



# AURORA MOTORS

## Vertical Fire 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	Weather Protected Type I, TEFC available
Efficiency Levels	NEMA Premium

### Reliability You Can Count On

The Aurora Vertical Fire Pump Motor line extends our leading-edge vertical motor technology to fire protection. Our robust, UL-certified fire pump motors meet the industry's demanding safety requirements, including NFPA20. Built from the highest-quality materials, they perform under the most strenuous and extreme conditions at the highest efficiency levels, guaranteeing they are ready to go when needed. Innovation and quality remain among our top priorities, and this investment to broaden our vertical motor offerings is the latest in that critical endeavor. With a depth and breadth of experience and commitment to precise engineering, we can tailor our fire pump motors to your specifications.

#### External Product Features

- All cast-iron frames from 213TP to 5810
- Stainless-steel vents and screens
- Oversized and cast-iron conduit boxes up to 449TP frames
- Cast-iron top cover up to 30 hp
- Steel top covers, 30 hp to 1,000 hp
- Robust 5800 frames, 300 hp to 1,000 hp

#### Internal Product Features

- Forged ball-type non-reverse ratchet
- Space heaters and thermistors
- Die-cast aluminum rotor
- Class B temp rise at 1.15 S.F.
- Class "F" insulation
- Double VPI and tropicalization treatment
- High thrust 175%, standard in 5800 frames





## Durable Fire Pump Motors from 7.5 hp to 1,000 hp

Our vertical hollow-shaft motors make up the most complete product family for the fire protection industry, with 27 UL-certified models from 7.5 hp to 1,000 hp. NEMA Premium efficiency Aurora Vertical Fire Pump Motors run quietly with low starting torque, high-breakdown torque, low vibration, and low temperature rise. They meet UL requirements in open, drip-proof enclosures designed for relatively clean and dry environments. You can rely on our high-end motors to provide long-lasting, trouble-free service under arduous conditions.

### STANDARD FEATURES

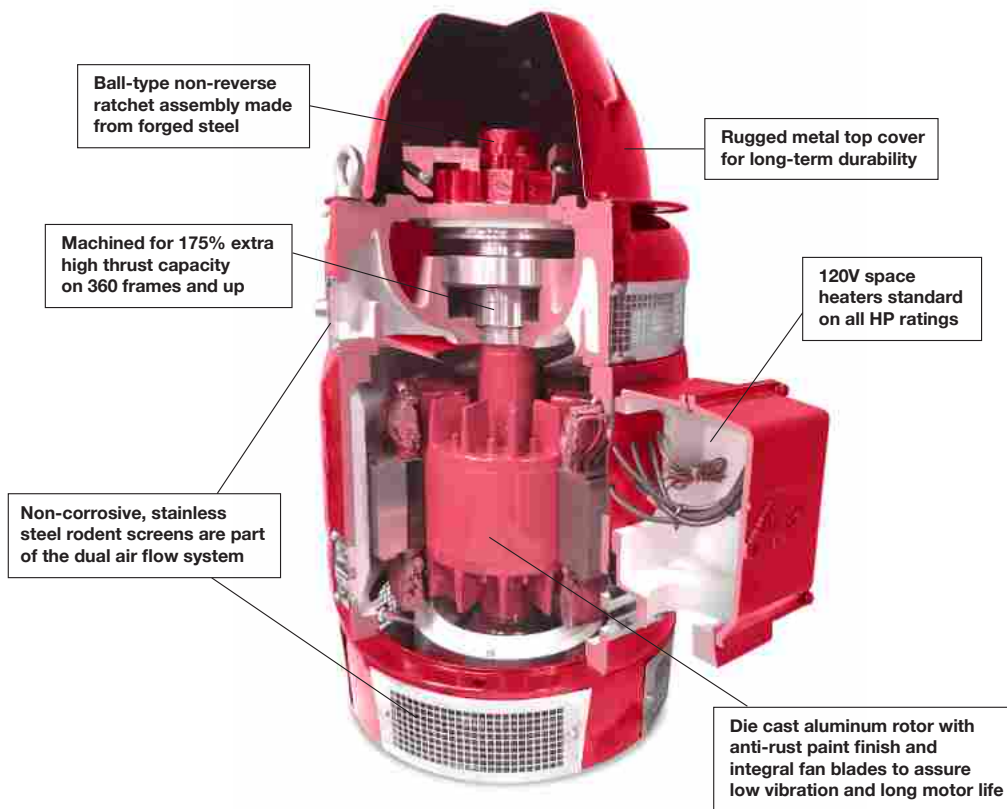
- Non-reverse ratchet
- Standard-sized couplings
- Thermistors
- Space heaters
- Steady bushings

### MOTOR OPTIONS

- Alternate bases
- Alternate couplings
- TEFC enclosure available
- 900 and 1200 RPM available
- Extra high thrust bearings
- Cast iron top hat available

### AURORA PREMIUM FEATURES

- P5 (aviation grade) angular contact thrust bearing
- Double VPI winding treatment (all horsepower)
- End turns capable of 2300V peak-to-peak



### Quality Construction

- UL Certified for both construction and efficiency levels
- UL Approved insulation system (NEMA MG-1 Part 31 Inverter Duty)
- Non-Hygroscopic epoxy varnish
- Dual air flow system

### Superior Durability

- Cast-iron construction
- Durable metal top cover
- Oversized conduit box
- Precision vibration tolerance as low as .02 velocity (IPS – Peak)

### Built-In Protection

- Positive Temperature Coefficient thermistors
- Space heaters
- Forged ball-type non-reverse ratchet
- Insulated Upper Thrust Bearings (an option)