

PR012020

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Motion

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## ***AMI812x combines servomotor, output stage and fieldbus connection***

### **Integrated servo drive for automation outside of control cabinets**

**The new AMI812x series of integrated servo drives expands the compact drive technology portfolio (up to 48 V DC) from Beckhoff by extremely compact devices for distributed field installation. 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 slave, the AMI812x integrated servo drive can be placed directly on the machine without a control cabinet and without upstream I/O level, allowing for 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 high IP 65 protection rating and is suitable for all installation positions. The STO safety function can be integrated as an option via the 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<sup>2</sup>T model, offer high operational reliability. The operating state is indicated by integrated status LEDs.

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Electronics and motor are supplied via the M12 power 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 I/O interface (M8) 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.

➔ [www.beckhoff.com/ami812x](http://www.beckhoff.com/ami812x)

#### Press picture:



#### Picture caption:

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

#### Text and picture:

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