Powering the Digital Future
High-Performance Motor Solutions for Data Centers

Reliable. Efficient. Built by U.S. for Mission-Critical Applications.

Having Top Quality Motors is Critical for Data Centers

The demand for data centers is surging, with global construction spending projected to exceed $35 billion by 2028. As hyperscale facilities and colocation centers expand, scalable, energy-efficient infrastructure is essential to support cloud computing, AI, and data storage.

At the core of every high-performing data center are electric motors, powering critical cooling systems and driving overall facility efficiencies. Without reliable, high-performance motors, facilities face higher energy costs, increased downtime, and potential operational failures.

Key Challenges for Data Centers

Energy Costs
Cooling & power distribution = 40% of data centers' energy use

Reliability
Downtime can cost millions in lost revenue

Sustainability
Data center represents 2% of the total United States electricity consumption

Scan to learn more about our complete motor portfolio

Innovation For the Future

High-Efficiency Motor Solutions from U.S. MOTORS®

Reduce Power Consumption, Lower Costs, and Improve Sustainability

SynRA™ – IE4 & IE5 Efficiency

- The performance of permanent magnet motors with the simplicity and service-friendliness of induction motors and the capability of operating with V/Hz drives
- Magnet-free design enables simple maintenance
- 40% lower energy losses compared to IE3 motors when both are operated on a VFD
- Increased reliability and prolonged motor life with lower winding and bearing temperatures
- No need for mechanical modification, a perfect solution for retrofits of induction motors

PRECISIONFLOW ™

- Up to 85% efficient, 30% better than common PSC motors
- Robust, integrated electronics with advanced thermal and overload protection
- Range of analog inputs and controls: (10-0V), (0-10V), and RS-485
- Advanced programming software reduces development and testing
- Horsepower: 1/3, 1/2, 3/4, 1 HP
- Voltage: 1Ø, 115/208 – 230 Volts
- Inputs: 0-10V, 10-0V, RS-485, or control via on-board or remote potentiometer

ID300 Fusion

- Highly reliable design:
  - Latest generation of electronic components for power and control
  - Robust mechanical construction
- Added value to your application:
  - Onboard PLC for real-time task automation programs
  - Module for fieldbus communication
  - Integrated pump application providing constant pressure regulation
- Exceptional product for universal use:
  - Designed as standard for industrial environments (IP55)
  - Compliant with latest energy efficiency standards
  - Certified product (CE, UL, Tüv, RoHS, etc.)
- Available models:
  - HP 1-10, Voltage 460V, Phase Input 3
  - HP 1-5, Voltage 230V, Phase Input 3
  - HP 1-2, Voltage 230V, Phase Input 1

Rely On U.S.

We Make Motors That Fit Your Needs

World Motor Cooling Tower Duty

- Speed Range: 20:1 (3-60Hz) Variable Torque Speed Range
- Enclosure: Totally Enclosed Air Over (TEAO), Totally Enclosed Fan Cooled (TEFC)
- Double Dip & Bake, Polyester Insulation on Windings with Dolph protective treatment
- Double Sealed Bearings
- Meets IEC 34-5 Classification IP55
- Internal Aegis Shaft Grounding Ring

Horizontal & Vertical Fire Pumps

- 600 Volts or less
- UL listed up to 500 HP inverter duty
- Motors designated for Canada meet CSA-390 Table 2 efficiency values
- Stock product available for quick ship

Inverter Duty

- For use on applications powered by variable frequency drives
- Up to 200 HP (TEFC), 400 HP (ODP)
- Inverter Duty, Exceeds NEMA MG1-Part 31
- Insulife 2000 – double dip and brake with 100% solids polyester varnish
- Extra slot, cell, phase insulation, and end turn bracing

Your Trusted Partner for Data Center Motor Solutions

Let's Talk About Your Data Center Needs

U.S. MOTORS provides tailored solutions to optimize efficiency, reliability, and sustainability for all your application needs

Engineering Expertise in Custom Motor Design

Engineering-to-Order Capabilities

- Our broad product offering provides stock motors for most applications.
- NEMA frame and above-NEMA frame (TITAN® brand) products are available as engineer-to-order motors.
- Production facilities in Mena, Arkansas and Monterrey, Mexico for dependable logistics and quality control.

24-hour quoting! Industry-leading Lead-times!

Why Choose U.S. MOTORS®

Reliability You Can Trust

Engineered for continuous uptime under demanding conditions.

Industry Leading Energy Efficiency

IE4 and IE5 motors help cut power costs and improve PUE.

Cutting-Edge Technology

Designed for optimal performance with minimal maintenance, fully compatible with VFDs, PLCs, and smart monitoring systems.

Global Support & Quick Availability

Global service team ready to assist with installation & optimization. Seamless replacements with robust eBusiness tools.

Elevate your data center's reliability and efficiency with U.S. MOTORS' cutting-edge motor solutions. Because in the world of data, every second counts.

Visit http://ecatalog.motorboss.com/ for:

- Competitive cross reference tools
- More than 50,000 cross references by competitor or OEM catalog and model numbers.
- eCatalog search tool (search by ID, features or applications)
- Dimension prints
- Nameplate data
- 3D models
- Performance data
- Wiring diagrams
- Installation and maintenance manuals

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