

RGZP
TEFC Motors



General Purpose TEFC motors are ideal for both indoor and outdoor applications and in operating atmospheres that contain moisture, dust and grit. These industry workhorses are ideal for use in material handling, pump, fan, compressor and other industrial applications.

Performance Specifications

- 1 to 200 HP
- 1.15 service factor, 40°C ambient
- 3600, 1800, 1200 or 900 RPM
- 3 phase, 60 Hz; 230/460 volt operation under 100 HP, 460 volt 100 HP and above; 575 volt available
- Meets or exceeds EPA efficiency standards
- Class F insulation, Class B temperature rise
- NEMA Design B, Continuous Duty
- 143T through 449T frame

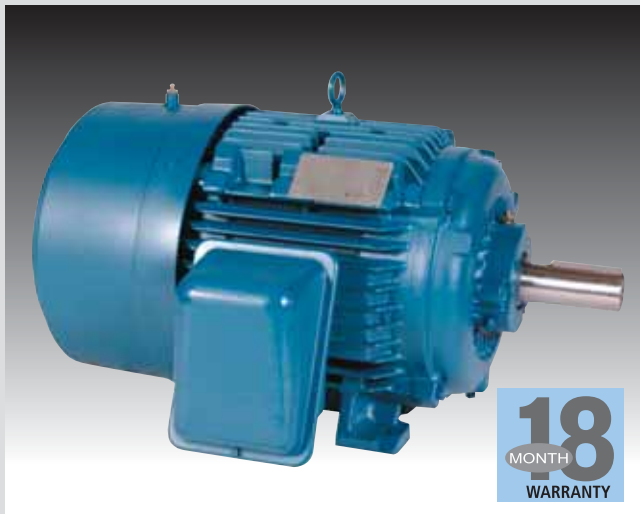


HIGH EFFICIENT • GENERAL PURPOSE • CAST IRON FRAME

nema
MOTORS

SIEMENS

RGZP TEFC Motors



Features for Long Life

Frame & End Shields – Cast iron construction (aluminum endshields 143T-256T frames) for exceptional structural integrity with condensation drain holes (143T-256T frames) or condensation T-drains (284T-449T frames). 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.

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 is 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 air flow, reduces noise and provides dependable cooling. Polycarbonate fan covers are provided on 143T up to 365T frames, and cast iron for frames 404T and larger.

Bearings – Regreasable, oversized single-shielded with cast iron inner caps (444T-449T frames), pipe plugs on both the inlet and relief ports (143T-256T frames). Alemite grease fittings on the inlets and pipe plugs on the relief ports (284T-449T frames) for ease of routine maintenance. For added bearing protection, 284T-449T frames are equipped with 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 – Larger than industry standards, diagonally split, neoprene-gasketed and rotatable in 90° increments for quick and easy connections. Leads are non-wicking and are clearly and permanently marked. Aluminum construction for frames 143T to 256T, steel for frames 284T to 405T and cast iron for 444T frames and larger.

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

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

Siemens Energy & Automation, Inc.
3333 Old Milton Parkway
Alpharetta, GA 30005

1-800-964-4114
info.sea@siemens.com
www.sea.siemens.com

Siemens Canada, Ltd.
2185 Derry Road West
Mississauga, ON L5N 7A6

905-819-5800
Customer Interaction Centre **888-303-3353**
www.siemens.ca

© 2006 Siemens Energy & Automation, Inc. All rights reserved.
Siemens is a registered trademark of Siemens AG. Product names mentioned may be trademarks or registered trademarks of their respective companies. Specifications subject to change without notice.

NMFL-00402-0106 New 5M0106M2 Printed in USA