

GP10A TEFC Motors



The new GP10A series of cast aluminum frame TEFC motors are ideal for material handling, pump, fan, compressor and other general purpose industrial applications. They feature bolt-on mounting feet and a rotating conduit box to enable the positioning of both in 90° increments around the diameter of the frame.

Performance Specifications

- 1 to 20 HP
- 1.15 service factor, 40°C ambient
- 3600, 1800, 1200 or 900 RPM
- 3 phase, 60 Hz; 208–230/460 and 575 volt operation
- Meets or exceeds EPC efficiency standards
- Class F insulation, Class B temperature rise @ 1.0 SF
- NEMA Design B, Continuous Duty
- 143T through 256T frame



nema MOTORS



SIEMENS

GP10A TEFC Motors



Features for a Long Life:

Frame & End Shields – Die cast aluminum construction for exceptional heat dissipation and structural integrity, equipped with bolt-on feet and condensation drain holes. Lifting provisions are included for frames 180T to 256T. Unique frame fin design maximizes cooling.

Rotor – A unique offset rotor bar design provides improved efficiency. Large cross section 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.

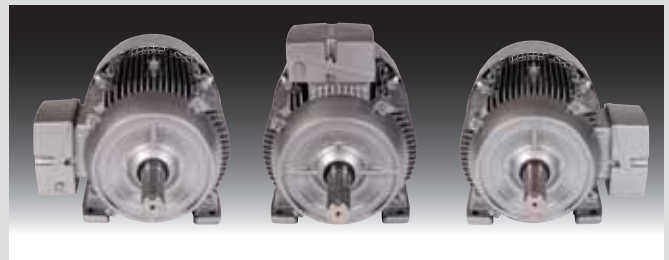
Stator/Windings – Manufactured with premium electrical-grade steel laminations and copper electrical magnet wire to lower losses for improved efficiencies. A unique stator core design lowers flux density while increasing cooling capacity. Large conductor cross section reduces resistance and lowers stator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

Insulation – Proprietary inverter-rated NEMA Class F non-hygroscopic insulation system with Class B temperature rise @ 1.0 SF 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 air flow, reduces noise and provides dependable cooling. Structural foam fan covers are provided on all frame sizes.

Bearings – Lubricated for life, oversized, complete with external bearing protection.

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 aluminum construction that is larger than industry standards, diagonally split and rotatable in 90° increments for quick and easy connections. Includes a ground lug and non-wicking, clearly and permanently marked leads.

Corrosion Resistance – Die cast aluminum construction, structural foam fan and fan cover, zinc-plated hardware, epoxy enamel paint and aluminum nameplate resist corrosion.

Modifiable – Siemens GP10A motors are available with a variety of modifications and kits.

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.