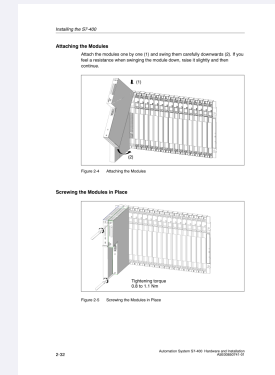


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Siemens 6ES7416-3FS07-0AB0
SIMATIC S7-400 CPU 416F-3 PN/DP



PRODUCT	6ES7416-3FS07-0AB0
FAMILY	SIMATIC S7-400
FUNCTION	SIMATIC S7-400 CPU 416F-3 PN/DP
STATUS	Verify exact configuration

Prepared by Amikon Limited from Siemens CPU manual A5E00850746-AN, 03/2023; Hardware and Installation A5E00850741-01. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Program work memory	8 MB
Data work memory	8 MB
Typical bit-operation time	12.5 ns
Integrated network interfaces	MPI/DP and two-port PROFINET
5 V backplane current	1.3 A typical; 1.6 A maximum
24 V backplane current	300 mA maximum; 150 mA per DP interface
Maximum power loss	8 W

02 MOUNTING AND CONNECTION

- Establish the required process safe state and isolate the S7-400 station before exchanging the CPU.
- Preserve the controlled standard and safety project and capture diagnostic and service information.
- Reserve the documented two-slot position and verify the system power supply and backplane load budget.
- Attach the CPU carefully, swing it into place and tighten its fixing screws to 0.8-1.1 Nm.
- Restore the approved memory-card and network configuration while preventing unintended machine operation.

OFFICIAL INSTALLATION REFERENCE

Installing the S7-400

Attaching the Modules

Attach the modules one by one (1) and swing them carefully downwards (2). If you feel a resistance when swinging the module down, raise it slightly and then continue.

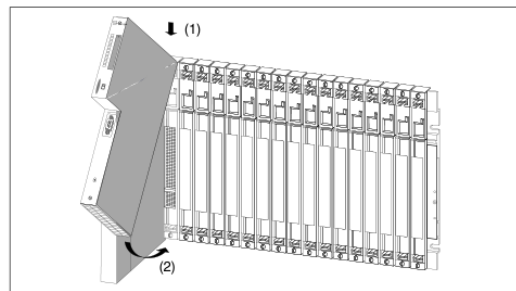


Figure 2-4 Attaching the Modules

Screwing the Modules in Place

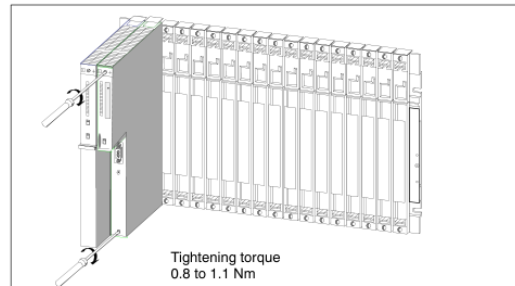


Figure 2-5 Screwing the Modules in Place

04

CABLE ROUTING AND CONNECTION

- Preserve the controlled standard and safety project and capture diagnostic and service information.
- Reserve the documented two-slot position and verify the system power supply and backplane load budget.
- Attach the CPU carefully, swing it into place and tighten its fixing screws to 0.8-1.1 Nm.
- Restore the approved memory-card and network configuration while preventing unintended machine operation.
- Complete CPU, network and F-I/O diagnostics and required safety acceptance before the authorized restart.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Review CPU, network and F-I/O diagnostics and complete required acceptance before restoring automatic operation.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	Siemens CPU manual A5E00850746-AN, 03/2023; Hardware and Installation A5E00850741-01
Product record	6ES7416-3FS07-0AB0
Manufacturer	Siemens
Support	INFO@AMIKON.CN