The iPOS3604 is based on a new design concept offering a cost effective, compact and modular solution for the control of rotary or linear brushless, DC brush, and step motors of powers up to 144W, with 36V nominal voltage.

Designed to cover for low- to high-volume applications, iPOS3604 integrates all the basic motor control functions and the motion control functionality on a single plug-in module. A series of I/O signals, both digital and analogue, are available for easy interfacing with the application.

iPOS3604 offers a flexible and modular solution at various levels: plug-in vertical (VX models) or horizontal (MX models) open PCB that can be integrated on the user’s motherboard, or protected by a metal cover and provided with retractable connectors (BX models).

Thanks to the TML (Technosoft Motion Language) instruction set, the iPOS3604 is an intelligent drive programmable at user’s level. In simple applications the unit can operate as a single-axis motion controller and drive, in stand-alone mode, autonomously running the program residing in its non-volatile memory. In systems that request a host, the iPOS drive operates as an intelligent slave executing motion sequences triggered by input lines or commands received via RS-232 or CAN bus communication.

The configuration, tuning and programming of the iPOS3604 drive is easy with Technosoft’s powerful graphical platform, EasyMotion Studio. System configuration and parameterization are performed by selecting and testing the system structure, motor and sensor types and control mode.

Application notes with TML program examples available at www.technosoftmotion.com.
**DIMENSIONS, SPECIFICATION, ORDERING INFORMATION**

**iPOS3604 VX**

**iPOS3604 MX**

**EASY MOTION STUDIO**

The high level graphical development environment EasyMotion Studio, supports the configuration, parameterization and programming of the drive, through
- Motion system set-up wizard
- Tuning assistance with capture functions
- Definition, programming and testing of motion sequences

**EASY MOTION STUDIO LIBRARIES**
The TML_LIB Motion Control Libraries can be used to implement a motion control application on a PC from Visual C / C++, C#, Visual Basic, Delphi or LabVIEW under Windows or Linux operating systems.

If a PLC is used as host, implementations of the TML_LIB observing the IEC-61131 standard are available for Siemens, B&R and Omron PLCs.

**iPOS3604 STARTER KIT**

Complete evaluation packages for the iPOS3604 drives, containing the servodrive, motor, I/O board, EasyMotion Studio software, that are supported by a collection of application notes and documentation.

**iPOS3604 INTELLIGENT SERVO DRIVES**

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum DC supply voltage: motor and logic</td>
<td>36V</td>
</tr>
<tr>
<td>Maximum continuous current</td>
<td>4A</td>
</tr>
<tr>
<td>Peak current (2.4 sec. max.)</td>
<td>10A</td>
</tr>
<tr>
<td>Nominal switching frequency</td>
<td>20-60kHz</td>
</tr>
<tr>
<td>Operating ambient temperature</td>
<td>0°C-40°C</td>
</tr>
</tbody>
</table>

**Ordering Information**

- P028.002.E001 iPOS3604 VX-CAN Intelligent Drive, 36V, 4A, Plug-in, Enc., CAN
- P028.002.E101 iPOS3604 MX-CAN Intelligent Drive, 36V, 4A, Pins, Enc., CAN
- P028.002.E201 iPOS3604 BX-CAN Intelligent Drive, 36V, 4A, Closed-frame, CAN
- P028.002.E801 iP OS3604 VX-CAN Starter Kit with Brushless Motor
- P028.002.E804 iP OS3604 MX-CAN Starter Kit with Brushless Motor
- P028.002.E880 iP OS360x VX-CAN I/O Board
- P028.002.E881 iP OS360x MX-CAN I/O Board
- P034.001.E002 EasyMotion Studio Software
- P040.001.Exxx TML_LIB Motion Library**

**FLEXIBILITY**

Control schemes supported by the iPOS3604 Drive

<table>
<thead>
<tr>
<th>Motor Types</th>
<th>Torque Control</th>
<th>Speed Control</th>
<th>Position Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brushless DC / AC (Rotary or Linear)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DC Brush</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Step</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Dimensions in mm. Drawings not to scale.**

P091.028.iPOS3604.LFT.0313

*This information is subject to change without notice.*