

CANopen interface complies with CiA 402

Engel Elektroantriebe (Germany) has launched the HFI series of integrated servo drives.

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The compact drives are suited for single- or multi-axes systems (Source: Engel)

The HFI series comprise drives with motor systems and integrated electronics for operation at selective 24 V_C or 48 V_{DC}. Combined with the motors sinusoidal current feed a constant and even torque development is assured and excellent control properties are achieved.

The basic devices are operated via the CANopen interface, which complies with the CiA 402 device profile. The drives support the following operating modes: profile position, profile velocity, and profile torque mode. In the profile position mode absolute and relative demands are possible. In the single-turn version, homing is done onto limit switches, against a mechanical stop or at the current position. Optionally, the drives come with a safe-torque-off (STO) function, which complies SIL-3 (safety integrity level) and PL-e (performance level).

The electrical connection is done through a rotary connector equipped with one, two or three plugs depending on the drives version; with optional fieldbus module via radially arranged flange plugs. The drives configuration is done via EIA 232 and the "DSerV" PC-based software tool.

The company offers a broad range of digital servo controllers with CANopen connectivity. The DSV1032 digital servo controller, for example, is suited for operation with synchronous servomotors. Using the motors HBR16, HBR22 and HBR26 is recommended especially. Designed for low-voltage operation, the device provides 100-μs cycle times for the current-, speed-, and the position-controller. The CANopen interface is realized by means of an Anybus module by HMS.

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