

IS23x-MA Intelligent Step Motors Suited for Multi-Axis Applications

Technosoft is proud to announce the new IS23x-MA Intelligent Step Motors, based on the MotionChip™ DSP Control Technology, specially adapted to distributed motion control applications with integrated intelligence.

These ready-to-run motors have a cost optimized design embedding stepper motor, power electronics, controller and interface into a single compact unit (61/96 x 57 x 57 mm), together with basic local digital and analog I/O signals and PLC functionalities. This structure significantly reduces the motor cabling through the machine and eliminates the usage of external setup analog components.



IS23x-MA have been developed in 2 motor lengths, offering 1 to 1.8 Nm permanent output torque and operated from a 12 to 48 V single power supply. High resolution settings to the equivalent of up to 256 microsteps / step can be used.

The motion programming can be done from a CAN / CANopen master via PC / PLC, either by using the appropriate motion library, or directly at motor level, using the built-in motion controller and the EasyMotion Studio platform. This greatly simplifies the master's task: motion functions pre-stored in the motor memory can be called or executed via I/O signals.

IS23x are fully programmable to execute position or speed control. They include high-level trajectory generators for: profiles (S-curve, trapezoidal or PVT), contouring, electronic gearing and camming. Communication is done over CAN (CANopen / TMLCAN) or RS-232 networks.

For an off-the-shelf usage, the IS23x-DS motors (already configured to cover the usual operation modes and parameters) are available.

All these benefits – compactness, embedded intelligence and cost-effective design – make the IS23x a valuable motion control solution for all industrial applications where space is critical and the machines need to look neat and uncluttered. Thanks to the IS23x's local intelligence, users can really simplify complex applications by distributing the intelligence between master and motors. Thus, instead of trying to command each step of an axis motion from the master, they can program the motors using TML to execute complex tasks and inform the master when these tasks have been completed.

Specifications can be found on:

http://www.technosoftmotion.com/products/OEM_PROD_IS23x.htm

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