

PIM3605: Powerful 180W Intelligent Plug-in Minidrive with CANopen

PIM3605 is a new, pluggable intelligent minidrive particularly adapted for motion control applications where space is critical. Manufactured with simple pins, the drive has an architecture that allows for faster assembly and installation, letting the user insert the drive in seconds. Its miniature size & weight (67 x 43 x 20 mm, 27 g) allows it to be placed inside the machine or near the motor. The drive controls brushless, DC, linear or step motors up to 180 W (36 V, 5 A) continuous and 600 W (36 V, 16 A) peak power.



PIM3605 extends Technosoft's plug-in minidrive series by increasing the power capabilities offered by **PIM2401** (25 W) and **PIM2403** (75 W).

The hardware structure of PIM3605 is based on a cost-optimised design that integrates all the basic motor control functions on a single module. A series of I/O signals, both digital and analog, are available for easy interfacing with the application. Incremental encoders, digital and linear Halls are incorporated by default. The drive is fully programmable with the **EasyMotion Studio** software and Technosoft Motion Language (TML). A complete set of high-level TML instructions allows the user to define and start complex motion sequences from a CAN master via **PC / PLC** (using the appropriate motion library), or to execute pre-stored motion sequences selected from I/O lines, in a stand-alone mode.

A key advantage of PIM3605 is its ability to run complex motions without requiring any external controller. The movement sequences can be programmed directly on the drive, while system control functions are handled from the supervising PC or PLC. Motion modes as contouring, profiling, gearing, electronic camming or PVT are easily executed in stand-alone or multi-axis configurations.

PC / PLC motion libraries are available for the drive's quick industrial integration. The PIM3605 starter kits help users to evaluate the drive and develop their specific projects. PIM3605 supports CiA standards DS-301 and DSP402 CANopen. An **IBL3605** minidrive (PIM3605's panel-mount version) is also available.

The PIM3605 drive's embedded intelligence, plug-in design, higher power, and miniature size make it a valuable motion control solution for all industrial applications that need high-precision control and limited space integration.

Complete specifications can be found on:

http://www.technosoftmotion.com/products/OEM_PROD_PIM3605.htm

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