



AURORA MOTORS

5800 Series Frames

WP1 Vertical Pump Motors

AVAILABLE WITH HOLLOW OR SOLID SHAFT

Horsepower	300-1000 hp
Speeds	900-1800 RPM
Design Voltages	Three Phase/460-4160 Volts, 50 or 60 Hz
Enclosures	Weather Protected Type I
Efficiency Levels	NEMA Premium, High, and Standard Efficiency

Design Overview

Aurora Motors integrates proven design with leading-edge technology and materials to manufacture the highest quality vertical hollow shaft and solid shaft motors on the market. Our motor configurations and materials are standardized so we are able to provide our customers with premium products designed to meet their unique demands. Extremely low vibration levels, high thrust, and low temperature rise are just a few of the characteristics that set our motors apart.

High Thrust Capacity

5800 series frames have two options that ensure the motors will handle your thrust load requirements. To maintain a 175% extra high thrust capacity, you can choose a twin set of 73288 40-degree angular contact bearings. Or, to reach 300% extra high thrust, you can select a large 29430 thrust spherical roller bearing with a water cooling system in the upper bracket. Also available in TEFC (totally enclosed fan cooled) enclosures.

Space Heaters and Thermistors

All vertical hollow shaft motors come standard with 120V space heaters to help keep moisture and condensation from damaging the winding when the motor isn't in operation. Positive Temperature Coefficient (PTC) thermistor leads also detect rising temperatures that may damage the motor.



AURORA MOTORS

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Inverter Duty Insulation System

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.

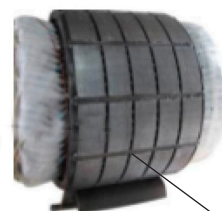
1250 hp – 50,000 hp Option

Through our joint partnerships, we can design and build the world's largest motors, including 2.0 megawatt wind turbines. We offer premium quality, medium and high voltage electric motors for worldwide distribution. Product options include:

- Solid shaft
- 900 RPM
- 1200 RPM
- Vibration switch
- Spherical roller thrust bearing with cooling tubes
- Insulated bearings and shaft grounding provisions
- Bearing and winding RTDs



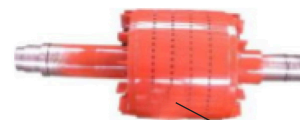
AURORA 5800 SERIES: TAKE A CLOSER LOOK



We use premium grade, low loss electrical steel and have designed our stator core with a proprietary cut air-duct design. When temperatures reach 100 degrees or higher, you need a motor that is built to maximize cooling.



All 5800 series frames are built from 250 grade heavy duty cast iron to maximize long-term durability in even the most arduous conditions.



To maximize motor cooling and air flow, we manufacture an all die cast aluminum rotor that has a proprietary cut air duct design to complement the stator.

Largest in-stock motor locations up to 700 hp in the United States and Canada
Now accepting new representatives, distributors, and OEM partnerships



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