PRESS RELEASE

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MEDIA
CONTACT: Jackie Catalano
Director, Branding and Marketing
Communications, Regal
jackie.catalano@regalbeloit.com
Tel: 859 727 5271

Regal to Debut Its Highest-efficiency Motor in European Configurations at HANNOVER MESSE 2017

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

BELOIT, WI, April 24, 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 European configurations with International Electrotechnical Commission (IEC) frame sizes at HANNOVER MESSE 2017. NovaTorque motor is a new ultra-efficient, electronically commutated permanent magnet motor.

The NovaTorque motor's innovative conical rotor/stator geometry produces rare-earth like motor performance using inexpensive, readily available ferrite magnets. A whole new class of electric motor, it provides the performance of a permanent magnet motor at a cost more similar to premium induction motors. The permanent magnet design of the NovaTorque motor is not only more efficient than permanent magnet motors on the market today, but more cost effective as well.

"The cost of rare earth magnet material, the basis of most conventional permanent magnet motors, has risen erratically over the last several years," said Howard Richardson, business leader, Regal Beloit. "By using ferrite magnets, NovaTorque motors offer a cost-effective solution for energy savings, enabling OEMs and HVAC systems builders to now deliver superior permanent magnet motor efficiency with modest first-cost impact and a rapid payback."

In addition to being cost-effective, the NovaTorque motor offers efficiency greater than IE5. The IEC efficiency classes for IEC line motors range from IE1 to the recently proposed IE5.

"With a 5 to 20 percent reduction in electricity costs compared to IE3-level induction motors, NovaTorque® motors can deliver payback in 18 months or less with motor efficiency exceeding IE4 and even the proposed IE5 efficiency standards," said Joe Weber, product and operations leader.

NovaTorque 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 NovaTorque motors, you can also get lower current requirements and a significantly lower operating temperature," said Kim Baker, applications engineering leader. "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."

NovaTorque motors for Europe are packaged in IEC frame sizes and mounting dimensions, enabling simple substitution in retrofit applications. In addition, NovaTorque 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.

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. MCWR17016E