

Technosoft Drives Bring Intelligence To CANopen Networks

The new generation of Technosoft DSP intelligent drives IDM/IDS640 offers a powerful CANopen communication option for motion automation builders currently using the CANopen DSP 402 standard. Technosoft supports the popular CANopen protocol, which has emerged as the dominant CAN solution for motion control applications throughout the world.



These intelligent drives embed motion control, drive and PLC functionalities in a single compact unit (size 136 x 95 x 26 mm). They are software configurable to drive brushless, DC, linear or step motors up to 640 W (80 V, 8 A). Lower-power IDM/IDS240 versions up to 240 W (48 V, 5 A) are also available. Typical feedback devices include: incremental, sin-cos, SSI, and EnDat encoders, resolver; digital or linear Halls, tachometer (servo drives); open loop with or without an incremental or SSI encoder (stepper drives).

In addition to the DS-402 modes of operation - velocity profile, position profile (with trapezoidal or S- curve speed), homing and interpolated position (3rd order PVT or 1st order PT) - the IDM/IDS also offer other motion modes like electronic camming and gearing with the option of adding a second motion reference generator.

Thanks to their embedded motion controller, the IDM/IDS can easily be programmed to independently execute complex TML motion functions. This drastically reduces the load of the master, which can simply call the motion functions and then wait for their confirmation.

Motion programming can also be done via: the TML language of the integrated motion controller; a PC host using motion libraries (C, VB, Delphi, Labview) or a PLC using PLCopen libraries.

The CANopen interface enables machine builders to use a low-cost, high-speed serial communication bus, based on a simple twisted-pair cable, to link all the various motion control elements in automation equipment.

Complete specifications can be found on www.technosoftmotion.com.

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