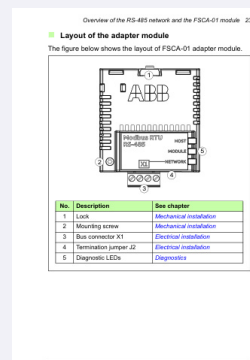


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

ABB FSCA-01 3BHE030763R0002

RS-485 fieldbus adapter module



PRODUCT	FSCA-01 3BHE030763R0002
ARTICLE	3BHE030763R0002
FAMILY	ABB drives serial communication
DOCUMENT	ABB FSCA-01 RS-485 adapter module user's manual

Prepared from the applicable ABB manufacturer manual. Use this guide with the complete controlled ABB documentation and the approved site safety procedure.

01

CONFIRM THE ORDERED CONFIGURATION

EXACT ARTICLE CODE	3BHE030763R0002
MODULE TYPE	FSCA-01 RS-485 adapter
PHYSICAL INTERFACE	EIA-485 two-wire serial
PROTOCOL	Modbus RTU
COMMUNICATION ROLE	Modbus RTU slave
BAUD RATES	9.6, 19.2, 38.4 and 57.6 kbit/s
PARITY OPTIONS	None, even or odd

02

PREPARATION

- Stop the drive safely and isolate its control power before opening the option-module position.
- Record the existing drive parameters, network address, baud rate, parity, stop bits and RS-485 termination state.
- Confirm FSCA-01 article 3BHE030763R0002 and inspect the terminal block, option connector and cable shield.

OFFICIAL ABB INSTALLATION AND CONNECTION DRAWINGS

The drawings below are reproduced from the applicable ABB manual. Preserve their original orientation and match every connector, switch and terminal designation to the exact product.

Mechanical installation 25

4

Mechanical installation

What this chapter contains

This chapter contains a delivery checklist and instructions to install the adapter module.

Necessary tools and instructions

You will need a Torx TX10 screwdriver to secure the FSCA adapter module to the drive. See also, the applicable drive hardware manual. 

Unpacking and examining the delivery

1. Open the option package.
2. Make sure that the package contains:
 - FSCA-01 RS-485 adapter module
 - this manual.
3. Make sure that there are no signs of damage.

26 Mechanical installation

Installing the adapter module



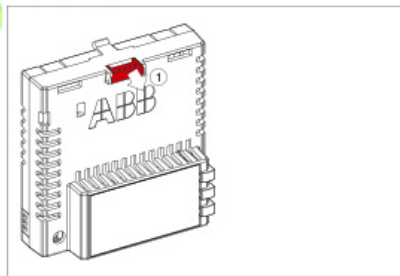
WARNING! Obey the safety instructions. See chapter [Safety instructions](#) on page 9. If you ignore the safety instructions, injury or death can occur.

The adapter module has a specific position in the drive. You can plug and unplug the adapter when the drive is power off and no external 24 voltage supplied to the control board. Plastic pins, a lock and one screw hold the adapter module in place. The screw also makes an electrical connection between the module and drive frame for cable shield termination.

When the adapter module is installed, it makes the signal and power connection to the drive through a 20-pin connector.

When you install or remove the adapter module from the control unit:

1. Pull out the lock.



04

CONNECTION AND CONFIGURATION

- Fit the FSCA-01 into the supported ABB drive option slot and secure it as shown in the mechanical installation drawing.
- Connect the two-wire EIA-485 data pair, common reference and shield at the detachable terminal block with the documented polarity.
- Set node address, baud rate, parity, stop bits, termination and biasing to match the Modbus RTU network design.

05

INITIAL SYSTEM CHECKS

- Restore drive control power and confirm the FSCA-01 network and module LEDs show the documented states.
- Verify that the Modbus master reads the correct drive status words and writes only the approved control and reference registers.
- Test loss and recovery of serial communication, confirm timeout behavior and retain the final network settings.

06

CONTROLLED DOCUMENTS

Official source	ABB FSCA-01 RS-485 adapter module user's manual
Product record	FSCA-01 3BHE030763R0002
ABB article	3BHE030763R0002
Support	INFO@AMIKON.CN