

RGZEAD

Automotive Duty TEFC Motors

Automotive Duty TEFC motors are approved for use by major US automobile manufacturers. They meet or exceed the requirements per GM7EH, GM7EQ, Ford EM 1, and Chrysler NPEM 100 and previous NEMA U-Frame motor standards. These motors are ideal for applications where automotive approved motors are required, such as: pump, fan, compressor, conveyor and other constant speed applications.

Performance Specifications

- 1 to 100 HP
- 1.15 service factor, 40°C ambient
- 1.0 service factor, 65°C ambient
- 3600, 1800 or 1200 RPM
- 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
- 182U through 445U frame



nema

MOTORS

SIEMENS

RGZEAD

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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 frames 213U to 445U.

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. 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 fittings on the inlets and pipe plugs on the relief ports for ease of routine maintenance. For added bearing protection, 182U-256U frames have a drive end shaft seal and 284U-445U 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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