 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.

**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 fittings on the inlets and pipe plugs on the relief ports for ease of routine maintenance. For added bearing protection, 143T-256T frames have a drive end shaft seal and 284T-449T frames have a drive end shaft V-ring slinger.

**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.

**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 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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