Twin Motor Controller (TMC)

General description

As the demand of electric powered auxiliaries increases – Continental Engineering Services (CES) developed the TMC. The main function of the Twin Motor Controller is to control/drive two BLDC motors and/or two DC motors, used in systems like water-/oil-pumps and servo units. Furthermore, the TMC functionality includes the rotor position estimation of the BLDC motor, the generation of the rotating field in the stator as well as DC motor position control and overcurrent protection.

Highlights

- Control/drive two BLDC motors and/or two DC motors
- Rotor position estimation of the BLDC motors
- Cost effective design due to the use of electrical components produced in high volume
- Field oriented control for rotational speed applications
- Support for systems without sensors
- Sine commutation
- DC motor position control
- Communication to higher-level systems via CAN
- Integrated diagnostics

Customer Benefits

- SOP Q4/2023
- Rapid prototyping and series for your BLDC and DC motor application
- Cost-effective adaptation to your requirements possible
- Control of BLDC and DC motors with a single control device possible

Specification

Ambient Temperature	-40° to 85 °C peak 105 °C
Environmental	IP6k9k

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