

OFFICIAL MODEL-SPECIFIC GUIDE

Installation Instructions

FEIP-21 3AXD50000192793

ABB drive fieldbus adapters · two-port EtherNet/IP adapter

01 VERIFIED CONFIGURATION

Network Protocol	EtherNet/IP
Ethernet Ports	2 x RJ45
Network Rate	10/100 Mbit/s
Topology Support	Star, line and ring
Device Level Ring	Supported

02 DOCUMENTED INSTALLATION SCOPE

- Isolate all applicable electrical and process energy before work.
- Confirm the exact article number, option slot and connector assignments.
- Follow the official ABB mounting, wiring and commissioning sequence.

INSTALLATION CHECK

Confirm compatible drive or controller hardware and site procedure before work.

OFFICIAL INSTALLATION AND WIRING REFERENCE

14 Introduction to the manual

■ Protocol

The FEIP-21 module is compatible with Ethernet standards IEEE 802.3 and IEE 802.3u and it supports the EtherNet/IP protocol.

All EtherNet/IP clients that support:

- The CIP Networks Library, Volume 1, Common Industrial Protocol (CIP), Edition 3.0 May, 2006
- The CIP Networks Library, Volume 2, EtherNet/IP Adaptation of CIP, Edition 1.2 May, 2006
- Recommended Functionality for EtherNet/IP Devices Version 1.2, Feb., 2006

are compatible with the EtherNet/IP module.

Target audience

This manual is intended for people who plan the installation, install, start up, use and service the module. Before you do work on the module, read this manual and the applicable drive manual that contains the hardware and safety information for the product.

You are expected to know the fundamentals of electricity, wiring, electrical components, and electrical schematic symbols.

Purpose of the manual

The manual provides information on how to install, commission and use the FEIP-21 module.

Cyber security disclaimer

This product is designed to be connected to and to communicate information and data via a network interface. It is Customer's sole responsibility to provide and continuously ensure a secure connection between the product and Customer network or any other network (as the case may be). Customer shall establish and maintain any appropriate measures (such as but not limited to the installation of firewalls, application of authentication measures, encryption of data, installation of anti-virus programs, etc.) to protect the product, the network, its system and the interface against any kind of security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information.

ABB and its affiliates are not liable for damages and/or losses related to such security breaches, any unauthorized access, interference, intrusion, leakage and/or theft of data or information.

Terms and abbreviations

Term	Description
Control word	16-bit or 32-bit word from a controller to the controlled device with bit-coded control signals (sometimes called the Command word).
DHCP	Dynamic Host Control Protocol. A protocol for automating the configuration of IP devices. DHCP can be used to automatically assign IP addresses and related network information.

24 Mechanical installation

Installing option modules



WARNING Obey the safety instructions of the drive. If you ignore them, injury or death, or damage to the equipment can occur. If you are not a qualified electrical professional, do not do electrical installation, commissioning or maintenance work.

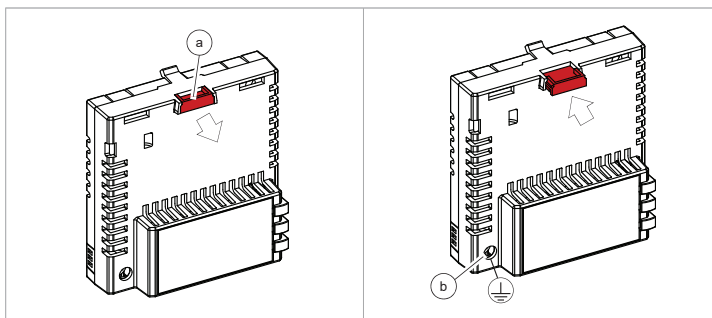
Pay attention to the free space required by the cabling and terminals that connect to the option modules.

1. Stop the drive and do the steps in section **Electrical safety precautions** of the drive hardware manual.
2. Get access to the drive control unit. For the location of the control unit, refer to the drive hardware manual.
3. Pull out the lock on the module (a).
4. Install the module in a free option module slot on the control unit.
5. Push in the lock on the module (a).
6. Torque the grounding screw (b) to 0.8 N·m (7 lbf·in).

Note: The screw tightens the connections and grounds the module. It is necessary for fulfilling the EMC requirements and for correct operation of the module.



NOTICE Do not tighten the screw too much or too little. If you tighten the screw too much, damage to the threads or to the module can occur. A loose screw can cause a malfunction.



7. Connect the wiring to the module. Obey the instructions in this manual.

If you must remove the adapter module after it was installed into the drive, use a suitable tool (for example, small pliers) to carefully pull out the lock.