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Control Techniques Announces New Servo Drive

Control Techniques, part of the Nidec group of companies, has revealed its new generation of advanced servo drive technologies

The new Digitax HD servo series delivers ultimate motor control performance and flexibility, from a uniquely compact package. Targeting high axis count automation systems, Digitax HD provides all of the benefits of a modular system with a common DC bus, with standalone drive flexibility. The drives wide power range provides 6.2 – 451.4 lb-in (0.7 – 51 Nm) with 3x peak torque / 1.5 A – 16 A and 48 A peak)

The new series is focused on high overload, pulse duty applications but also provides continuous servo control, plus induction motor control, and is initially available with two functionality levels. The new range is scheduled for US launch on October 15 at Pack Expo.

Digitax M753 is designed as an optimized amplifier for high performance centralized control with EtherCAT integrated on-board and simple rotary switches for fast network address assignment. Alternatively, the flexible Digitax M751 Base option allows design engineers to add up to two option modules from the existing Unidrive M range such as PROFINET, Ethernet/IP or an IEC61131 high performance motion controller for decentralized machine control.

Minimum size

For both single and multi-axis configurations, the Digitax HD series offers industry-leading compactness – the M753 EtherCAT variant is just 1.6 inch (40 mm) wide – that is 5 axes across the width of a piece of paper or 7 axes across if you turn it to landscape. The drive is also designed to fit within 8 inch deep (200 mm) enclosures.

Digitax HD is the most compact 400V servo drive available in the world

Its patented Ultraflow™ system allows machine builders to further reduce cabinet size by up to 50% through expelling heat from the drive directly outside the enclosure. This approach offers the further benefit of enabling drives to be stacked without the need for a large air channel between them.

Maximum performance

High dynamic applications will benefit immensely from Digitax HD's 300% peak performance pulse-duty overload capabilities, along with its 62 µs current loop and 16 kHz switching frequency. Its flexible speed and position feedback interface supports a wide range of feedback technologies, from robust resolvers to the latest single cable digital encoder technologies.

Quick and easy installation

Digitax HD boasts a wealth of features and accessories designed to make installation and commissioning as easy as possible. Features include easy-access pluggable connectors and a dedicated multi-axis paralleling kit for rapid installation; integrated braking resistor and electronic motor name plate for faster setup; and



quick commissioning using the Unidrive M Connect PC tool, or an optional SD card. Machine Control Studio provides a flexible and intuitive IEC61131 environment for programming automation and motion control features.

Flexibility

The Digitax HD servo series flexibly adapts to your architecture of choice, be it centralized motion control, distributed intelligence, or any combination of the two. **Support for all main industrial field-buses guarantees easy integration into any production line.**

Complementary motor line-up

Working in tandem with the Digitax HD series, delivering class-leading performance. With a wide torque range, up to 750 lb-in (85 Nm) with 3x peak, rated speeds from 1,000 to 6,000 rpm, several inertia levels and a broad selection of feedback options, Unimotor hd offers the perfect fit for high dynamic applications.

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Control Techniques, a Nidec company, is a world leader in the design and production of electronic variable speed drives for the control of electric motors. Founded in 1973, the company has locations around the world. It has dedicated production and R&D sites globally, along with Automation Centers in 45 locations around the world.

Nidec, also founded in 1973, started out as a company developing and manufacturing small precision motors but has since branched off into other markets including motors of various sizes and peripheral equipment such as drives. With more than 300 subsidiaries employing over 100,000 people throughout the world and with annual sales exceeding \$13B, the Nidec group has grown into a world-leading manufacturer with products that are found in a diverse range of applications including computers, smartphones, home appliances, automobiles, manufacturing plants, robots and more.

For more information, visit www.ControlTechniques.US