

we invent solutions

we develop customized solutions from idea to production and beyond.

Project details: Self-sufficient machine control module with bus connection

Industries

- Mechanical Engineering, Propulsion Technology

Technology fields

- Propulsion Technology, Software Development, Bus Systems and Radio, CAE, Intuitive Input Devices; Measurement, Control and Regulation Technology

Project requirements

- The aim of the project was the development of a motor control for two BLDC- and one stepper motor. Various interfaces, inputs for sensors and outputs for actuators as well as the usability with keyboard were further requirements. In addition, a pressure sensor in a very limited installation space, fanless operation and a CANopen bus connection is realized

Facts / Highlights

- Two stages for three-phase motors up to 350W and a stepper motor stage for bipolar stepper motors up to 150W with encoder inputs
- 2 CAN-interfaces (galvanically isolated)
- RS485 and RS232 interface
- Integrated pressure sensor
- Precisely tailored to the application
- Modular, compact, easy configuration

Services of KNESTEL

- Specification of Requirements, project planning, development of software and hardware, EMC testing, serial production

Possible applications

- Machinery and plant construction
- General propulsion technology
- Automation technology
- Distributed systems

