

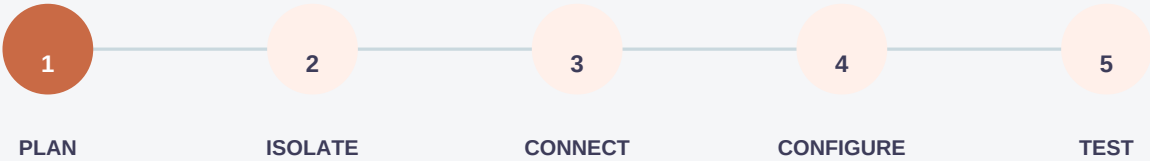
6GK7342-5DA02-0XE0

CP 342-5 PROFIBUS Communication Processor

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Siemens 6GK7342-5DA02-0XE0 is the cp 342-5 profibus communication processor for SIMATIC S7-300 / SIMATIC NET. It provides PROFIBUS DP and FDL communication for an S7-300 station in the documented installation.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6GK7342-5DA02-0XE0
Manufacturer	Siemens
System family	SIMATIC S7-300 / SIMATIC NET
Record scope	Installation, application and verification



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01 PRE-INSTALLATION PLAN

1

Confirm the complete 6GK7342-5DA02-0XE0 marking and the documented CP 342-5 PROFIBUS Communication Processor 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 6GK7342-5DA02-0XE0 with complete article identity
- Matched SIMATIC S7-300 / SIMATIC NET host or connected equipment
- Documented power, signal and communication interfaces
- Approved configuration, diagnostics and acceptance record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	6GK7342-5DA02-0XE0 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 PROFIBUS DP and FDL communication for an S7-300 station

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Product designation	CP 342-5
Host system	SIMATIC S7-300
Network	PROFIBUS
Supported roles	DP master and DP slave
Additional service	FDL SEND/RECEIVE
Maximum transmission rate	12 Mbit/s
Firmware release documented	V4.0
Engineering software	STEP 7 V5.1 SP2 or higher
Configuration download	MPI or PROFIBUS
Module replacement	Possible without PG when configuration is stored in the CPU

RELATED PRODUCT PAGES

1 Siemens 6GK7243-2AX01-0XA0

2 Siemens 6GK1543-1AA01

3 Siemens 6GK1162-3AA00

4 Siemens 6GK1503-3CD00

5 Siemens 6GK7542-1AX10-0XE0

6 Siemens 6GK5004-1BD00-1AB2

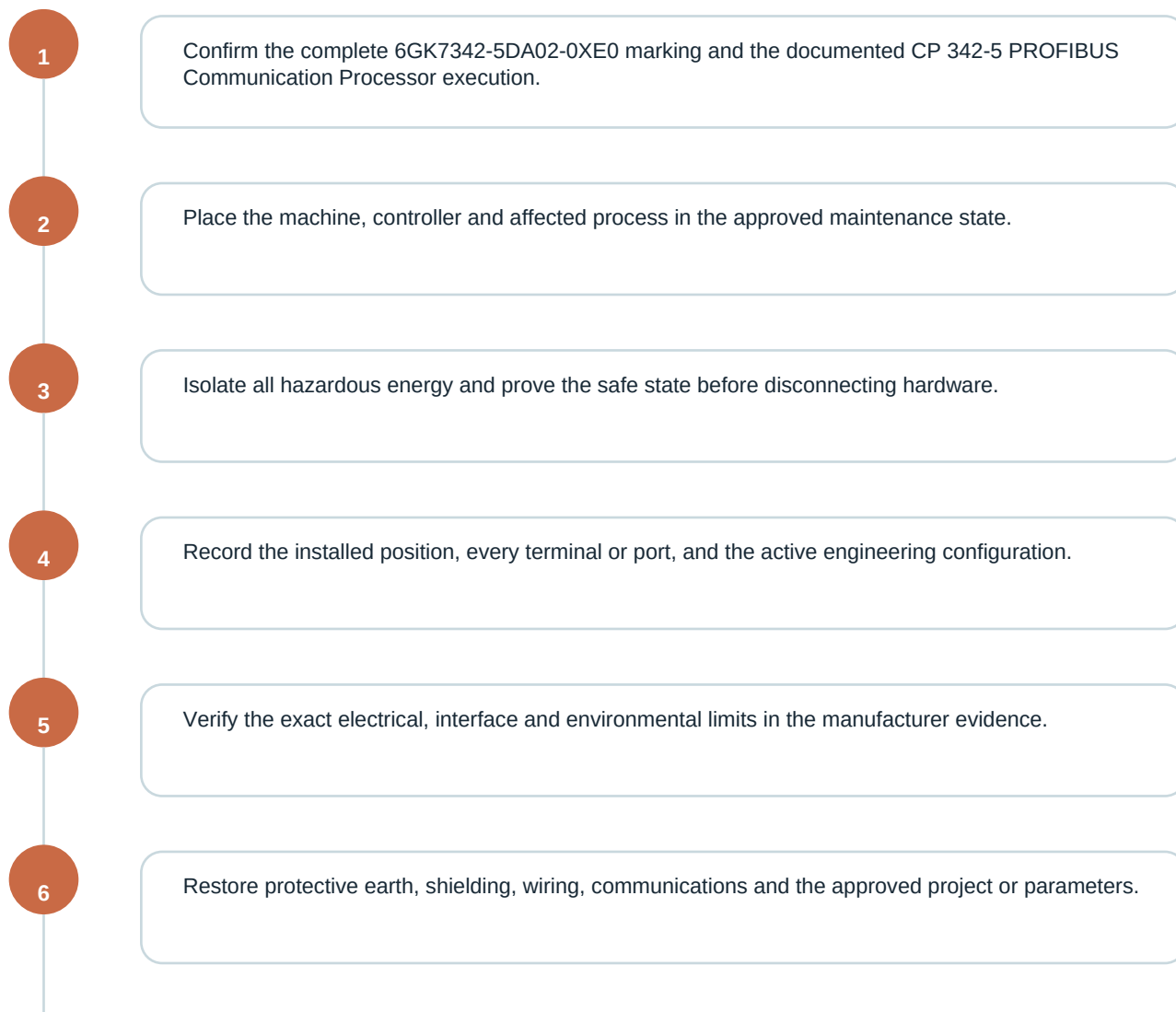
7 Siemens 6GK5206-2BD00-2AC2

8 Siemens 6GK5208-0BA00-2AB2

FIELD NOTE

Confirm 6GK7342-5DA02-0XE0, its exact SIMATIC S7-300 / SIMATIC NET 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	6GK7342-5DA02-0XE0
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 PROFIBUS DP and FDL communication for an S7-300 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 PROFIBUS DP and FDL communication for an S7-300 station before release.

VERIFICATION RECORD

PRODUCT IDENTITY	6GK7342-5DA02-0XE0
INSTALLED POSITION	Documented SIMATIC S7-300 / SIMATIC NET 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 PROFIBUS DP and FDL communication for an S7-300 station before release.

SOURCE IDENTIFIERS

Siemens CP 342-5 equipment manual and version history | Official manufacturer evidence verified 28 September 2026