

THE RIGHT MOTOR FOR YOUR APPLICATION NEEDS

- Fans
- Blowers
- Data centers
- Pumps
- Compressors
- Refineries
- Machinery
- General industrial
- Conveyors
- Escalators



READY FOR THE FUTURE

Understanding upcoming government regulations is at the forefront for Marathon® Motors. We know that our customers need to not only meet these standards but also continue to innovate with the most energy efficient products that create less noise and are environmentally friendly. Since motors are often the source of power consumption and acoustic noise, we are committed to providing you with the best solution to meet or exceed these standards.



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APPLICATION CONSIDERATIONS
 The proper selection and application of electric motors and power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.
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NOVATORQUE®, ULTEMAX™ & SYMAX®

WE'VE GOT THE RIGHT MOTOR FOR YOUR APPLICATION

For over 100 years, Marathon® Motors has developed a reputation as being an innovative leader in motor design for a vast array of commercial and industrial applications all around the world.

Our engineering design team continues to research and develop cutting-edge solutions to bring you increased energy efficiency, reliability and lower system operating costs.



NOVATORQUE® EC PERMANENT MAGNET MOTOR

NovaTorque® motor's innovative conical rotor/stator geometry produces rare-earth-like motor performance using inexpensive, readily available, ferrite magnets. It is a whole new class of electric motor that provides the performance of a permanent magnet motor at a cost more similar to premium induction motors.

The NovaTorque motor offers a substantially superior energy efficiency over a broad operating range and at low speeds as well as greater power density and cooler operation.



FEATURES

- 3, 5, 7.5 and 10 hp @1800 rpm: 94 to 95+% efficient
- Nameplate speeds from 600 to 3600 rpm, including 2400 RPM
- 230 to 575 volts
- Speed and voltage can be optimized for specific applications
- Unique conical airgap design with low-cost ferrite magnets
- Conforms to NEMA® & IEC mounting standards
- UL Recognized, CE Mark
- IP54 Ingress protection

BENEFITS

- Greater than 40% reduction in motor losses vs. AC induction motors
- Rapid payback-typically less than 18 months
- Exceeds IE5 proposed standard
- Maintains high efficiency under partial load
- Lower operating temperature for higher reliability
- Superior low speed torque and excellent torque linearity
- Standard NEMA and IEC mounting for easy substitution

Try our Savings Calculator

<http://www.savings.novatorque.com>

When do you need the NovaTorque Motor?

SIZES: 180, 210 NEMA frame; 112, 132 IEC frame

APPLICATIONS: OEM HVAC and pumps, data centers, industrial, manufacturing, equipment, conveyors and more

YOU NEED: VFD, general purpose NEMA or IEC mounting and highest efficiency

NovaTorque®

Highest Efficiency

ULTEMAX™ INTEGRAL HORSEPOWER AXIAL MOTOR

UlteMAX™ motor is the new game-changing addition to the Marathon® Motors family.

Its hidden axial design and custom control offers an overall footprint reduction of at least 50% while MAXimizing output over a wide range of speed for air handling and ventilation applications.

UlteMAX motor's product profile enables flexible mounting options, on-site customization and future upgrades



FEATURES

- 3-Phase Input Power
 - › 230v/460v and 380v/400v/440v
 - › 60Hz/50Hz
- Flexible Mounting System – bolt dimensions available
- Circumferentially located controls
- Configurable from 3-15HP
- Meets Class A EMI requirements
- Built-in intelligence and electronic protection
- UL and CSA recognition
- Max speed is 5200 RPM
- UlteMAX motor meets and exceeds efficiency standards of equivalent Three Phase Induction Technology as per IEC 600034-30-1 and IEC 61800-5-2
- 10V output for Potentiometer speed setting
- IP54 and CE Mark

BENEFITS

- High efficiency over wide speed range
- Multiple I/O speed control options
- Thin, game-changing profile
- Horizontal and vertical orientation
- Approximately 1/2 weight of traditional induction motor
- Customer Configurable
- Innovative platform to reduce SKU's
- The most compact and integrated control available
- Modular electronics for upgrade and service
- Metric Mounting Features

When do you need the UlteMAX Motor?

APPLICATIONS: OEM air handling and fans

YOU NEED: Integrated drive, lower weight, high efficiency, form factor

UlteMAX™

Form Factor & Reduced Weight

SYMAX® INDUSTRIAL PMAC MOTOR

Looking for the next level of efficiency? SyMAX® PMAC motors deliver impressive energy savings by the elimination of rotor conductor losses, optimized ventilation design, precision-wound stator and variable speed operation. These Ultra Efficient™ motors exceed European IE4 efficiency levels and achieve efficiencies 25% over NEMA Premium® standards! Additionally the SyMAX efficiency profile remains flatter than an equivalent induction motor as the speed and load declines allowing the user to capture even greater energy savings when operated at the application's ideal speed.



FEATURES

- Meets or exceeds IE4 efficiency levels
- Wide speed range (up to 2000:1 constant torque)
- High torque per amp
- Comprehensive nameplate
- Interior Permanent Magnet design
- NEMA and IEC platforms available
- UL Recognized, CSA Certified, CE Mark
- High energy Neodymium magnets
- Robust cast iron construction
- Wide range of base speeds from 600-3600 rpm
- Class H Max Guard® insulation system
- IP54 ingress protection
- Up to 30 HP (22kW) in stock

BENEFITS

- Maximum flexibility, easier drive selection
- Longer service life, more uptime, higher reliability
- Suitable for the harshest environments
- Certified for use in Europe, full compliance with IEC60034 and IEC60072
- Maintains high operating efficiency throughout speed operating range
- Superior dynamic performance and speed/torque regulation
- Low noise and vibration to meet the most stringent industrial standards

When do you need the SyMAX motor?

SIZES: 182-286T (NEMA) or 112-180 (IEC), cast iron construction

APPLICATIONS: OEM, pumps, industrial, manufacturing, equipment, conveyors, oil refineries and more

YOU NEED: VFD, general purpose NEMA or IEC frame, drop-in replacement or power-dense design, proven track record

SyMAX®

Mission Critical Cast Iron