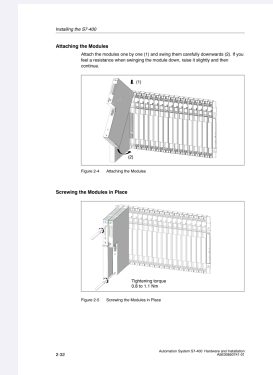


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Siemens 6ES7414-3FM07-0AB0
SIMATIC S7-400 CPU 414F-3 PN/DP



PRODUCT	6ES7414-3FM07-0AB0
FAMILY	SIMATIC S7-400
FUNCTION	SIMATIC S7-400 CPU 414F-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	2 MB
Data work memory	2 MB
Typical bit-operation time	18.75 ns
Integrated network interfaces	X1 MPI/DP and X5 PROFINET with two ports
Optional interface module	IF 964-DP; 6ES7964-2AA04-0AB0
5 V backplane current	1.3 A typical; 1.6 A maximum
24 V backplane current	300 mA maximum; 150 mA per DP interface

02 MOUNTING AND CONNECTION

- Qualified personnel must place the process in its required safe state and isolate the station before physical work.
- Back up the user program and configuration, then identify all network and external-backup connections.
- Reserve two rack slots; operating voltage is provided by the S7-400 system power supply through the backplane.
- Attach the module and swing it down carefully without force; tighten its top and bottom screws to 0.8-1.1 Nm.
- Restore the identified memory card, optional interface and communication cables with the approved station configuration.

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.

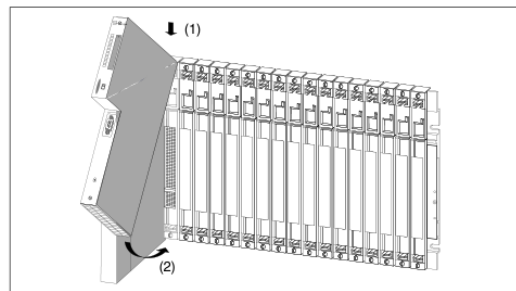


Figure 2-4 Attaching the Modules

Screwing the Modules in Place

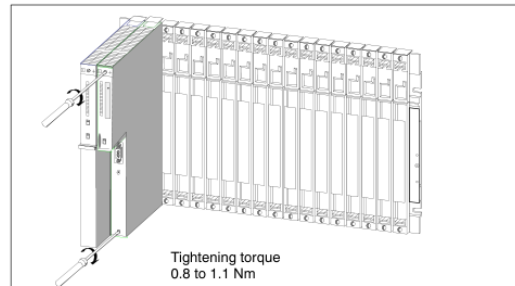


Figure 2-5 Screwing the Modules in Place

04

CABLE ROUTING AND CONNECTION

- Back up the user program and configuration, then identify all network and external-backup connections.
- Reserve two rack slots; operating voltage is provided by the S7-400 system power supply through the backplane.
- Attach the module and swing it down carefully without force; tighten its top and bottom screws to 0.8-1.1 Nm.
- Restore the identified memory card, optional interface and communication cables with the approved station configuration.
- Check CPU and I/O diagnostics and complete the required safety acceptance before an authorized restart.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Verify the restored standard and safety project, I/O diagnostics and authorized restart conditions before releasing the process.
- 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	6ES7414-3FM07-0AB0
Manufacturer	Siemens
Support	INFO@AMIKON.CN