



## About NTX Embedded

### Your Partner in Motors & Control systems

NTX Embedded is a global leader in designing and manufacturing innovative motors, and control systems tailored to meet diverse industrial needs, combining advanced technology with precision engineering to deliver reliable, high-performance solutions customized to ensure seamless integration and exceptional user satisfaction.

## Industrial BLDC Motors



Our highly efficient 3- $\Phi$  BLDC motors are designed to meet IE3 premium efficiency standards and rated for continuous duty. Built for demanding applications such as HVAC blowers, commercial ovens, and datacenters, our motors are packed with ultimate-reliability features such as low-noise bearings, high-temperature grease and IP54 environmental ratings. With an aluminum housing and stainless steel shaft, they are fully armored for tough environments.

- Compact & Efficient**  
High power density design optimized for space-constrained environments without compromise
- Safety**  
Independent thermal protection on all three phases from maximum safety
- Rugged Durability**  
Designed and built to withstand real-world challenges of time, temperature, and loads
- Energy Efficiency**  
Optimized for advanced FOC control algorithms
- High-Speed Performance**  
Smooth operation up to 7000 RPM

### Key Specifications

Power Range	250 & 375W* (1/3 & 1/2 HP)
Operating Voltage	208-240V
Insulation Class	Type F (155 °C)
Efficiency	>88% peak
Ambient Operation	50 °C
Speed Range	700 – 7,000 RPM
Environmental	IP54
Frame Depth	50.3 mm

\*Relevant standards: IEC60034-1, IEC60034-30, IEC60034-34, IEC60068-2-78, IEC Grade A, NEMA MG1, ISO21940-11, UL1004-1, UL1004-3

\* 550W & 750W coming soon



# Motor Controllers

Built for Performance

## Single and Dual Motor Controllers

### Power & Precision

NTX Embedded's motor controllers are designed for demanding operation while providing precision control. With two options to choose from, a single motor and dual motor, system architecture and cost optimization are within your control.



**X Precise RPM Control**  
Digitally controlled speeds for fine-tuned performance

**X Easy Monitoring**  
Digital real-time status monitoring for guide reference

**X Durable Design**  
Built for harsh environments with vibration resistance

### Control

- Control Methodology Sinusoid(FOC)
- Speed Range 700 - 7,000 RPM

### I/O & Communication

- Input Voltage 90-240V
- Output Power 1.5kW max
- Speed Control 0-10V, RS485
- Diagnostic On-Board, RS485

### Dimensions

- Single 5.48" x 4.85" x 3.0"
- Dual 4.65" x 4.65" x 3.0"

### Telemetry Information

- Motor Speed
- Voltage
- Current
- Temperature

### Agency

- UL 60730-1 / CSA E60730-1

## NTX Advantage

NTX Embedded delivers integrated motor and controller solutions with advance manufacturing and expert support for industrial applications.

- **Seamless Integration:** Created to work together for optimal performance and reliability
- **Tailored Precision:** Design and manufacture custom blower wheel and mounting solutions
- **Exceptional durability:** Ensure rigorous quality assurance for trouble-free and long-lasting operation



**NTX Embedded**

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Contact Us Today

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