

EPOS P programmable positioning controller

EPOS P is a freely programmable positioning controller with integrated end-stage for brushless and brush DC motors with an output of up to 120 watts.

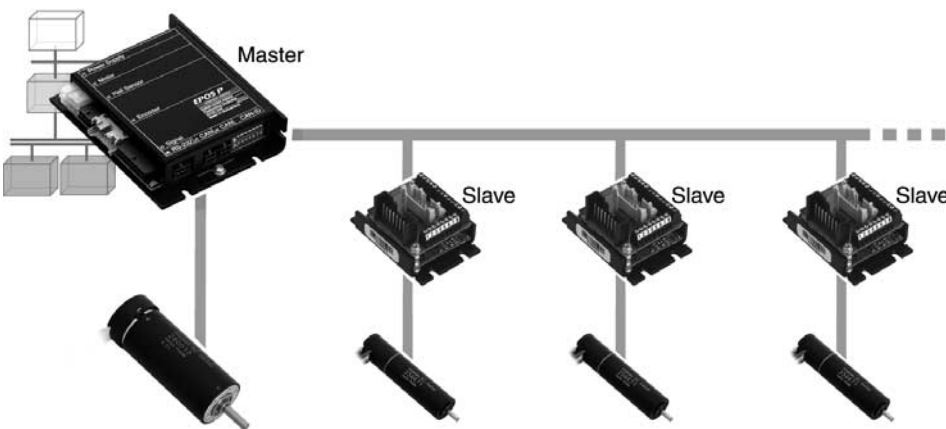
Standalone drive systems

The standalone version of EPOS can autonomously control single and multiple axis systems, dispensing with the need for a superior intelligent control unit. All axes can be coordinated at the same time via the CAN Bus. The combination with maxon motors produces drive systems for highly dynamic movements.

Standalone – single axis system



Standalone – multi-axis system



Technology

The programming of applications complies with IEC 61131-3 standard. A stable flash memory is used for saving. The three-stage code optimization produces IEC 61131-3 programs adjusted for the application's needs; optimized by memory, performance or a combination of both.

EPOS Studio - programming according to IEC 61131-3

Editors (ST, IL, FBD, LD, SFC) of the powerful "EPOS Studio" tool are available for programming according to IEC 61131-3. The integrated project browser shows all network resources. Complex programs with a large number of decentralized controls can be optimally managed with it. Drive systems are configured and networked quickly using intelligent step-by-step wizards.

Motion control library according to PLCopen standard

The complexity and development costs of drive systems are substantially reduced. The Motion Firmware Library was implemented according to the widely-used PLCopen Motion Control Standard. Standardized function blocks make implementation easy.

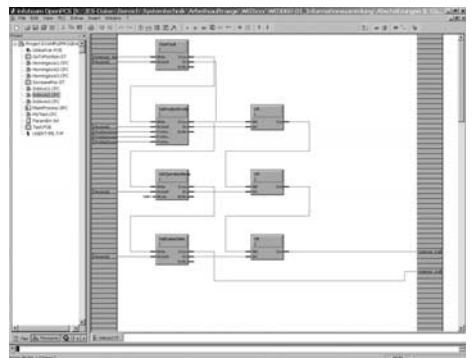
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Performance features

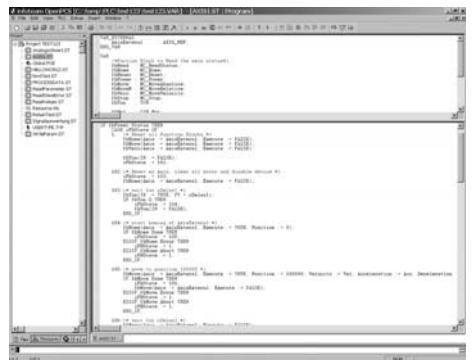
- 32 bit host processor, 60 MHz
- 1 MB memory
- Type 2.5 ms / 5000 lines IL
- 1 KB non-volatile memory
- Digital motion control signal processor

Software features

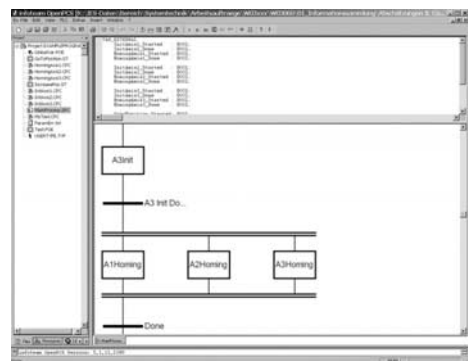
- Windows-based development environment
- IEC 61131-3 programming languages (ST, IL, FBD, LD, SFC)
- IEC 61131-3 standard libraries
- Motion control function blocks according to PLCopen standard
- CANopen function block library
- User libraries
- Network variables and data exchange
- Online debugger with break points and watch variables
- Axis configuration and parameterization
- Online help



FBD Editor



ST Editor



SFC Editor

Motion control library

- Drive control
- Referencing
- Speed control
- Positioning absolute and relative
- Error management
- Parameter handling