

SERVO CONTROLLER

CANopen interface complies with CiA 402

Trinamic Motion Control announced the TMCM-1633-CANopen device. It is a 300-W BLDC servo controller module with sinusoidal commutation.



The TMCM-1633-CANopen is compatible with Trinamic's baseboard BB-1630 (Photo: Trinamic)

The drive measures 92 mm x 50 mm and is equipped with a CAN interface and a CANopen (CiA 402) protocol stack. It provides a solution to the decentralized coordinated control of BLDC or BLAC motors of up to 10-A RMS continuous current at 48-V supply voltage. "Especially in the Asian marketplace we experience a growing demand for servo controllers communicating over the industry standard protocols CANopen or CAN over Ethercat," commented Michael Randt, CEO of Trinamic.

Featuring field-oriented control (FOC), also known as vector control, using a/b/n incremental encoder signals, the BLDC servo controller allows for precise and dynamic positioning, said the company. The product supports trapezoidal ramping as well, and hall sensor inputs are supported by the firmware for faster initialization.

Besides CANopen, the drive supports the company's TMCL protocol. Together with the free-of-charge TMCL-IDE, this allows for identification of control parameters. Graphical tools and wizards guide users through the parameterization and fine-tuning.

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