



**AURORA MOTORS**

## TEFC Vertical Pump Motors

AVAILABLE WITH HOLLOW OR SOLID SHAFT

<b>Horsepower</b>	7.5-300 hp
<b>Speeds</b>	4-8 Pole
<b>Design Voltages</b>	Three Phase/208-4160V/50 or 60Hz
<b>Enclosures</b>	Totally Enclosed Fan Cooled (IP44-IP55)
<b>Efficiency Levels</b>	NEMA Premium

### Innovation and Quality

Aurora Totally Enclosed Fan Cooled (TEFC) Vertical Pump Motors are rapidly becoming one of the most recognized brands in the industry. Our robust inverter-duty motors perform under the most strenuous and extreme conditions and are built from the highest quality materials. Innovation and quality have always been among our top priorities and why we have made major strides in all sectors of the VHS market.

### State-of-the-Art Facilities

Because we own our dedicated development and manufacturing facility, as well as through our joint partnerships, we can tailor our motors to our customers' specific requirements up to 50,000 hp. We also manufacture high-end WP1 Vertical Hollow Shaft (VHS) motors, as well as many industrial products.

- **Highest quality**
- **One of the largest stocks in North America**
- **Competitive pricing, highest value**
- **One of the only dedicated VHS motor manufacturing facilities in the world**
- **Distributors in over 15 countries and growing**
- **Inverter-duty motor and control packages available**
- **OEM custom and private label programs available**

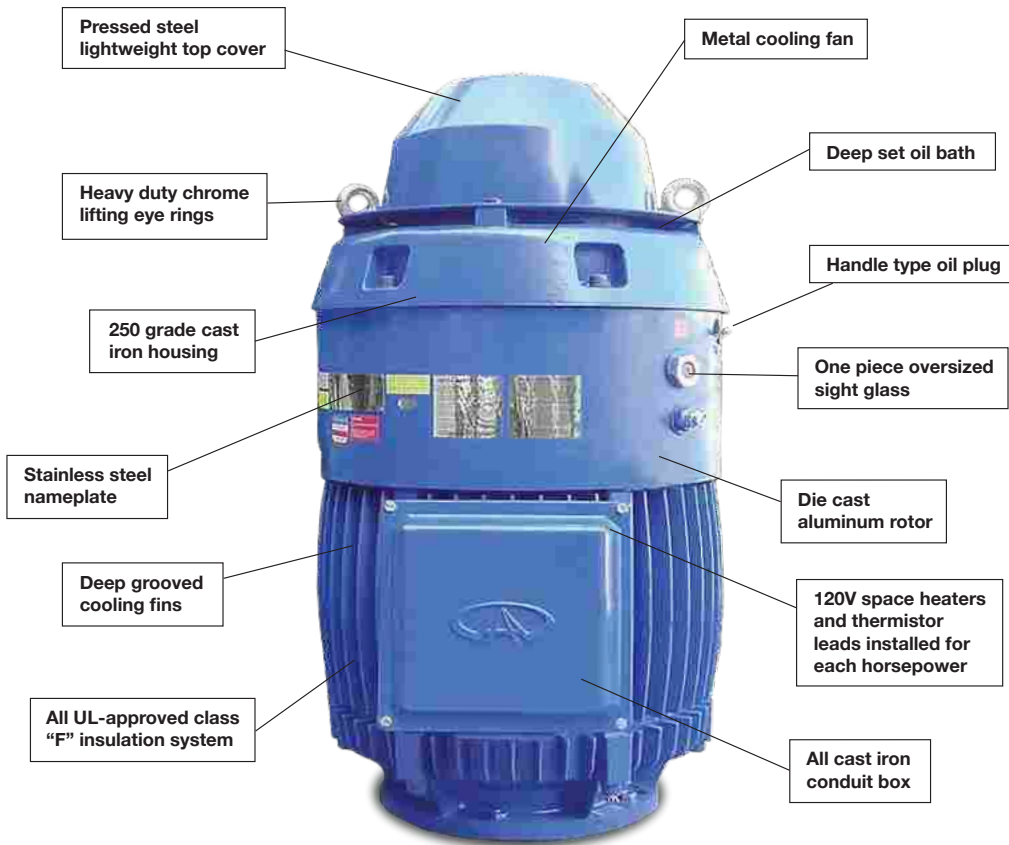




## Design Overview

Our insulation system has been designed to withstand a wide range of environmental conditions, thermal shock, and voltage stress. The system is composed of all UL and inverter-duty copper wire. For maximum winding protection, we use a double VPI treatment with a non-water-absorbent epoxy varnish. Plus, to maintain optimum performance and further protect the winding system in motors used in coastal areas, mining applications, and in locations with high humidity or hazardous particles, we apply a tropicalization varnish.

**NOTE:** Aurora vertical hollow shaft motors are all MG-1 Part 31 Spec (Inverter-Duty Rated).



### INDUSTRIES SERVED

- Water and waste water
- Agriculture
- Municipalities
- Mining
- Well drilling

### PRODUCT OPTIONS

- Solid shaft
- 1200 RPM, 1800 RPM, Custom RPM
- Vibration switch
- Double stack angular contact for 175% EHT
- Insulated bearings and shaft ground provisions
- Bearing and winding RTDs
- Steady bushings

### EXTERNAL PRODUCT FEATURES

- Cast iron frames
- One-piece oversized sight glass
- Oversized conduit box
- Stainless steel nameplate with lead connection data
- Operations manual
- Deep channeled cooling fins
- Handle grip oil plug

### INTERNAL PRODUCT FEATURES

- 12-ball (ball-type) non-reverse ratchet
- Die-cast aluminum rotor
- Class F temp rise at 1.15 S.F.
- Class "B" insulation
- Oil bath for upper bearings 40 hp-200 hp
- Double VPI treatment
- Tropicalization treatment

One of the largest in-stock VHS motor locations in the United States and Canada.  
Now accepting new representatives, distributors, and OEM partnerships worldwide.