

Integrated Stepper Motion Technology Improves over 10 Years

Terryville, CT – Advanced Micro Controls Inc. (AMCI), just released a significant expansion of their SMD (stepper+motor+drive) product family that includes DLR topology, SynchroStep™ technology, IP67 rated versions, gearboxes, NEMA size 23 & 24 size packages, and compatible cord sets. This latest release provides a comprehensive and affordable solution for a variety of motion control applications. For over 10 years, AMCI has stayed ahead of the curve, engineering integrated motion technologies that fill a gap in the market like no other product. The company was one of the first to market an integrated stepper motor + drive (SMD) in 2004, and has continued expanding their line of integrated motion solutions. AMCI's SMD23E was introduced in 2012, adding a built-in controller that communicates with the host controller (PLC or PAC) via EtherNet/IP, Modbus, or Profibus and programs through the host controller's native software. AMCI added an optional IP67 rated version to its line of SMD products in 2013, providing superior protection against wash down environments such as food & beverage, industrial rinses, and other harsh conditions. This latest release is the biggest expansion since the introduction of the SMD product line in 2004, and greatly broadens its application footprint.

SynchroStep™

AMCI's SynchroStep technology enables coordinated motion control between the SMD Series integrated motor and Allen-Bradley servo systems. *"The new technology allows for multiple axes to be synchronized and geared to a master Virtual axis running on your PLC, filling a gap that currently exists in the industry for small, inexpensive synchronized motion solution offerings."*, explains Stanko Mantchev, AMCI Design Engineer. The SMD Series' unique approach to PLC-integration allows users to configure, program, and coordinate all axes of motion using the PLC's native software, eliminating the need to buy or learn new software.



Device Level Ring (DLR)

AMCI's SMD-Series integrated motion adds fault tolerant DLR topology and an embedded Ethernet switch, providing direct SMD-to-SMD cabling without the need for external switches. *"Customers have asked for an integrated solution that offers protection from water spray and eliminates the need for an external switch. Packages requiring an Ethernet switch with ~20 ports in the industrial world is both expensive and unavailable in an IP67 box. That is where the DLR solution was needed. – a cable that goes from device to device...a solution that provides both simple execution and robustness."* – Stanko Mantchev.

Compatible all with PLCs/PACs that support EtherNet/IP, Modbus-TCP, or Profibus, these cost-effective, integrated motion packages are ODVA conformance tested and interface with many PLCs including



those from Rockwell Automation, Siemens, Omron, and Schneider. DLR technology added to the SMD-Series provides real savings on installation and maintenance expenses.

Providing a Complete Solution

AMCI's SMD Series integrated motion offers a wide variety of options for exceptional performance across a range of applications. Options include NEMA size 23 or NEMA size 24 packages, IP67 rating, DLR, SynchroStep technology, encoders, gearboxes, and compatible cord sets. *"We don't want to be just a motor supplier, we want to provide a solution which is why we offer gearboxes and cord sets. We want our customers to be able to get everything they need from us and not worry about where to source other components that make up a complete package."* – Matt Tellier, AMCI Motion Control Product Manager.

About Advanced Micro Controls Inc.

Founded in 1985, Advanced Micro Controls, Inc. (AMCI) is a leading U.S. based manufacturer with a global presence. AMCI industrial control products improve PLC-based automation systems with specialized position sensing and motion control technology that simplifies automation and adds reliability to manufacturing processes. AMCI designs and manufactures all of their products, enabling superior quality and innovation. The company provides 24/7 technical support staff, ready to answer questions about installation, configuration and operation of all AMCI products.

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