

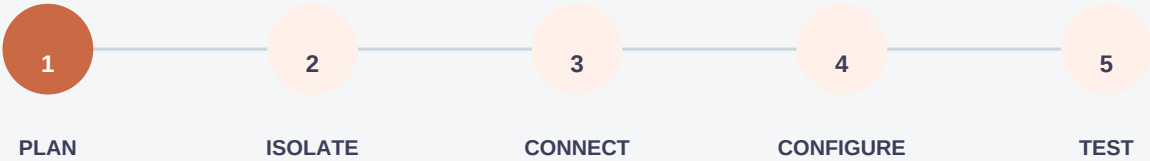
6ES7417-5HT06-0AB0

SIMATIC S7-400H CPU 417-5H PN/DP

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Siemens 6ES7417-5HT06-0AB0 is a SIMATIC S7-400H CPU 417-5H PN/DP for S7-400H and S7-400F/FH systems. It provides 32 MB integrated work memory and five interfaces for MPI/DP, PROFIBUS DP, PROFINET and redundant synchronization.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6ES7417-5HT06-0AB0
Manufacturer	Siemens
System family	Siemens SIMATIC S7-400H and S7-400F/FH
Record scope	Installation, application and verification



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01 PRE-INSTALLATION PLAN

- 1

Confirm the exact 6ES7417-5HT06-0AB0 marking and documented SIMATIC S7-400H CPU 417-5H PN/DP execution.
- 2

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

Isolate power and field interfaces; prove the safe state before disconnecting hardware.
- 4

Record every port, terminal, module position, configuration file and active diagnostic.
- 5

Verify the exact supply, interface and environmental limits in the Siemens data sheet.

MATCHED HARDWARE

- Siemens 6ES7417-5HT06-0AB0 with complete article identity
- Matched Siemens host system or industrial network
- Documented field, power and communication interfaces
- Approved project, diagnostics and acceptance record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	6ES7417-5HT06-0AB0 recorded
Physical interface	Installed ports, terminals and communications matched to the as-found record
Configuration	Approved Siemens hardware and network configuration restored
Functional proof	Controlled test confirms redundant and fail-safe control execution, communications and synchronization in an S7-400H or S7-400F/FH station

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Product type	CPU 417-5H PN/DP
System compatibility	SIMATIC S7-400H and S7-400F/FH
Hardware functional status	1
Firmware version	V6.0
Integrated interfaces	5
Interface arrangement	1 x MPI/DP, 1 x DP, 1 x PN, 2 x synchronization module interfaces
Integrated work memory	32 MB
Program work memory	16 MB
Data work memory	16 MB
Programming package	STEP 7 V5.5 SP2 with HF1 or later
CiR synchronization time, basic load	60 ms
Power supply	Via SIMATIC system power supply
Backplane current at 5 V DC, typical	1.6 A

RELATED PRODUCT PAGES

1 [Siemens A5E03915589](#)

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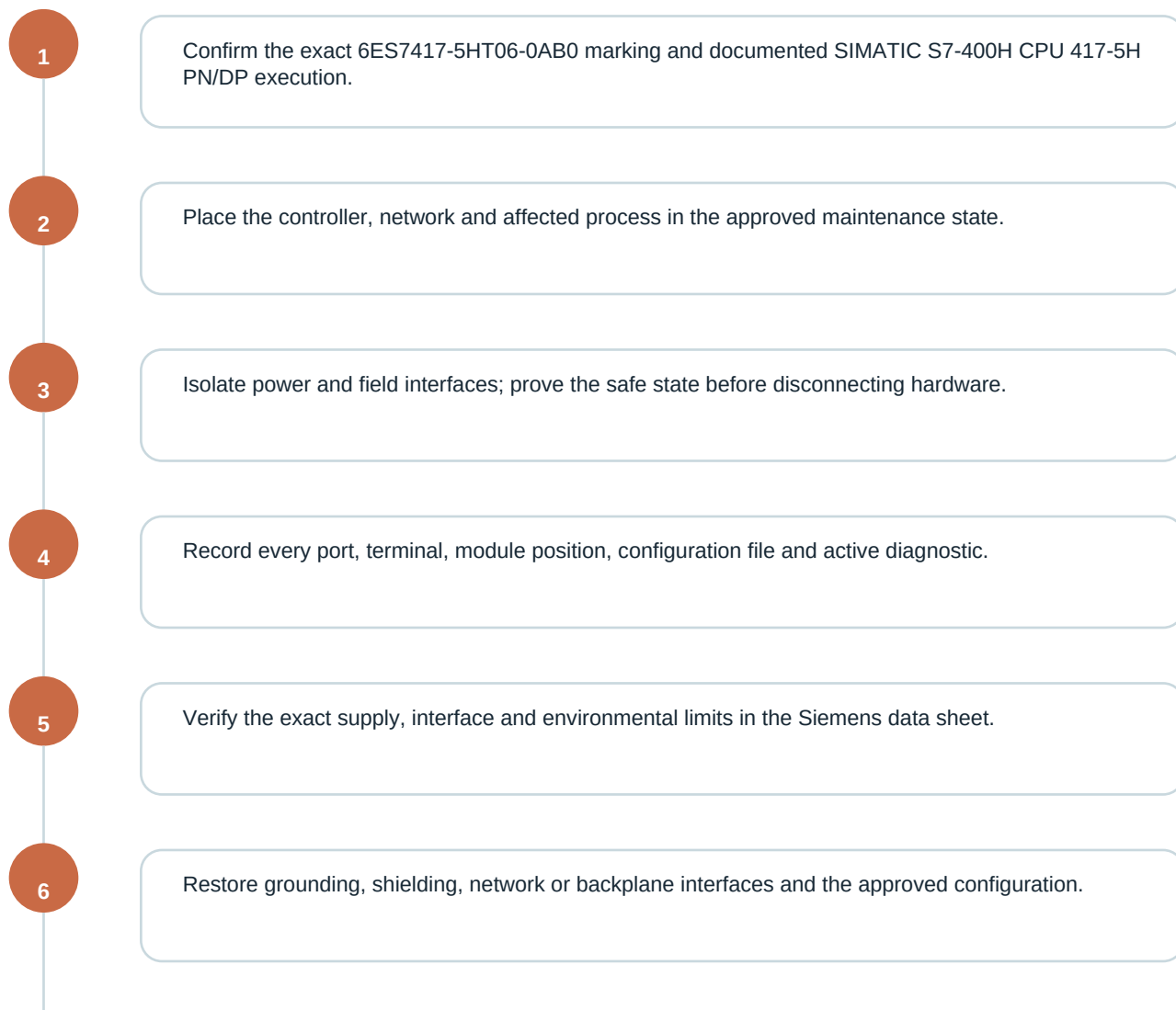
8 [Siemens A5E00297628](#)

9 [Siemens 6SN1145-1BB00-0FA1](#)

FIELD NOTE

Confirm 6ES7417-5HT06-0AB0, its exact Siemens SIMATIC S7-400H and S7-400F/FH host, power source, installed position, interfaces, firmware or project configuration, diagnostics and controlled acceptance evidence before release.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	6ES7417-5HT06-0AB0
Physical interface	Installed ports, terminals and communications matched to the as-found record
Configuration	Approved Siemens hardware and network configuration restored
Functional proof	Controlled test confirms redundant and fail-safe control execution, communications and synchronization in an S7-400H or S7-400F/FH station

04 RETURN-TO-SERVICE RECORD

- ☐
- Verify the exact supply, interface and environmental limits in the Siemens data sheet.

☐☐☐

VERIFICATION RECORD

PRODUCT IDENTITY	6ES7417-5HT06-0AB0
INSTALLED POSITION	Documented Siemens rack or control-cabinet position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐
- Verify the exact supply, interface and environmental limits in the Siemens data sheet.

☐☐☐

SOURCE IDENTIFIERS

Siemens Data Sheet 6ES7417-5HT06-0AB0, dated 28 January 2026 | Siemens official exact-article data sheet, verified 28 September 2026