Solid Shaft Motors Vertical A.C. Motors, High Thrust



Horsepower: 3 – 5000 HP **Speeds:** 3600 – 400 RPM

Design Voltages: 3 Phase/200-6900 Vac/50 or 60 Hz

Enclosures: Weather Protected Type I, Weather

Protected Type II, Totally Enclosed Fan Cooled, and Hazardous Location

Frame Sizes: 182-9608





Product Overview and Features

More than 100 years of vertical motor design experience ensures U.S. MOTORS® brand solid shaft high-thrust motors satisfy the requirements for water/wastewater treatment industry use. These motors are constructed of high quality materials and are manufactured in a state-of-the-art, ISO9000-2000 facility.

Product Features:

- Class F insulation, Class B rise at full load
- 1.15 Service Factor typical for WPI and WPII enclosures
- Service Factor typical for TEFC and hazardous location enclosures

Options:

Specific ambient temperatures



Vertical Solid Shaft High Thrust Motor

Upgrades

Inverter Duty – Premium efficiency coupled with an INVERTER GRADE® insulation system provide performance and reliability on sine wave or pulse-width modified variable frequency drive inverter power. The insulation system delivers superior pulse endurance to withstand waveform stresses produced by pulse width modulated drives.

- · Pulse resistant magnetic wire
- · Additional lacing on end turns

CORRO-DUTY® Motors – Additional features for harsh environments

- · Cast-iron construction
- Internal and external corrosion resistant treatments

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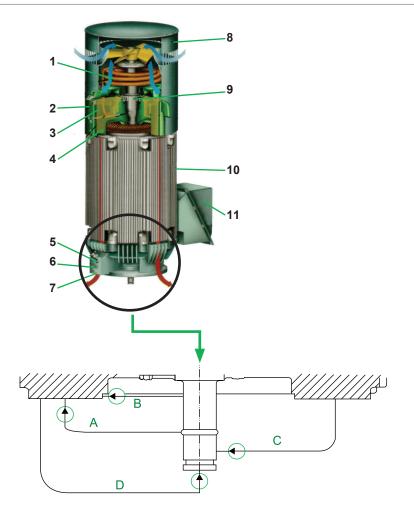
Product Overview and Options continued

Typical Solid Shaft Motor Construction:

- 1. Optional Cooling Coils
- 2. Bearing Temperature Probe Provision
- 3. Oil Sight Glass
- 4. Oversize Oil Sump
- 5. Oil Sight Glass
- 6. Bearing Temperature Probe Provision
- 7. Oil Drain
- 8. Heavy Steel or Cast Iron Fan Cover Guard
- 9. Precision Bearings (Multiple Options)
- 10. Rugged Cast Iron Frame, Brackets
- 11. Multiple Conduit Box Options

KEY

- A. Face Runout (0.001 in max tolerance)
- B. Register Runout (0.004 in max tolerance)
- C. Shaft Runout (0.001 in max tolerance)
- D. End Play (0.005 in max tolerance)

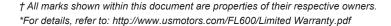


Enclosure and Warranty Information

Standard efficient – 12 month limited warranty from the date of installation or 18 months from the date of manufacture, whichever comes first.*

Energy efficient – 24 month limited warranty from the date of installation or 30 months from the date of manufacture, whichever comes first.*

Premium efficient – including Inverter Duty – 36 month limited warranty from the date of installation or 42 months from the date of manufacture, whichever comes first.*





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