

### PROFIBUS

<b>PROFIBUS</b>	<b>Order ref.</b>	<b>EMF2133IB</b>
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The communication module enables the inverter to support the PROFIBUS-DP profile.

- Two LEDs are located on the communication module to indicate the communication status.
- A configuration diskette for PROFIBUS-DP containing the description file for the devices (EDS file) is included in the scope of supply.
- The address can be adjusted via the DIP switch.
- Can be switched to the functionality of the 2131IB predecessor communication module via a DIP switch.

#### General data and application conditions

<b>Communication medium</b>	RS485
<b>Communication profile</b>	PROFIBUS-DP (DIN 19245 Part 1 and Part 3)
<b>Selectable drive profile</b>	<ul style="list-style-type: none"> <li>• DRIVECOM profile "Drive technology 20"</li> <li>• PROFIDRIVE</li> <li>• Lenze device control</li> </ul>
<b>Baud rate [kBit/s]</b>	9.6...12000 (automatic detection)
<b>PROFIBUS-DP device</b>	Slave
<b>Network topology</b>	Without repeater: line With repeaters: line or tree
<b>Process data words (PCD) (16 bits)</b>	1...12 words (2133IB with 8200 vector: max. 3 words; only with Servo PLC/Drive PLC: max. 12 words)
<b>DP user data length</b>	Parameter channel (4 words) + process data words
<b>Max. number of devices</b>	Standard: 32 (= 1 bus segment) including host system With repeaters: 128 including host system and repeaters
<b>Max. cable length per bus segment</b>	1200 m (depending on baud rate and cable type used)
<b>Electrical connection</b>	Screw-type terminal and SUB-D socket (9-pin)
<b>DC supply</b>	<ul style="list-style-type: none"> <li>• Internal</li> <li>• External <ul style="list-style-type: none"> <li>- only required for bus devices which are to be disconnected from the mains, but communication with the master is to be maintained</li> <li>- supply via separate mains supply</li> <li>- +24 V DC <math>\pm</math> 10%, max. 120 mA per module</li> </ul> </li> </ul>
<b>Insulation voltage to reference earth/PE</b>	50 V AC
<b>Ambient temperature</b>	Operation: 0 ... +55°C Transport: -25 ... +70°C Storage: -25 ... +60°C
<b>Climatic conditions</b>	Class 3K3 to EN 50178 (without condensation, average relative humidity 85%)

