

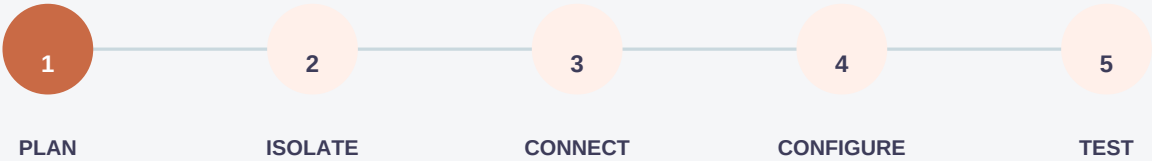
6ES7417-4HL04-0AB0

SIMATIC S7-400H CPU 417H Central Processing Unit

CONTROLLED ENGINEERING COPY

Siemens 6ES7417-4HL04-0AB0 is a SIMATIC S7-400H CPU 417H central processing unit with 20 MB work memory. It provides MPI/DP, PROFIBUS DP and two synchronization-module interfaces for redundant S7-400H control.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6ES7417-4HL04-0AB0
Manufacturer	Siemens
System family	SIMATIC S7-400H
Record scope	Installation, application and verification



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01 PRE-INSTALLATION PLAN

- 1

Confirm the complete 6ES7417-4HL04-0AB0 marking and the documented SIMATIC S7-400H CPU 417H Central Processing Unit execution.
- 2

Place the machine, controller and affected process in the approved maintenance state.
- 3

Isolate all hazardous energy and prove the safe state before disconnecting hardware.
- 4

Record the installed position, every terminal or port, and the active engineering configuration.
- 5

Verify the exact electrical, interface and environmental limits in the manufacturer evidence.

MATCHED HARDWARE

- Siemens 6ES7417-4HL04-0AB0 with complete article identity
- Matched SIMATIC S7-400H host or connected equipment
- Documented power, signal and communication interfaces
- Approved configuration, diagnostics and acceptance record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	6ES7417-4HL04-0AB0 recorded
Physical interface	Installed terminals, ports and signal paths matched to the as-found record
Configuration	Approved hardware and engineering configuration restored
Functional proof	Controlled test confirms redundant CPU execution and partner synchronization in a SIMATIC S7-400H station

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Product designation	CPU 417H for SIMATIC S7-400H
Integrated interfaces	4
Interface 1	MPI / PROFIBUS DP
Interface 2	PROFIBUS DP
Synchronization interfaces	2, for synchronization modules
Integrated work memory	20 MB
Program memory share	10 MB
Data memory share	10 MB
System role	Redundant S7-400H central processing unit
Lifecycle note	Discontinued replacement part without a named successor

RELATED PRODUCT PAGES

1 Siemens 6SL3352-6TE33-8AA3

2 Siemens 6RY1803-0DA04

3 Siemens C98043-A7106-L4

4 Siemens 6RY1803-0DA03

5 Siemens C98043-A7106-L1

6 Siemens 6SE7090-0XX87-4AH0

7 Siemens C98043-A7109-L100

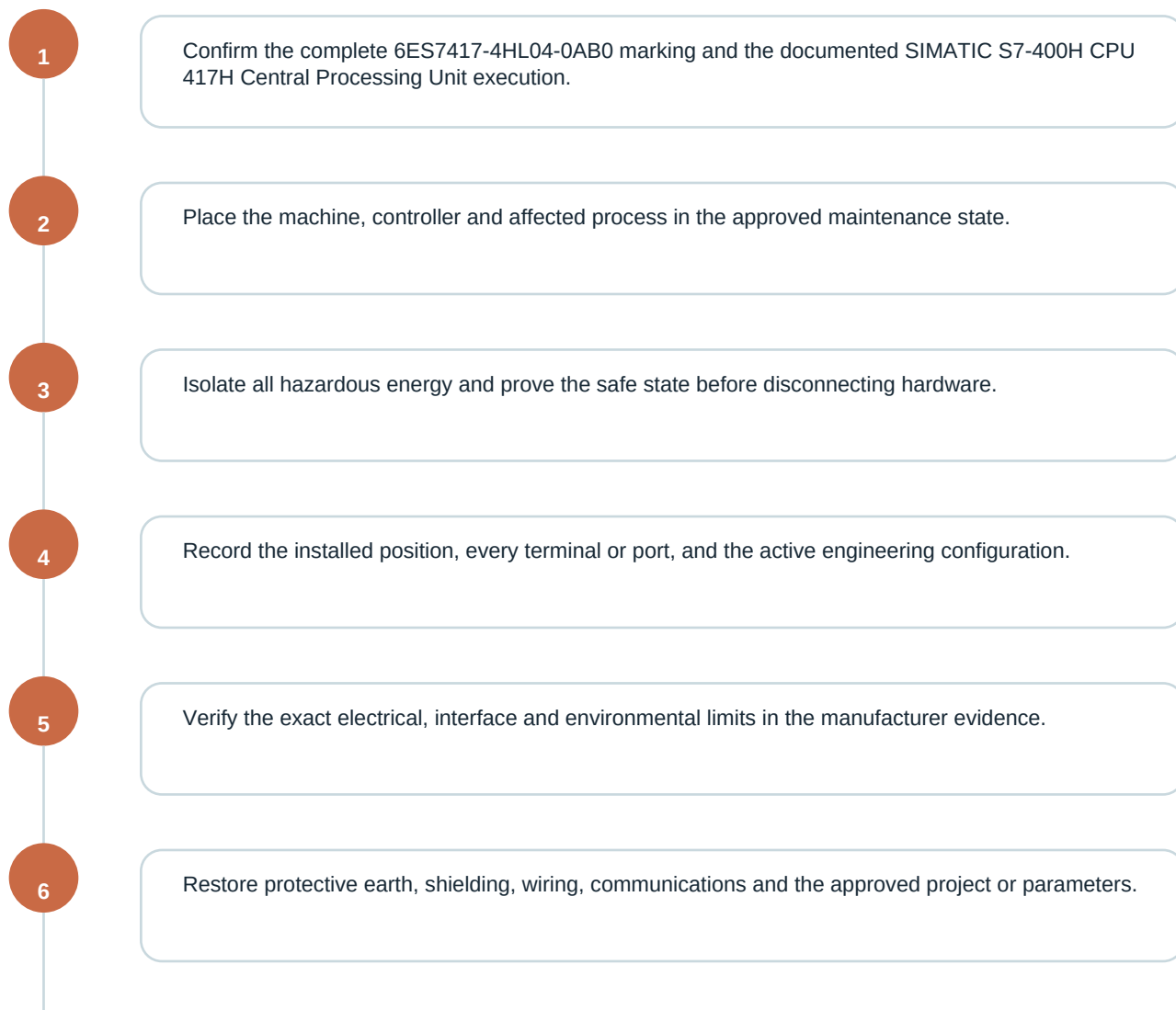
8 Siemens 6RY1803-0CM20

9 Siemens C98043-A7107-L4

FIELD NOTE

Confirm 6ES7417-4HL04-0AB0, its exact SIMATIC S7-400H host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	6ES7417-4HL04-0AB0
Physical interface	Installed terminals, ports and signal paths matched to the as-found record
Configuration	Approved hardware and engineering configuration restored
Functional proof	Controlled test confirms redundant CPU execution and partner synchronization in a SIMATIC S7-400H station

04 RETURN-TO-SERVICE RECORD

- ☐
- Verify the exact electrical, interface and environmental limits in the manufacturer evidence.
- ☐
- Restore protective earth, shielding, wiring, communications and the approved project or parameters.
- ☐
- Energize under control and review all device, rack, network and process diagnostics.
- ☐
- Complete a controlled functional test of redundant CPU execution and partner synchronization in a SIMATIC S7-400H station before release.

VERIFICATION RECORD

PRODUCT IDENTITY	6ES7417-4HL04-0AB0
INSTALLED POSITION	Documented SIMATIC S7-400H position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐
- Verify the exact electrical, interface and environmental limits in the manufacturer evidence.
- ☐
- Restore protective earth, shielding, wiring, communications and the approved project or parameters.
- ☐
- Energize under control and review all device, rack, network and process diagnostics.
- ☐
- Complete a controlled functional test of redundant CPU execution and partner synchronization in a SIMATIC S7-400H station before release.

SOURCE IDENTIFIERS

Siemens SiePortal exact-article record for 6ES7417-4HL04-0AB0 | Official manufacturer evidence verified 28 September 2026