SIMOVERT MASTERDRIVES Motion Control Engineering information

Electronics options

Compact PLUS units





SCB1 and SCB2 interface boards for compact and chassis units (not available for Compact PLUS)

SCB1 interface board

The SCB1 interface board (Serial Communication Board 1) has a fiber-optic cable connection and enables the creation of a:

- peer-to-peer connection between several units with a max. data transfer rate of 38.4 kbit/s
- serial I/O system in conjunction with the SCI1 and SCI2 serial interface boards.

The following is thus made possible:

- 1. Expansion of the number of binary and analog inputs and outputs of the basic units
- 2. Customized assignment of the terminals for the inputs and outputs (e.g. NAMUR).

The following board combinations are possible:

SCB1 with one SCI1 or SCI2

SCB1with two SCI1 or SCI2 boards

SCB 1 with one SCI1 and one SCI2

The SCB1 interface board can be integrated into the electronics box in mounting position 2 or 3.

SCB2 interface board

The SCB2 interface board (Serial Communication Board 2) has a floating RS485 interface and enables the following alternatives:



Example of connecting a serial I/O system with SCB1, SCI1 and SCI2

- Peer-to-peer connection between several converters via the RS485 interface.
- Bus connection with a maximum of 31 slaves connected to a master (e.g. SIMATIC) via the RS485 interface, using the USS protocol. The maximum data transfer rate is 187.5 kbit/s.

The SCB2 interface board can be integrated into the electronics box in mounting position 2 or 3.

Note

The SCB2 interface board always operates as a slave.



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Peer-to-peer connection

The serial peer-to-peer connection operates via a 4-wire connection.

A peer-to-peer connection can also be created in parallel with the SCB2, i.e. the corresponding slave drives are controlled by the master drive via a parallel cable.



Example of a serial peer-to-peer connection via RS485



Example of a parallel peer-to-peer connection via RS485

Bus connection with USS protocol



Example of a bus connection with USS protocol via RS485.