

## T-Frame Motors

<b>Horsepower</b>	1-300 hp
<b>Speeds</b>	1200/1800/3600 RPM
<b>Design Voltages</b>	208-230/460V (380V available) / 60Hz (50Hz available)
<b>Enclosures</b>	Totally Enclosed Fan Cooled
<b>Efficiency Levels</b>	NEMA Premium Efficiency

### Latest Technologies, Highest Quality

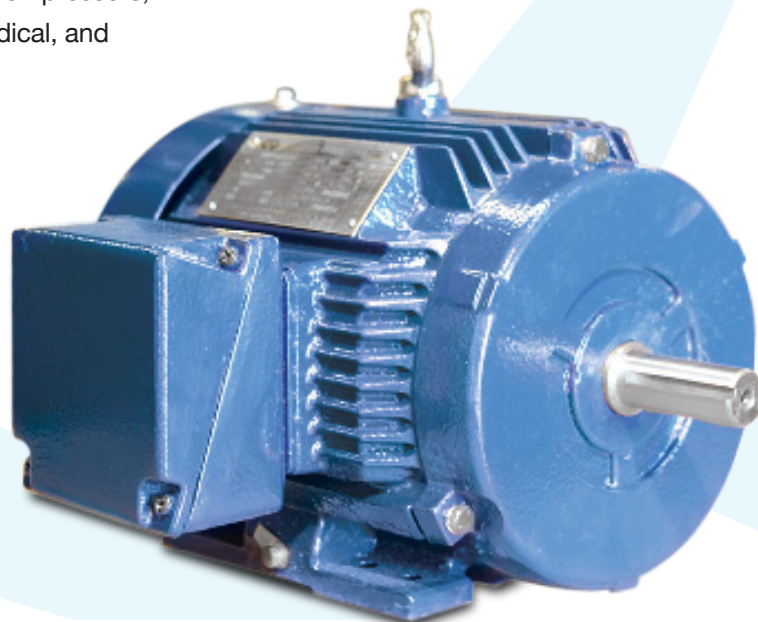
Aurora NEMA Premium Efficiency T-Frame Motors are three-phase induction, TEFC (Totally Enclosed Fan Cooled) squirrel-cage motors manufactured with the latest technologies. Our stator core is manufactured with high-quality laminated electrical steel. The high permeability and low loss of the steel enables Aurora T-Frame Motors to operate more efficiently.

### Wide Range of Applications

The low-noise, low-vibration design of Aurora T-Frame Motors features advanced cooling capabilities and makes them perfect for a variety of applications including compressors, ventilators, and pumps for petrochemical, medical, and mining environments.

### Product Features

- Frame sizes: 143T – 449T
- Class “F” insulation (Class H available)
- Ambient temperature: 40°C max
- VPI treatment
- Dynamically balanced rotor
- Low noise, low vibration bearing
- Steel or cast iron fan cover
- Laminated steel stator core
- Continuous Duty (S1)
- Rated frequency: 60Hz (50Hz available)
- Service factor: 1.15 or 1.0





## Motors Made with High Quality Materials

Aurora T-Frame Motor stator windings use Class F insulation with polyimide enamel round wire and VPI treatment to provide strong mechanical support, superior electrical insulation, moisture and contamination resistance, and uniform heat dissipation. The conduit box is made of cast iron with Standard NPT threads in the opening.

### Stator

- Laminated, high permeability, low-loss electrical steel to boost efficiency
- Class F insulation windings (Class H available)
- Polyimide enamel round wire
- VPI treatment
- Embedded thermistors

### Rotor

- Squirrel-cage type
- Cast aluminum alloy
- Dynamically balanced to reduce vibration

### Bearing and Lubrication

- Low-noise, low-vibration bearings
- Frame 210: bilaterally shielded ball bearings without replenishing grease
- Frame 250 and larger: open bearings with attachments to drain and replenish lubricating grease without stopping motor
- No. 3 lithium base grease
- Bearing design life is at least 40,000 hours at rated load

### Conduit Box

- Located on central side
- F1/F2 convertible
- Cast iron
- Grounding bolts and connection diagram inside
- Terminal blocks are available



### Fan and Fan Cover

- Fan available in plastic or cast iron
- Fan cover available in sheet metal or cast iron

### Sunshade

- Fan available in plastic or cast iron
- Fan cover available in sheet metal or cast iron



#### NEMA Premium Designation

We offer DOE Certified Premium Efficiency motors featuring optimized systems efficiency, reduced electrical power consumption and costs, and improved reliability as established by the National Electrical Manufacturers Association.



#### Canadian Standards Association

Aurora T-frame motors are certified for use in both Canada and the US according to applicable Canadian and US standards.



#### ISO 9001 Certification

Aurora Motor's quality management principles meet ISO 9001 standards. These principles include a strong customer focus, the motivation of our top management, our process approach, and our dedication to continual improvement.



#### EASA Member

Aurora Motors is an associate member of the Electrical Apparatus Service Association, Inc. (EASA), an international trade organization of nearly 1,800 electromechanical sales and service firms.



**AURORA MOTORS**

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