

## TEFC Vertical Pump Motors

AVAILABLE WITH HOLLOW OR SOLID SHAFT

Horsepower	7.5-1000 hp
Speeds	900-1800 RPM
Design Voltages	Three Phase/208-4160V/50 or 60Hz
Enclosures	Totally Enclosed Fan Cooled
Efficiency Levels	NEMA Premium, High, and Standard Efficiency

### Innovation and Quality

Aurora Totally Enclosed Fan Cooled (TEFC) Vertical Pump Motors are rapidly becoming the most recognized brand 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 state-of-the-art manufacturing facilities, 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
- Largest stock in North America
- Competitive pricing, high value
- Largest dedicated VHS motor manufacturing facility in the world
- Distributors in the USA and Canada
- Inverter-duty motor and control packages available
- OEM custom and private label programs available

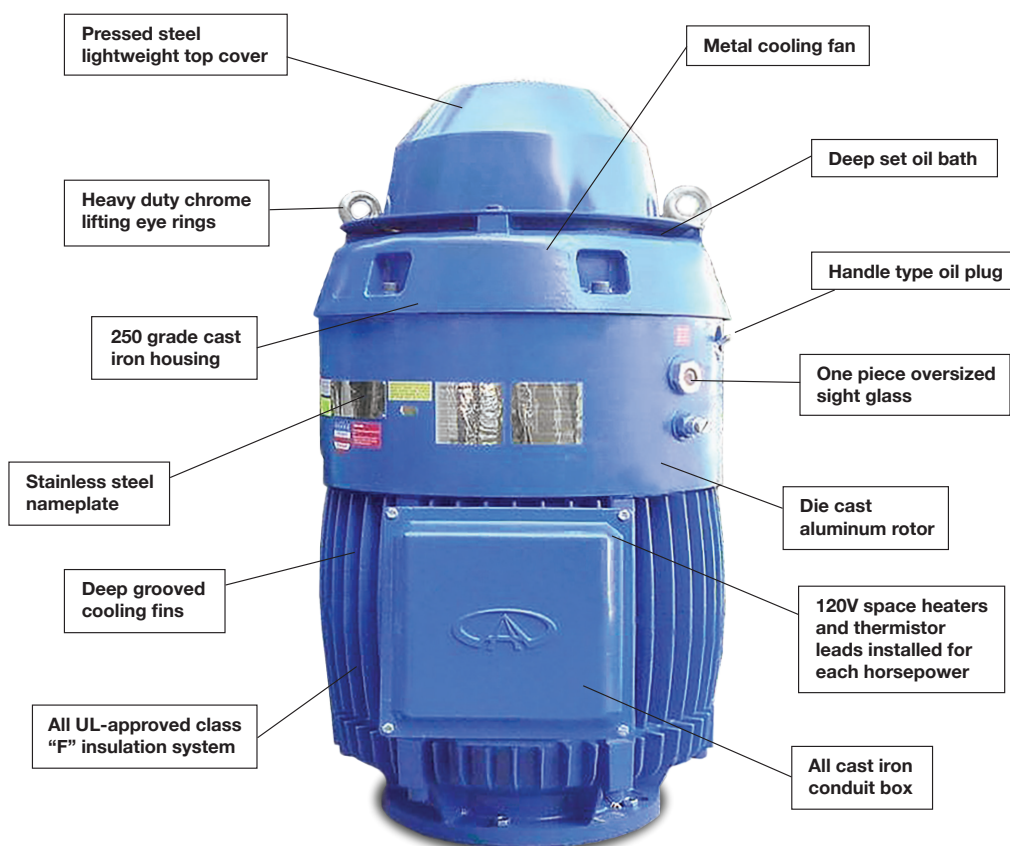




## Design Overview

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) and are capable of running between 10Hz-90Hz.



### INDUSTRIES SERVED

- Water and waste water
- Agriculture
- Municipalities
- Mining
- Pulp and paper mills
- 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
- Stainless steel rodent screens
- 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 B temp rise at 1.15 S.F.
- Class "F" insulation
- Oil bath for upper bearings 40 hp-200 hp
- Double VPI treatment
- Tropicalization treatment

Largest in-stock motor locations up to 250 hp in the United States and Canada  
Now accepting new representatives, distributors, and OEM partnerships



**AURORA-MOTORS.COM** 2031 American Avenue Hayward, California 94545  
telephone: (510) 264-1318 fax: (510) 264-1317 email: [sales@aurora-motors.com](mailto:sales@aurora-motors.com)