

6AV6642-0BA01-1AX0

SIMATIC TP177B PN/DP Color Touch Panel

CONTROLLED ENGINEERING COPY

Siemens 6AV6642-0BA01-1AX0 is a SIMATIC TP177B PN/DP color touch panel with MPI/PROFIBUS DP, Ethernet 10/100, RS485/RS422 and USB interfaces. It is configured with WinCC flexible 2005 and provides a memory-card slot and printer interface.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6AV6642-0BA01-1AX0
Manufacturer	Siemens
System family	SIMATIC HMI TP177B
Record scope	Installation, application and verification

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PLAN

ISOLATE

CONNECT

CONFIGURE

TEST

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



01 PRE-INSTALLATION PLAN

- 1

Confirm the complete 6AV6642-0BA01-1AX0 marking and the documented SIMATIC TP177B PN/DP Color Touch Panel 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 6AV6642-0BA01-1AX0 with complete article identity
- Matched SIMATIC HMI TP177B host or connected equipment
- Documented power, signal and communication interfaces
- Approved configuration, diagnostics and acceptance record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	6AV6642-0BA01-1AX0 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 operator visualization and touch control on an MPI, PROFIBUS DP or Industrial Ethernet automation station

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Product designation	TP177B PN/DP Color
Display technology	STN color display, 256 colors
Operator method	Touch operation
Fieldbus protocol	MPI / PROFIBUS DP
Serial interfaces	RS485 / RS422
USB interface	Provided
Industrial Ethernet	10 / 100 Mbit/s
Printer interface	Provided
Memory-card slot	MM card
Configuration software	WinCC flexible 2005
Lifecycle note	Discontinued product with successor 6AV6642-0BA01-1AX1

RELATED PRODUCT PAGES

1 ABB FEIP-21 3AXD50000192793

2 ABB FEN-21 68679303

3 ABB FPBA-01-M

4 ABB NBRA-657C 59006410

5 ABB PM511V08 3BSE011180R1

6 ABB PM566-TP-ETH
1SAP121500R0071

7 ABB PFTK101A YM222001-UC

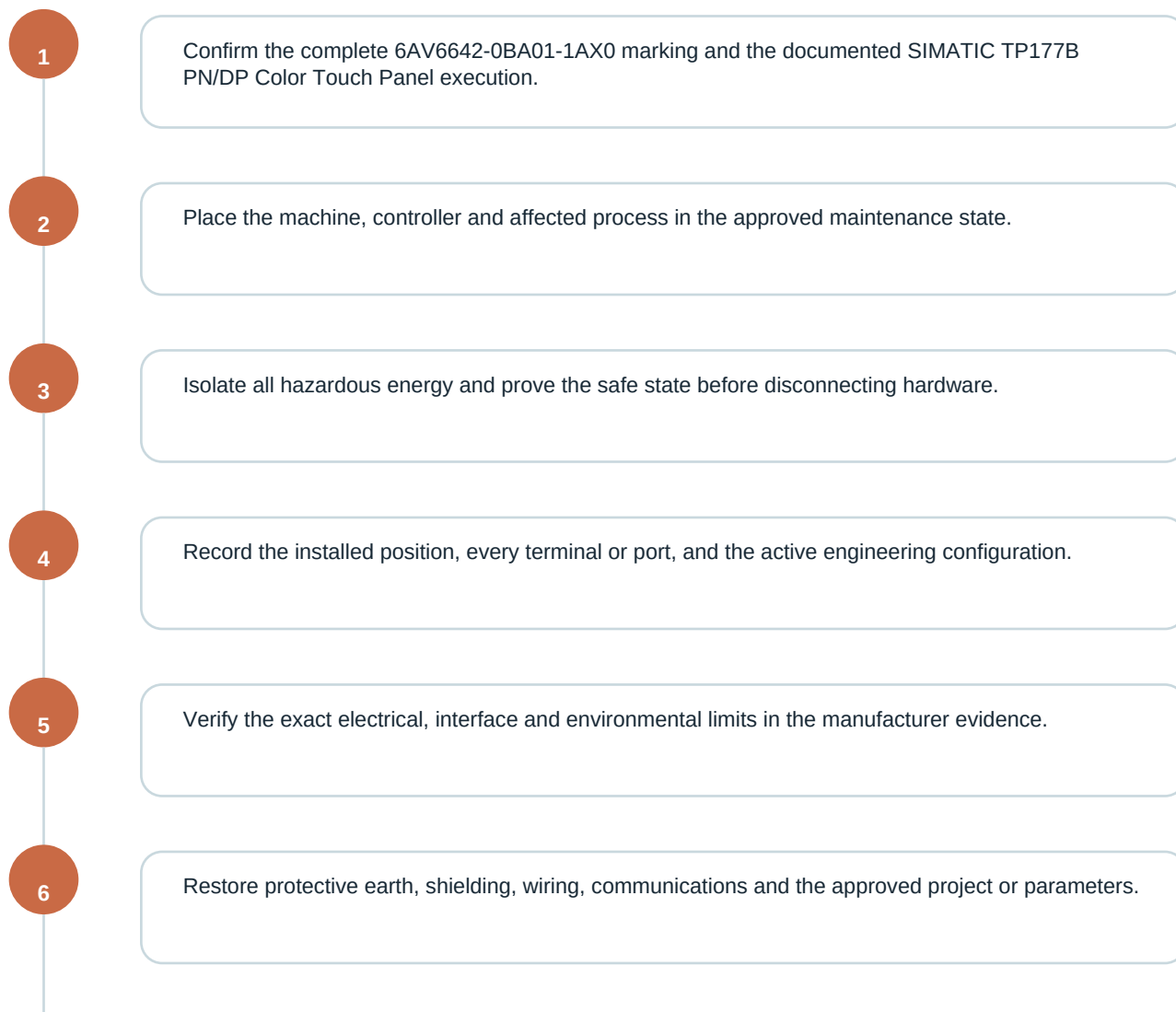
8 ABB DSTD196 3BSE004725R1

9 ABB DLM02

FIELD NOTE

Confirm 6AV6642-0BA01-1AX0, its exact SIMATIC HMI TP177B 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	6AV6642-0BA01-1AX0
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 operator visualization and touch control on an MPI, PROFIBUS DP or Industrial Ethernet automation 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 operator visualization and touch control on an MPI, PROFIBUS DP or Industrial Ethernet automation station before release.

VERIFICATION RECORD

PRODUCT IDENTITY	6AV6642-0BA01-1AX0
INSTALLED POSITION	Documented SIMATIC HMI TP177B 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 operator visualization and touch control on an MPI, PROFIBUS DP or Industrial Ethernet automation station before release.

SOURCE IDENTIFIERS

Siemens SiePortal exact-article record for 6AV6642-0BA01-1AX0 | Official manufacturer evidence verified 28 September 2026