

6DD1607-0AA2

SIMATIC S7-400 FM458-1 DP Application Module

CONTROLLED ENGINEERING COPY

Siemens 6DD1607-0AA2 is an FM458-1 DP application module for SIMATIC S7-400 arithmetic, closed-loop and open-loop control tasks. It provides PROFIBUS DP, eight digital inputs, backed SRAM and expansion-module support.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6DD1607-0AA2
Manufacturer	Siemens
System family	SIMATIC FM458-1 DP / D7-SYS
Record scope	Installation, application and verification

1

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4

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PLAN

ISOLATE

CONNECT

CONFIGURE

TEST

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01 PRE-INSTALLATION PLAN

- 1

Confirm the complete 6DD1607-0AA2 marking and the documented SIMATIC S7-400 FM458-1 DP Application Module 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 6DD1607-0AA2 with complete article identity
- Matched SIMATIC FM458-1 DP / D7-SYS host or connected equipment
- Documented power, signal and communication interfaces
- Approved configuration, diagnostics and acceptance record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	6DD1607-0AA2 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 high-performance arithmetic and configurable closed-loop or open-loop control with PROFIBUS DP in an S7-400 station

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Product designation	FM458-1 DP application module
Host system	SIMATIC S7-400
Primary tasks	Arithmetic, closed-loop and open-loop control
PROFIBUS DP	Provided
Distributed-I/O and drive connection	Supported
Digital inputs	8 on connector X2
Rated digital-input voltage	24 V DC
Memory backup	SRAM backup provided
Backup battery current	15 microampere maximum
Required rack slots	1
Hardware clock	Provided, 500 ms resolution
Typical current consumption	1.5 A
Maximum current consumption	3 A

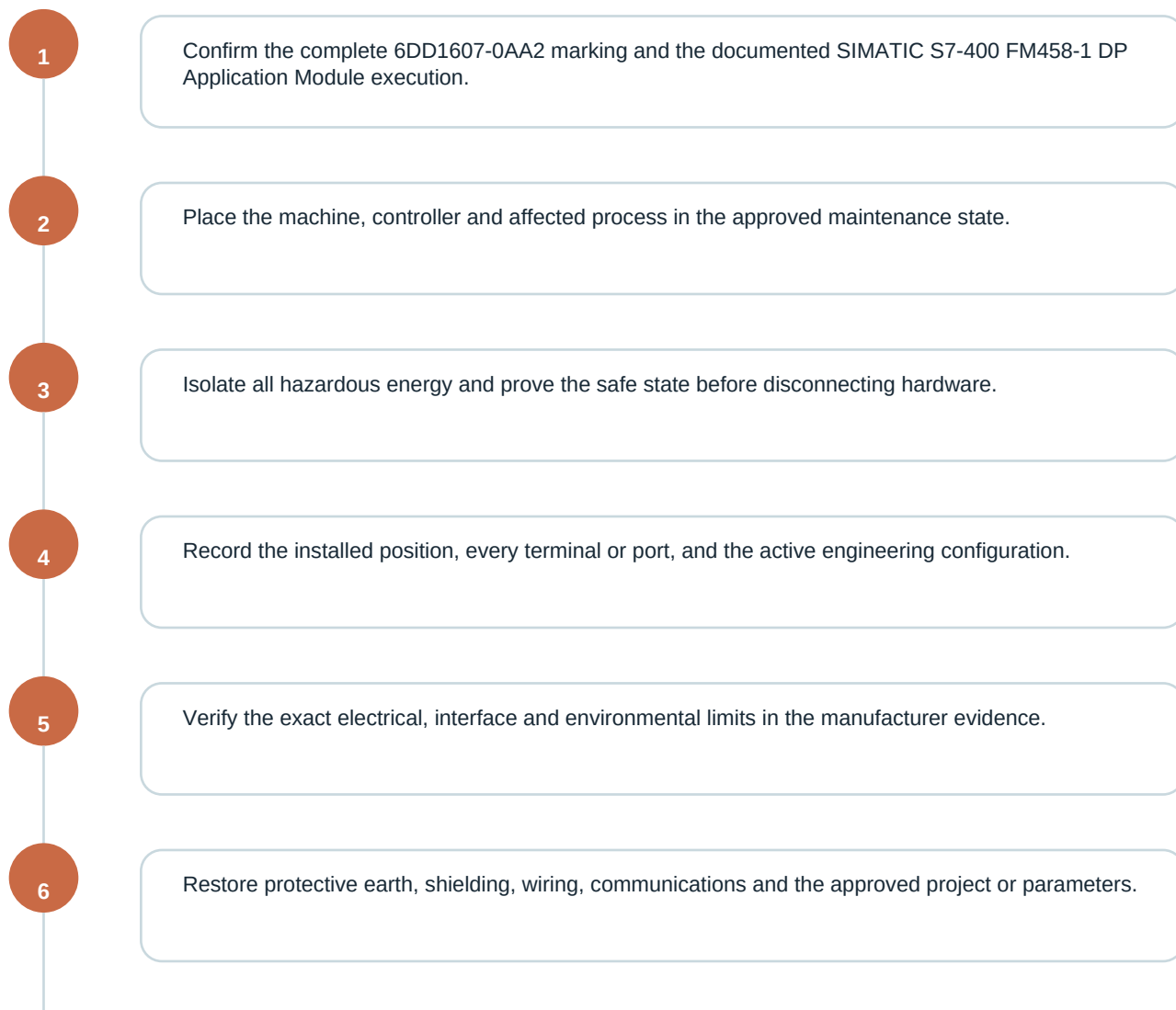
RELATED PRODUCT PAGES

- 1 Bently Nevada 330851-01-000-020-10-00-00
- 2 Bently Nevada 330876-01-50-01-05
- 3 Bently Nevada 330106-05-30-10-02-IN
- 4 Bently Nevada 330180-90-CN
- 5 Bently Nevada 330106-05-30-10-02-00
- 6 Bently Nevada 330104-01-05-50-02-00
- 7 Bently Nevada 330910-00-24-10-01-CN
- 8 Bently Nevada 330909-00-25-10-02-00
- 9 Bently Nevada 330908-21-35-10-02-00

FIELD NOTE

Confirm 6DD1607-0AA2, its exact SIMATIC FM458-1 DP / D7-SYS 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	6DD1607-0AA2
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 high-performance arithmetic and configurable closed-loop or open-loop control with PROFIBUS DP in an S7-400 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 high-performance arithmetic and configurable closed-loop or open-loop control with PROFIBUS DP in an S7-400 station before release.

VERIFICATION RECORD

PRODUCT IDENTITY	6DD1607-0AA2
INSTALLED POSITION	Documented SIMATIC FM458-1 DP / D7-SYS 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 high-performance arithmetic and configurable closed-loop or open-loop control with PROFIBUS DP in an S7-400 station before release.

SOURCE IDENTIFIERS

Siemens ST 400 catalog exact-article technical specifications for 6DD1607-0AA2 | Official manufacturer evidence verified 28 September 2026