INTERBUS

INTERBUS	**Order ref.**	**EMF2111IB**
INTERBUS	**Order ref.**	**EMF2113IB**

The communication module enables the inverter to support the DRIVECOM drive profile “Drive technology 21” or Lenze device control (optional). INTERBUS interfacing takes place directly on the remote bus.

- Two LEDs are located on the communication module to indicate the communication status.
- EMF2113IB: The baud rate and process data words/parameter data words can be adjusted via the DIP switch.

Communication medium	RS485
Selectable drive profile	• Lenze device control • DRIVECOM profile “Drive technology 21”
Baud rate	500 kBit/s (2113IB: 500 kBit/s or 2 MBit/s)
INTERBUS device	Slave
Network topology	Ring (go and return lines in the same bus cable)
Process data words (PCD) (16 bits)	2... 3 words (2113IB with Drive PLC/Servo PLC: max. 10 words)
Parameter data words (PCP) (16 bits)	1 word (2113IB: max. 4 words)
INTERBUS code (ID code)	Decimal: 227; hex: E3
Max. PDU length	64 bytes
Supported PCP services	Initiate, Abort, Status, Identify, Get-OV-Long, Read, Write
Number of devices	Depends on the host system (I/O range), max. 63
Max. distance between 2 devices	400 m
Electrical connection	Screw-type terminal and SUB-D socket/connector (9-pin)
DC supply	• Internal • External – required if the communication ring must not be interrupted if a bus device is switched off or fails – supply via separate mains supply – +24 V DC ± 10%, max. 100 mA per module
Insulation voltage to reference earth/PE	50 V AC
Ambient temperature	Operation: 0 ... +55°C Transport: –25 ... +70°C Storage: –25 ... +60°C
Climatic conditions	Class 3K3 to EN 50178 (without condensation, average relative humidity 85%)

INTERBUS Loop

INTERBUS Loop	Order ref.	EMF2112IB

The communication module enables the inverter to support the DRIVECOM drive profile “Drive technology 20” or Lenze device control (optional). INTERBUS Loops can be integrated within the INTERBUS network.

Here, the DC supply to the communication modules is provided via the bus line of the INTERBUS Loop.
Two LEDs are located on the communication module to indicate the communication status.

General data and application conditions

Selectable drive profile	• Lenze device control • DRIVECOM profile “Drive technology 20”
Baud rate [kBit/s]	500
INTERBUS device	Slave
Network topology	Ring
Process data words (PCD) (16 bits)	2 words
Parameter data words (PCP) (16 bits)	Not supported
INTERBUS code (ID code)	Decimal: 179; hex: B3
Max. PDU length	4 bytes
Supported PCP services	None
Max. number of devices	36 Lenze inverters
Max. loop length	200 m
Max. distance between 2 devices	20 m
Electrical connection	Screw-type terminals
DC supply	Via the bus
Insulation voltage to reference earth/PE	50 V AC
Ambient temperature	Operation: 0 ... +55°C Transport: –25 ... +70°C Storage: –25 ... +60°C
Climatic conditions	Class 3K3 to EN 50178 (without condensation, average relative humidity 85%)