

### CAN/CANopen

<b>CAN</b>	<b>Order ref.</b>	<b>EMF2171IB</b>
<b>CAN (addressing via DIP switches)</b>	<b>Order ref.</b>	<b>EMF2172IB</b>
<b>CANopen</b>	<b>Order ref.</b>	<b>EMF2175IB</b>

The communication modules enable the inverter to support the CAN (2171/2172)/CANopen profile (2175). Modules 2171/2172 support parts of the CANopen communication profile and module 2175 supports the entire profile. Unlike module 2172, module 2171 has an additional DIP switch for presetting the network address and baud rate.

- The module EMF 2175IB can be switched over to DeviceNet via a DIP switch (see next page).
- Two LEDs are located on the communication modules to indicate the communication status.
- A configuration diskette for CANopen containing the description file for the devices (EDS file) is included in the scope of supply.

### General data and application conditions

<b>Communication medium</b>	DIN ISO 11898							
<b>Communication profile</b>	CANopen							
<b>DeviceNet device</b>	Slave							
<b>Network topology</b>	Line (terminated at both ends with 120 Ω)							
<b>Max. number of devices</b>	63							
<b>Baud rate [kBit/s]</b>	10	20	50	125	250	500	1000	
<b>2171/2172: Max. bus length (m)<sup>1)</sup></b>	–	–	1550	630	290	120	25	
<b>2175: Max. bus length (m)<sup>1)</sup></b>	7450	3950	1550	630	290	120	25	
<b>Electrical connection</b>	Screw-type terminals							
<b>DC supply</b>	<ul style="list-style-type: none"> <li>• Internal</li> <li>• External                             <ul style="list-style-type: none"> <li>– only required if a bus device is switched off or fails but communication with it is to be maintained</li> <li>– supply via separate mains supply</li> <li>– +24 V DC ± 10%, max. 100 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%)							

<sup>1)</sup> You should be aware of the additional effect of the number of devices and the cable cross-section used on the maximum bus cable lengths.

