

## RGZVILESD

Vertical Solid Shaft, In-Line Thrust  
TEFC P-Base Motors



These motors are ideal for increasing energy savings in applications such as centrifugal and turbine pumps.

### Performance Specifications

- 3 to 250 HP
- 1.15 service factor, 40°C ambient
- Continuous thrust:
  - Up: 785 to 3,735 lbs.
  - Down: 735 to 1,550 lbs.
  - Radial: 930 to 2,140 lbs.
- 3600, 1800, or 1200 RPM
- 3 phase, 60 Hz; 230/460 volt operation under 25 HP, 460 volt 25 HP and above; 200 & 575 volt available
- Class F insulation, Class B temperature rise
- NEMA design B, continuous duty
- 182LP through 449LP frame



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MOTORS

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# RGZVILESD Vertical Solid Shaft, In-Line Thrust TEFC P-Base Motors



## Features for Long Life

**Frame & End Shields** – Vertical inline solid shaft severe duty motors feature a cast iron frame and end shields for exceptional structural integrity. A drive end T-drain, drip cover and lifting lugs are included.

**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 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, drive end is open ball bearing (182LP – 256LP frames), double-shielded ball bearing (284LP – 449LP frames); opposite drive end is a duplex angular contact thrust bearing (143LP – 449LP frames) with cast iron caps. Alemite grease fittings on the inlets, and pipe plugs on the relief ports for ease of routine maintenance. Thrust limits are based on an L10 life of 2 years.

**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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