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Note to editors: Link to high res photo and picture caption follow news release text.

New Integrated Servo Drives from Beckhoff Expand Automation Beyond Control Cabinets

AMI812x device series combines servomotor, output stage and fieldbus connection in a compact form factor

SAVAGE, Minnesota, November 12, 2020 – The new AMI812x series of integrated servo drives expands the Beckhoff compact drive technology portfolio (up to 48 V DC) with devices for distributed installation in the field. The integration of servomotor, output stage and fieldbus connection in a space-saving design makes the drives ideal for automation outside of control cabinets in the motion power range up to 400 W.

As an EtherCAT device, the AMI812x integrated servo drive can be placed directly on the machine without a control cabinet and without upstream I/O, enabling the implementation of highly compact machines without control cabinets. At market introduction, the AMI812x series includes three overall lengths in the F2 flange code with standstill torques from 0.5 to 1.1 Nm. The AMI812x is optionally available with a multi-turn absolute encoder without battery backup and with a backlash-free holding brake. With an additional sealing ring, the servo drive achieves a high IP65 protection rating and is suitable for all motor installation positions. STO safety functionality can be integrated as an option via TwinSAFE Logic.

The fast control technology, based on vector current and PI speed control, supports highly dynamic positioning tasks. Numerous monitoring options, such as over and undervoltage, overcurrent or motor utilization via calculation of an I^2T model, offer high operational reliability. The operating state is indicated by integrated status LEDs.

Power for the electronics and motor are supplied via an M12 interface. The M8 bus interface for EtherCAT offers a second port for simple cascading in an EtherCAT daisy chain. In addition, the introduction of a motor version with EtherCAT P connection is planned. The M8 I/O interface enables direct connection of two sensors or actuators in the 24 V DC signal range up to 0.5 A. The connection cables are available with straight and angled outlets. Very high torques can also be achieved with the matching planetary gear unit from the AG2250 series.

AMI812x compact integrated servo drives

Link to high res image:

https://download.beckhoff.com/download/press/2020/pictures/pr012020_Beckhoff.zip

Press picture:

Picture caption:

The Beckhoff AMI812x in three overall lengths establishes a new series of integrated servo drives for automation outside of control cabinets.

Beckhoff Automation is a provider of advanced and open automation solutions based upon proven technologies for customers to implement high performance control systems faster and at a lower overall cost than traditional PLC and motion control systems. Beckhoff's "New Automation Technology" product range includes PC-based control, Industrial PCs, automation controllers, operator interfaces, I/O, servo drives and motors. With representation in more than 60 countries, Beckhoff is well positioned to provide global sales and service to its customers. Beckhoff sales and service are handled directly, with no intermediaries involved for exceptional customer service and consultation.

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Send questions regarding "Beckhoff AMI812x servo drive series" to:

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