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

ELM72xx Series from Beckhoff Offers Compact Drive Technology in Robust Metal Housings

Beckhoff integrates servo drives with higher performance and functionality directly in the EtherCAT I/O system

SAVAGE, Minnesota, December 1, 2020 – The new ELM72xx EtherCAT Terminals are fully functional servo drives in robust metal housings that deliver an output current (Irms) of up to 16 A at 48 V DC for the power supply. They expand the Beckhoff portfolio of compact drive technology in I/O terminal format and offer all of the current technology features together with increased performance and functionality compared with comparable EL series I/O designs.

The ELM72xx modules' metal housings provide optimum heat dissipation even at high output power as well as optimal shielding against electrical interference. The new servo terminals can connect directly to other EtherCAT Terminals as an integrated component of the Beckhoff I/O system. The comprehensive functionality includes the direct connection of the motor, feedback and brake via the convenient connector front end, an integrated absolute value interface and One Cable Technology (OCT).

Additional I/Os enable latching of position values. In addition, the integrated brake chopper control permits direct connection of braking resistors. The system also integrates programmable TwinSAFE Logic for direct implementation of the safety application in the terminal and safe drive technology either as STO/SS1 via Safety over EtherCAT (FSoE) or as a comprehensive package of Safe Motion functions for safety-relevant drive technology via TwinSAFE.

Five different ELM72xx models equipped with either STO/SS1 or Safe Motion are currently available:

- ELM7211: 1-channel servo terminal with 4.5 A (Irms)
- ELM7212: 2-channel servo terminal with 2 x 4.5 A (Irms)
- ELM7221: 1-channel servo terminal with 8 A (Irms)
- ELM7222: 2-channel servo terminal with 2 x 8 A (Irms)
- ELM7231: 1-channel servo terminal with 16 A (Irms)

In contrast to the established EL series I/O terminals, the ELM72xx wiring level utilizes a pluggable design. Matching motor and sensor cables further simplify installation. The drive design – ELM72xx combined with AM8100 Servomotors – is implemented using the familiar TwinCAT 3 Motion Designer software (TE5910). The electronic nameplate and the TwinCAT 3 Drive Manager 2 software (TE5950) ensure efficient commissioning.

Beckhoff compact drive technology

Link to high res image:

https://download.beckhoff.com/download/press/2020/pictures/pr182020_Beckhoff.zip

Press picture:

Picture caption:

The new ELM72xx series servo terminals from Beckhoff deliver compact drive technology in a robust metal housing.

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 ELM72xx servo terminals" to:

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