

What **if...**

your motor combined the ease of an integrated variable speed drive with high efficiency?

**marathon**<sup>®</sup>  
Motors



## **SYMAX<sup>®</sup>- i OPEN VENT MOTOR**

PERMANENT MAGNET MOTOR WITH INTEGRATED CONTROLS

The SyMAX-i motor has an integrated variable speed drive for ease of installation in your air distribution equipment. No extra steps are required to install or program a VFD while offering the motor efficiency advantage of permanent magnet technology.

**REGAL**<sup>®</sup>

# SYMAX<sup>®</sup>- i OPEN VENT MOTOR

## SPECIFICATIONS

- Fully variable brushless permanent magnet motor
- Ratings up to 3HP rated at 1750 RPM
- Suitable for belt drive and direct drive applications
- Available in either 230v or 460v
- Class F insulation system
- Integrated shaft grounding ring
- Speed control signal options: 0-10vDC, 4-20mA, or PWM
- Usable for horizontal or vertical orientations
- 40-degrees C ambient
- Remote mount tethered control options
- Double shaft extension capable
- 60/50Hz operation with no change in performance
- Electronically protected
- Industry convenient 56-Frame platform



Agency recognition: UL, CSA

## FEATURES

- Ground shaft ring integrated with SyMAX-i motor
- Permanent magnet motor provides better application efficiency
- Self ventilating design
- Soft ramp up to speed to promote longevity of system
- Drop in replacement for 56-Frame induction motors
- Compact size motor-control package
- Custom engineered mounting designs available
- Factory programmed and calibrated motor-control for optimized performance

## BENEFITS

- High efficiency over a wide operating speed range to maximize performance in full load or part load conditions
- Direct alternative to induction 56-Frame or 140-Frame induction motor to minimize design changes in current OEM equipment
- Low noise operation
- Soft start features minimum vibration and amperage inrush to promote equipment longevity
- Built-in factory-programmed electronic drive eliminates the need for wiring in equipment
- Eliminates the need to provide space and mount an external VFD

**RECOMMENDED FOR ROOFTOP AIR DISTRIBUTION, AIR HANDLERS,  
FAN & BLOWER, AND OTHER VENTILATION APPLICATIONS**

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## APPLICATION CONSIDERATIONS

The proper selection and application of 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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