

OFFICIAL MODEL-SPECIFIC GUIDE

Installation Instructions

NTAC-02 58967441

ABB ACS 600 option modules · pulse encoder interface module

01 VERIFIED CONFIGURATION

Interface Function	Pulse encoder input
Applicable Drive	ACS 600
Module Node Address	Selectable
Encoder Supply	Module supplied
Mechanical Mounting	Inside or outside drive

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.

Mounting Inside the Drive

The work inside the drive should be carried out by a qualified electrician only.



WARNING! Pay attention to the slowly discharging voltage of the capacitor bank and the voltages that are connected from external control circuits to the inputs and outputs of the drive.



WARNING! Do not touch the printed circuit boards. The integrated circuits are extremely sensitive to electrostatic discharge.

Mounting instructions:

1. Stop the drive.
2. Switch off the power supply of the drive and all dangerous voltages connected to the inputs and outputs.
3. Wait for five minutes to ensure that the capacitors in the intermediate circuit have discharged.
4. Remove the front cover of the drive.
5. Ensure that the mains cable, motor cable and capacitor bank (UDC+ and UDC-) are not powered.
6. Locate the position for the module (see the *ACS 600 Hardware Manual*). Fasten the mounting rail to its place if not already installed. Observe the free space requirements for the module (min. 10 mm from adjoining equipment/wall).
7. Push the module onto the rail. The module can be released by pulling the locking spring with a screwdriver (see Figure 3-2).

OFFICIAL INSTALLATION AND WIRING REFERENCE

Chapter 3 – Installation

Mechanical Installation Depending on the drive, the module(s) can be installed either inside or outside the drive housing or cabinet. See the *Hardware Manual* of the drive for module placement options.

Mounting Outside the Drive

Choose the location for the module. Note the following:

- The cabling instructions (given later in this chapter for each module type) must be followed. Also, the length of the fibre optic cables included in the option package may restrict the distance between the module and the drive.
- Observe the free space requirements for the module (min. 10 mm from adjoining equipment or wall) and the drive (see the drive documentation).
- The ambient conditions must be taken into account (see Appendix B). The degree of protection of the module is IP 20.
- Module earth is connected to the mounting rail by means of an earthing clip (see Figure 3-2 below). The mounting rail onto which the module is to be mounted must be earthed to a noiseless earth. If the rail is not mounted on a properly earthed base, a separate earthing conductor must be used. The conductor must be as short as possible and the cross-sectional area must be 6 mm² at least.
Note: No solid copper conductor may be used (stranded wire allowed only).

Mounting instructions:

1. Switch off all dangerous voltages in the enclosure that the module is to be mounted in.
2. Fasten the rail and ensure proper earthing as described above.
3. Push the module onto the rail. The module can be released by pulling the locking spring with a screwdriver (see Figure 3-2).

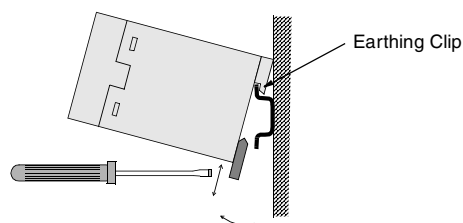


Figure 3-2 Mounting and removing the module.