

OFFICIAL MODEL-SPECIFIC GUIDE

Installation Instructions

FPBA-01-M

ABB drive fieldbus adapters · PROFIBUS-DP adapter module

01 VERIFIED CONFIGURATION

Fieldbus Protocol	PROFIBUS-DP
Bus Connector	9-pin D-sub
Node Address	Configured by drive parameters
Communication Profile	ABB Drives profile
Termination	PROFIBUS termination network

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.

OPTIONS FOR ABB DRIVES

FPBA-01 PROFIBUS DP adapter module

Quick installation and start-up guide

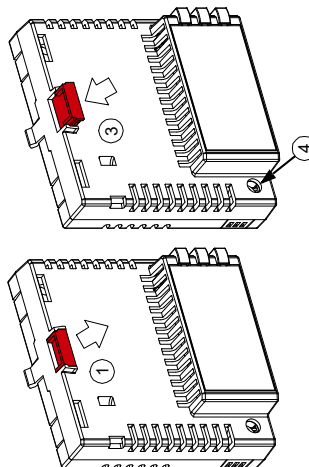
Safety instructions



WARNING! Obey the safety instructions of the drive. If you ignore them, injury or death, or damage to the equipment can occur.

Mechanical installation

1. Pull out the lock.
2. Install the module carefully to an option module slot of the drive. See the drive hardware manual.
3. Push in the lock.
4. Tighten the screw to torque 0.8 N·m using a Torx TX10 screwdriver.



WARNING! Do not use excessive force, or leave the screw too loose. Over-tightening can damage the screw or module. A loose screw decreases the EMC performance, and can cause an operation failure.

Electrical installation

- Layout of the module



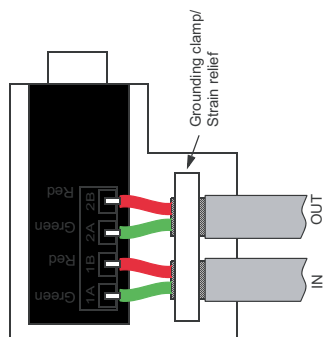
No.	Description
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OFFICIAL INSTALLATION AND WIRING REFERENCE

Connection procedure

ABB recommends that you use a PROFIBUS-approved D-SUB 9 connector. These connectors have a built-in termination network and inductors for station capacitance compensation.

Connect the cable to the D-SUB connector as shown in the figure.



Start-up

To control the drive with the adapter module, set at least the basic parameters listed in the table below. For full parameter descriptions, refer to the adapter module's user manual or to the drive's firmware manual.

Basic parameter settings

Index	Name	Value
20.01	ExtI commands	Fieldbus A
22.11	Speed ref1 source	FBA A ref 1
28.11	Frequency ref1 source	FBA A ref 1
50.01	FBA A enable	Enable (or select the option slot in which the module is installed).
50.02	FBA A comm loss func	Fault
51.02	Node address	Set the node address of the module according to the network configuration.
51.05	Profile	The ABB Drives communication profile is the default value.
52.01	FBA A data in1	SW 16bit
52.02	FBA A data in2	Act 16bit
53.01	FBA A data out1	CW 16bit
53.02	FBA A data out2	Ref1 16bit

To take the settings into use, validate and refresh the parameters with parameter 51.27 FBA par refresh.

Further information

See the latest version of FDBA-01 PROFIBUS DP adapter module For more information on ABB fieldbus options and networks