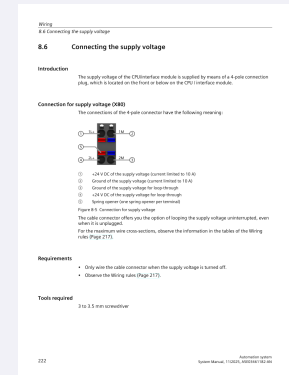


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Siemens 6ES7513-1FL02-0AB0

SIMATIC S7-1500F CPU 1513F-1 PN



PRODUCT	6ES7513-1FL02-0AB0
FAMILY	SIMATIC S7-1500F
FUNCTION	SIMATIC S7-1500F CPU 1513F-1 PN
STATUS	Verify exact configuration

Prepared by Amikon Limited from Siemens datasheet 07/2018; System Manual A5E03461182-AN, 11/2025. 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	450 KB
Data work memory	1.5 MB
Typical bit-operation time	40 ns
PROFINET interface	One X1 interface with two-port IRT switch
Permissible DC supply	19.2 to 28.8 V DC; rated 24 V DC
Maximum input current	0.95 A (07/2018 datasheet)
Typical power loss	5.7 W

02 MOUNTING AND CONNECTION

- Qualified personnel must establish the prescribed safe state and isolate the station supply before work.
- Install the CPU and U connector on the S7-1500 mounting rail; tighten its fixing screw to 1.5 Nm.
- Wire the X80 supply with the documented +24 V and ground assignment; permitted input is 19.2 to 28.8 V DC.
- Reconnect the identified PROFINET cables without changing the approved F-I/O and device assignments.
- Restore the compatible Memory Card and controlled project; check the actual CPU firmware and hardware.

Wiring

8.6 Connecting the supply voltage

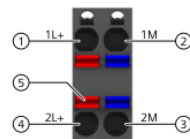
8.6 Connecting the supply voltage

Introduction

The supply voltage of the CPU/interface module is supplied by means of a 4-pole connection plug, which is located on the front or below on the CPU / interface module.

Connection for supply voltage (X80)

The connections of the 4-pole connector have the following meaning:



- ① +24 V DC of the supply voltage (current limited to 10 A)
- ② Ground of the supply voltage (current limited to 10 A)
- ③ Ground of the supply voltage for loop-through
- ④ +24 V DC of the supply voltage for loop-through
- ⑤ Spring opener (one spring opener per terminal)

Figure 8-5 Connection for supply voltage

The cable connector offers you the option of looping the supply voltage uninterrupted, even when it is unplugged.

For the maximum wire cross-sections, observe the information in the tables of the Wiring rules (Page 217).

Requirements

- Only wire the cable connector when the supply voltage is turned off.
- Observe the Wiring rules (Page 217).

Tools required

3 to 3.5 mm screwdriver

04

CABLE ROUTING AND CONNECTION

- Install the CPU and U connector on the S7-1500 mounting rail; tighten its fixing screw to 1.5 Nm.
- Wire the X80 supply with the documented +24 V and ground assignment; permitted input is 19.2 to 28.8 V DC.
- Reconnect the identified PROFINET cables without changing the approved F-I/O and device assignments.
- Restore the compatible Memory Card and controlled project; check the actual CPU firmware and hardware.
- Complete diagnostics, required safety acceptance and controlled restart checks before returning to operation.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Verify the approved standard and safety configuration, F-I/O diagnostics and required acceptance checks before restart.
- Record the installed order number and baseline operating condition.

06

CONTROLLED DOCUMENTS

Official source	Siemens datasheet 07/2018; System Manual A5E03461182-AN, 11/2025
Product record	6ES7513-1FL02-0AB0
Manufacturer	Siemens
Support	INFO@AMIKON.CN