

HTA SERIES



HIGH AMBIENT TEMPERATURE AND
HIGH ALTITUDE VERTICAL HOLLOW SHAFT SERIES

INTRODUCING BMR USA NEW 50 DEGREE AMBIENT "HTA" (HIGH TEMPERATURE AND HIGH ALTITUDE) SERIES

For the year 2016 BMR USA now has a 50 degree ambient rated Premium Efficiency VHS motor line designed for typical VHS applications and more importantly for conditions that require a more robust motor design to ensure long lasting performance. With the constant increase in ambient temperatures, a higher need for motor compatibility with VFD's, and with several motors being applied in high altitudes the BMR "HTA" series is the ideal motor for your needs.

HORSEPOWER RANGES: 10HP-1000HP

SPEEDS: 1800, 1200, 900 720, 600, 514 AVAILABLE

**DESIGN VOLTAGES: THREE PHASE 208, 230/460V/2300V/4160V AT 60 HTZ
THREE PHASE 190V/380V/400V/415V/600V AT 50 HTZ**

ENCLOSURES: WEATHER PROTECTED 1 (WPI), TEFC

EFFICIENCY LEVELS: PREMIUM

APPLICATIONS:

- Waste Water Plants
- Municipalities
- Mining
- Industrial Plants
- Agriculture
- High Altitudes
- Areas with high temperatures

MECHANICAL FEATURES:

- Proven Frame Design
- Cast Iron Construction
- Hi-Thrust Design
- Precision Balancing
- Ball Type Non Reverse Ratchet
- Coupling included in Price for all HP's
- Oversized Angular Contact Bearing and Guide Bearing
- Large Oil Reservoir

ELECTRICAL FEATURES:

- Premium Efficiency
- Class "H" Insulation System
- 50 Degree Ambient Rated
- Class B Temp Rise at 1.0 S.F (Sine Power)
- Inverter Rated 10:1 (Variable Torque)
- Double VPI Impregnation
- Premium Grade Lamination Steel
- 120V Space Heaters

STANDARD CONVENIENCE FEATURES:

- Handle Grip Oil Plug
- Twist Spigot Oil Drain
- P Base Bolts Easily without removing Rodent Screens
- Easy to Read Labels and Connection Data

INCLUDED PREMIUM FEATURES FOR 400TP FRAMES AND ABOVE

- Ceramic Coated Upper Bearing Mount
- Guide Bearing Protection Ring
- Double Stack Angular Contact Bearings for 175% EHT
- Thermocouples for in-field winding temperature measurements

INCLUDED PREMIUM FEATURES FOR 5800P FRAMES AND ABOVE

- Ceramic Coated Upper Bearing Mount
- Guide Bearing Protection Ring
- Winding RTD's 100ohm Platinum
- Air Ducts in the Stator and Rotor for superior cooling
- Double Stack Angular Contact Bearings for 175% EHT
- Spherical Roller Bearing with copper cooling tubes for 300% EHT
- Thermocouples for in-field winding temperature measurements

*Please consult with BMR Engineering support for all applications having ambient temperatures exceeding 50 degree C and elevations over 5000 feet in elevation.

