

Portescap Launches Advanced Motion Controller for BLDC Motors

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Portescap proudly introduces its latest motion control solution, the [PCR 56/06 EC SD](#) – an integrated hardware and software package for single-axis control of brushless DC motors. Developed in partnership with [Performance Motion Devices, Inc. \(PMD\)](#), a leading motion control technology company headquartered in Boston, Massachusetts, this collaboration brings together industry-leading expertise to deliver a superior motion control solution across diverse applications.

The PCR 56/06 EC SD developer kit for BLDC control is fully compatible with Portescap's BLDC motor range, ensuring seamless and rapid integration. It features a user-friendly Windows-based software suite with autotuning capabilities, significantly reducing setup times from days to hours. Additionally, the system includes C-based command sets for flexible and reusable programming, minimizing engineering effort and fostering innovation. With a power supply of up to 56V and a continuous current capability of 5.5A, along with Hall sensor and encoder feedback options, the PCR 56/06 EC SD meets various application requirements with ease.

A standout feature of this solution is the module-only option, which allows the controller to be mounted directly onto the application's PCB. This facilitates a smooth transition from prototyping to series production, offering a cost-effective solution by leveraging initial development efforts.

Guillaume Mougin, Global Product Manager at Portescap, comments: "This motion control solution addresses our customers' need for faster development while offering a clear path from prototyping to full-scale production. By providing an integrated package tailored for our BLDC motors, we're helping customers accelerate their innovation while ensuring compatibility and simplicity."

The PCR 56/06 EC SD is well-suited for a wide range of markets, including Aerospace, Automation, Industrial Power Tools, Medical, and Robotics. Specific applications that will greatly benefit from this controller include bionics and exoskeleton systems, electric grippers, medical pipettes and lab automation, seat and valve actuation, and surgical robots.

Carlos Bielicki, Vice President of Sales and Marketing at Performance Motion Devices, stated: “With this advanced motion control kit enabling immediate evaluation and development using Portescap’s BLDC motors with PMD’s ION®/CME N-Series Digital Drive, customers now have a proven and optimized solution that minimizes risk and engineering time.”

This new offering underscores Portescap’s commitment to delivering a comprehensive suite of motion solutions that enhance productivity, simplify development, and ensure a seamless customer experience. Designed to accelerate the development process, the PCR 56/06 EC SD provides an innovative motion control system and the necessary tools to transition from prototype to production with ease.

For more information on the [PCR 56/06 EC SD](#) or our wider product portfolio, please visit www.portescap.com or email us directly at portescap.sales.america@regalrexnord.com.

Image captions:

Image 1: Portescap's new PCR 56/06 EC SD motion control solution, developed in partnership with Performance Motion Devices (PMD), is fully compatible with Portescap's BLDC motor range, ensuring seamless and rapid integration across diverse applications.

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About Portescap

Portescap offers the broadest miniature and specialty motor products in the industry, encompassing coreless brush DC, brushless DC, stepper can stack, gearheads, digital linear actuators, and disc magnet technologies. Portescap products have been serving diverse motion control needs in wide spectrum of medical and industrial applications, lifescience, instrumentation, automation, aerospace and commercial applications, for more than 70 years.

For more information, visit www.portescap.com

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