

MAX-VH™ FAMILY



TYPE: AMRC - P BASE HIGH THRUST EPACT LV

TYPE: AMRCNH - P BASE HIGH THRUST NEMA PREMIUM LV

Effective 06-14-15
Supersedes 05-01-13



APPLICATIONS:

- Deep Well Turbine Pumps
- Fluid Handling Systems

- Irrigation
- Water/ Waste Water

- Fire Pumps



FIRE SAFETY

FEATURES:

- 7.5 - 500 HP
- 1800 RPM
- High Thrust Vertical Hollow Shaft with P-base
- Weather Protected Type 1 (WPI) Enclosure
- Standard with Coupling and Gib Key
- Standard with Ball Type Non-Reverse Ratchet
- Standard with 120V Space Heaters in Main Lead Box
- AMRC meets or exceeds EPAct Efficiency Levels. AMRCNH is NEMA Premium Efficient.
- 36 Month Warranty from Date of Manufacture
- 60 Hz, 230/460 V; 460, 575V; 150 HP and Larger are 460V Only; 50 HZ, 190/380V data will also be on nameplate
- 1.15 Service Factor - Continuous on Sine Wave Power, 1.0 S.F. on Pulse Width Modulation (PWM)
- Class F Insulation with Phenolic Alkyd Resin Varnish - 2 Dips and Bakes
- Class B Temperature Rise
- NEMA Design B Torques for All Ratings
- Oversized Main Conduit Box Rotatable in 90 Degree Increments - Fully Gasketed with NPT Threaded Entrance
- Designed for 40°C Ambient Temperature - Note (1)
- Designed for 3300 ft. Elevation - Note (2)
- CCW Rotation when Viewed from Top
- Cast Iron Frame, End Brackets, and Main Conduit Box
- Fabricated Steel Drip Cover
- 1045 Hollow Carbon Steel Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction
- Paint System: Phenolic Rust Proof Base Plus Polyurethane Top Coat
- Paint Color: Blue Gray - Munsell 7.5BG 3.5/0.5
- Guide Bearings: 213TP - 286TP frames are Double Shielded
- Guide Bearings: 324TP - 449TP frames are Re-Greasable with Polyrex EM Grease
- Thrust Bearings: 213TP - 286TP frames are Re-Greasable Angular Contact with Polyrex EM Grease
- Thrust Bearings: 324TP - 449TP frames are Oil Lubricated Angular Contact with Site Glass
- Oil Requirements for 324TP-405TP - 145 to 175 S.S.U. @ 100°F
- Oil Requirements for 444TP-449TP - 300 S.S.U. @ 100°F
- Grounding Terminal Inside Main Box
- Stainless Steel Nameplate and Rodent Screens
- 9 Leads (PWS on 230V) on 210TP to 365TP; 12 Leads (PWS on 230V) on 404TP to 405TP; 6 Leads (PWS on 460V) on 444TP to 5810P
- 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)**

UL Fire Pump Features

- Complies with ANSI/UL 1004-5 "Fire Pump Motors." Certificate #20120717 - EX6569
- Available Option: Safety Red Epoxy Paint (Factory Modification #M18)

EXTRAS/ OPTIONS:

Please refer to the modifications document on our web site which show common modifications that can be performed.

Notes:

- (1) Please consult factory for suitability in higher ambients.
- (2) Please consult factory for suitability in higher elevations.
- (3) The MAX-VHP (AMRCNH) catalog items are NEMA Premium Efficient