



For Immediate Release

MEDIA
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Regal Debuts Its Highest-efficiency Motor at EASA 2017

The NovaMAX™ motor offers substantially superior energy efficiency over a broad operating range and at low speeds

BELOIT, WI, June 19, 2017 — Regal Beloit Corporation, a leading manufacturer of electric motors, electrical motion controls, power generation and power transmission components, announced it will debut its most energy-efficient motor in NEMA Premium® frame sizes at the 2017 EASA Convention in Tampa, Fla. NovaMAX motors are ultra-efficient, electronically commutated permanent magnet motors.

Permanent magnet motors are more efficient than induction motors primarily due to the magnetic field in the rotor being produced by permanent magnets rather than being induced electrically.

“Unlike induction motors, permanent magnet motors maintain their high efficiency over a broad operating range, which is ideal for variable speed applications,” said Howard Richardson, business leader, Regal Beloit.

NovaMAX motors are packaged in standard NEMA frame sizes and mounting dimensions enabling simple substitution in retrofit applications. Available in frame sizes from 48 to 280, the NovaMAX motors are compatible with readily available variable frequency drives (VFDs) from most leading manufacturers. They are a simple, cost-effective means to meet current and future higher systems-based regulatory efficiency standards.

“With a 5 to 20 percent reduction in electricity costs compared to NEMA Premium (IE3-level) induction motors, NovaMAX motors can deliver payback in 18 months or less with motor efficiency meeting and or in some cases exceeding IE4 and even the proposed IE5 efficiency standards,” said Joe Weber, PhD., product and operations leader, Regal Beloit.

NovaMAX motors also have a higher power density than AC induction motors.



“In many cases, this results in a motor with a lower frame size. With the higher efficiency of NovaMAX™ motors, you can also get lower current requirements and a significantly lower operating temperature,” said Kim Baker, applications engineering leader, Regal Beloit. “The cooler motor leads to higher reliability and a longer motor life as well as less heat emitted into the air stream, further reducing cooling costs for HVAC applications.”

NovaMAX motors have now been added to Marathon Motors’ line of permanent magnet motor solutions. These energy-efficient motors are designed for air handling, pump, data centers, conveyors, general industrial and other applications.

About Regal Beloit Corporation

Regal Beloit Corporation (NYSE: RBC) is a leading manufacturer of electric motors, electrical motion controls, power generation and power transmission products serving markets throughout the world. The company is comprised of three business segments: Commercial and Industrial Systems, Climate Solutions and Power Transmission Solutions. Regal is headquartered in Beloit, Wisconsin, and has manufacturing, sales and service facilities throughout the United States, Canada, Latin America, Europe and Asia. For more information, visit RegalBeloit.com

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Release No. MCWR17021E