The NPBA-01 PROFIBUS Adapter Module

The NPBA-01 PROFIBUS Adapter Module is an optional device for ACS 600 frequency converters which enables the connection of the ACS 600 to a PROFIBUS system. The ACS 600 frequency converter is considered as a slave in the PROFIBUS system. Through the NPBA-01 PROFIBUS Adapter Module it is possible to:

• Give control commands to the drive
  (Start, Stop, Direction, Run enable)

• Feed a motor speed or torque reference to the drive

• Give a process actual value or a process reference to the PID controller of the drive

• Read status information and actual values from the drive

• Change drive parameter values

• Reset a drive fault.

The PROFIBUS commands supported by the ACS 600 and the NPBA-01 PROFIBUS Adapter Module are discussed in Chapter 6.

The adapter module is mounted onto a standard mounting rail inside or outside the converter unit, depending on converter type and configuration.
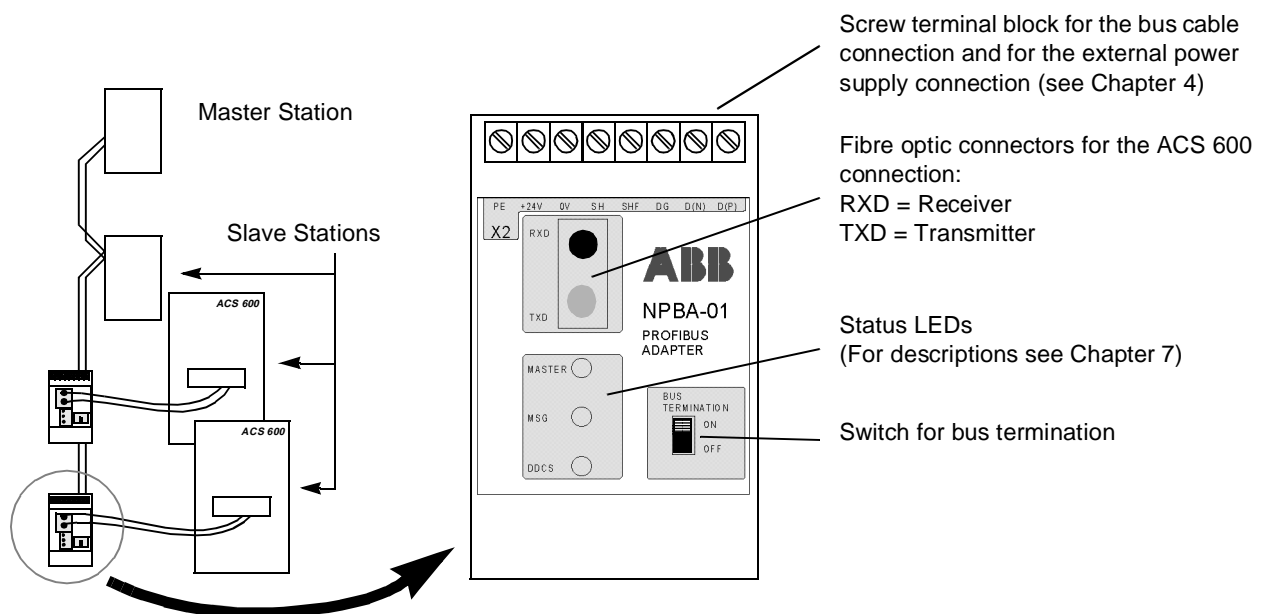

Figure 2-1 The construction of the PROFIBUS link and the NPBA-01 Adapter Module.

Compatibility   The NPBA-01 is compatible with ACS 600 DTC software version 2.7 and higher. The DTC software version can be checked by reading Parameter 33.1.

The NPBA-01 is compatible with all master stations that support the PROFIBUS-FMS and PROFIBUS-DP protocols.

Delivery Check   The option package for the PROFIBUS Adapter Module contains:

- PROFIBUS Adapter Module, Type NPBA-01
- Three pairs (six pieces) of fibre optic cables for connecting the adapter to the ACS 600
- Mounting rail
- NGND-01 Grounding Card
- *Installation and Start-up Guide for NPBA-01*.

Warranty   See the *ACS 600 Installation & Start-up Manual* for information on the warranty.