Execution CANopen-Master Interfaces

1. Standard CANopen Master Interface

Type designation: BM4-O-CAN-04-00-00
Part No.:350443
Function: CANopen-Master Interfaces
Presuppositions: BM44XX-XX-XXXXX-XX and BM4-O-PLC-XX-XX-XX

Information of nameplate:

BM4-O-CAN-04 - **00** - **00** - **yyy** - **zzz**

LP 3.0107.01.Xxx

D2000:   6.1302.xxxx
D4020:   6.1307.xxxx
D6030:   6.1303.xxxx

	LP-Version	yyy		zzz	Firmware 6.1307	Mach SW 6.1303.	FPGA-SW 6.1302
3.0107.01	B01	000		000	0101	0201	0101
	B02	001		000	0101	0201	0101
	B03	002		000	0101	0201	0101
	B03	002		001	0106	0201	0101
	B03	002		002	0107	0201	0101
	B03	002		003	0110	0201	0106
	B04	003		003	0110	0201	0106
	B04	003		004	0110	0201	0108
	B04	003		005	0113	0201	0108
	B05	004		005	0113	0201	0108
	B06	104		005	0113	0201	0108
	C02	005		005	0113	0201	0108
	C03	006		005	0113	0201	0108
	C03	006		006	0121	0201	0110
	C04	106		006	0121	0201	0110
	D01	007		005	0121	0201	0108
	D01	007		006	0121	0201	0110
	D02	008		006	0121	0201	0110

Hardware history

The printed circuit board 3.0107.01.B01 is the first official version.
The printed circuit board 3.0107.01.B02 is introduced with AT161_03 from March 31, 2003.
- Adaptation of the parts list to the series production

The printed circuit board 3.0107.01.B03 is introduced with AT441_03 from October 01, 2003.
- Internal change of the plug (solder instead of press)

The printed circuit board 3.0107.01.B04 is introduced with AT076_05 from April 04, 2005.
- Optimized boot behavior (Reset level at the option modules)

The printed circuit board 3.0107.01.B05 is introduced with AT434_05 from December 16, 2005.
- Optimized for internal test equipment (additional resistors)

The printed circuit board 3.0107.01.C02 is introduced with AT434_05 from December 16, 2005.
- Optimized for the procedure of production

The printed circuit board 3.0107.01.C03 is introduced with AT196_06 from June 27, 2006.
- Optimized assembly

The printed circuit board 3.0107.01.D01 is introduced with AT196_06 from June 27, 2006.
- Optimized Layout

The printed circuit board 3.0107.01.D02 / C04/ B06 is introduced with AT215_07 from July 24, 2007.
- Correction for error pattern ‚Prozessor Abort During Data Access'

The changes are for the software uncritically. New software also runs on old hardware version.

FPGA software history

The FPGA-software 1.01 is the first official version.
The FPGA-software 1.06 is introduced with AT076_05 from November 17, 2003.

- Synchronization behavior improves with restart of the synchronization
- Improvement of the BACI-Timing

The FPGA-software 1.08 is introduced with AT194_05 from June 17, 2005.

- Improvement of the signal quality (influence of the temperature)

The FPGA-software 1.10 is introduced with AT073_07 from March 2, 2007.

- Standardization of software

Firmware history

The Firmware-software 1.01 is the first official version.

The Firmware-software 1.06 is introduced with AT489_03 from November 17, 2003.

- Extension of the functionality on Multi Axis Motion Control

The Firmware-software 1.07 is introduced with AT111_04 from February 26, 2004.

- Adaptation of the identification of new flash types

The Firmware-software 1.10 is introduced with AT076_05 from April 04, 2005.

- Synchronization behavior improves with restart of the synchronization
- Improvement of the BACI-Timing

The Firmware-software 1.13 is introduced with AT367_04 from June 22, 2005.

- Qualities of all Firmware-versions (standard and cross communication) combines on a single firmware

The Firmware-software 01.21 is introduced with AT073_07 from March 02, 2007.

- Configurable with ProMaster
- Support of MotionControl
- Automatically net work management
- Synchronization of process communication in IEC for 256RxPDOs and 256TxPDOs
- Communication profile DS301, DSP 302 and application profile DS405

Indication

The modules CAN-04-00-00 and ETH-01-00-00, ETH-02-00-00 are identical software-technically.

For support of ProMaster the software firmware 1.21 or higher must be implemented.

The functional character CANopen Master or Ethernet interface or both is fixed by the assembly of the hardware.

The basic devices with LC-SW01 or LC-SW03 can be served with Motion Control from firmware 1.06.

Update-Indication

Firmware and FPGA-SW always together update at last version.