

Lenze EMF2102IBCV001 Manual

Brand	Lenze
Product Series	Lenze
Product Type	Communication module

Description

The EMF2102IBCV001 module from Lenze's Series 8200 is designed for communication purposes. It supports multiple baud rates and features robust connectivity options.

Technical specifications for EMF2102IBCV001

Manufacturer Lenze

Product Type Communication module

Product Line Series 8200

Part Number EMF2102IBCV001

Weight 0.50 lbs (0.23 kg)

Protection Rating IP20

Current Consumption 80 milliamperes

Baud Rate 1,200, 2,400, 4,800, 9,600, and 19,200 bit per second

Ambient Operating Temperature 0 to 55°C

Communication Media RS232 (LECOM-A) and RS-485 (LECOM-B)

Rated Supply Voltage 24 Volts DC

Storage Temperature -25 to 60°C

Communication Protocol LECOM-A/B Version 2.0

Character Format 7-bit ASCII

Electrical Connection Type Screw terminal

Compatible Cable Type For RS485 LiYCY cable (Low-frequency PVC shielded data cable) for 300 meters cable length and CYPiMF cable (Pair In Metal Foil Shielded Cable) for 1,200 meters cable length

Compatible Cable Type For RS232 LiYCY cable (Low-frequency PVC shielded data cable)

Compatible Screw Size AWG 16 (1.5 millimeter squared) screw

Screw Tightening Torque 0.5 to 0.6 Newton-meter

Description

The EMF2102IBCV001 from Lenze represents a communication module in the Series 8200 lineup. This device is protected by an IP20 rating, ensuring its suitability for various environments. It operates with a current draw of 80 milliamperes and can communicate effectively utilizing different baud rates ranging from 1,200 to 19,200 bits per second.

The module utilizes RS232 (LECOM-A) and RS-485 (LECOM-B) communication media for data transmission. To function properly, the unit requires a rated supply voltage of 24 Volts DC. In terms of temperature performance, the EMF2102IBCV001 can operate within an ambient temperature range of 0 to 55°C and can also be stored from -25°C to 60°C.

It communicates using the LECOM-A/B Version 2.0 protocol and encodes data in a 7-bit ASCII character format, making it compatible with various systems. Electrical connections are made via screw terminals, compatible with AWG 16 screws measuring 1.5 millimeters squared. The recommended screw-tightening torque falls between 0.5 and 0.6 Newton meters.

It supports specific types of cabling: use LiYCY low-frequency PVC shielded data cables for RS232 connectivity. For RS485

communications, compatible cable types include LiYCY cables for lengths up to 300 meters and CYPiMF (Pair In Metal Foil Shielded Cable) for distances up to 1,200 meters, ensuring flexibility in installation options while maintaining signal integrity.

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