

VERTICAL HOLLOW SHAFT WPI HIGH THRUST with "P" BASE - LOW VOLTAGE



AMRCNH, (MAX-VHP™) NEMA PREMIUM [VHP]*
AMRC, (MAX-VH™) HIGH EFFICIENCY [VH]*

Effective 03-24-17
Supersedes 06-14-15



APPLICATIONS:

- Deep Well Turbine Pumps
- Irrigation
- Fire Pumps*
- Fluid Handling Systems
- Water/ Waste Water

FEATURES:

- Output Range: 7.5 - 500 HP
- Speed: 1800 RPM
- Enclosure: Weather Protected Type I (WPI)
- Voltage: 230/460V (Usable on 208V); 150HP and Larger is 460V Only
- Three Phase, 60 Hz, 1.15 Service Factor (Continuous on Sine Wave Power)
- Inverter Duty (PWM) per NEMA® MG-1 Part 31 at 1.0 Service Factor
- New Dual Column (60/50 Hz) Design Nameplate as Standard; 50 Hz Data 190/380V at 1.0 S.F.
- Standard Features: Coupling w/ Gib Key, Ball Type NRR⁽²⁾, Drip/Splash Cover, Space Heaters (120V)
- Optional Capability for 175% High Thrust Requirement for 444 - 449TP Frames
- Motor Design Suitable to Handle 2 Stacked Bearings; Motors will Ship with 1 Bearing and 1 Spacer as Standard*
- Class F Insulation with Phenolic Alkyd Resin Varnish
- Class B Temperature Rise
- NEMA Design B Torques
- Oversized Main Conduit Box Rotatable in 90 Degree Increments - Fully Gasketed with NPT Threaded Entrance
- Cast Iron Conduit Box for F#449TP and Below; Steel Plate Conduit Box for F#5000
- Designed for 40°C Ambient Temperature⁽¹⁾
- Designed for 3300 ft. Elevation⁽²⁾
- Counterclockwise (CCW) Rotation; Viewed from Top
- Cast Iron Frame & End Brackets
- 1045 Hollow Carbon Steel Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction for F#449TP and Below
- Squirrel Cage Copper or Copper Alloy Bar Rotor Construction for F#5000
- Paint System: Phenolic Rust Proof Base Plus Polyurethane Top Coat
- Paint Color for AMRC (MAX-VH™): Dark Gray - Munsell 7.5B 3.5/0.5 (Existing Stock ONLY - See F.P. Statement)
- Paint Color for AMRCNH (MAX-VHP™): Blue - Munsell 5PB 3/8
- Guide Bearings: 213 - 286TP frames are Grease Pre-packed Double Shielded Bearings (MULTEMP SRL)
324TP - 5009P frames are Re-Greasable (Mobil Polyrex™ EM Grease)
- Thrust Bearings: 213 - 286TP frames are Re-Greasable Angular Contact (Mobil Polyrex™ EM Grease);
324 - 449TP frames are Oil Lubricated Angular Contact; F#5000 and Above with Spherical Roller
- Oil Sight Glass for 324TP Frames and Above
- Oil Requirements: 300 S.S.U. @100°F
- Grounding Terminal Inside Main Box
- Stainless Steel Nameplate and Rodent Screens
- 12 Leads (PWS on 230V) on 213 - 405TP;
6 Leads on 444TP to 449TP; 5000 Frames and Above with Connection Studs⁽³⁾
- Inverter Duty - 4:1 Variable Torque with NRR. 10:1 C.T., 20:1 VT without NRR Using Braking in VFD
- Precautions should be taken to eliminate or reduce shaft currents that may be imposed on the motor by the VFD as stated per NEMA MG1, Part 31.4.4.3 for AMRCNH (Part 30 on AMRC)

EXTRAS/ OPTIONS:

Please refer to pages 129 - 134 which show common modifications that can be performed.

Notes:

- * Fire Pump available. See product page for more details.
- (1) Consult a Stock Product Application Specialist for suitability in higher ambient environments.
- (2) Consult a Stock Product Application Specialist for suitability at higher elevations.
- (3) Suitable for Wye/Delta start at 230V or 460V.
- (4) Suitable for Wye/Delta start at 460V.