

INDUSTRIAL AUTOMATION PRODUCT

6AV6545-0CA10-0AX0

SIMATIC TP270 6-inch Touch Panel

Siemens 6AV6545-0CA10-0AX0 is a SIMATIC TP270 6-inch touch panel with a 5.7-inch STN color display and 2 MB configuration memory. It is configurable with ProTool from version V6.0.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMATIC HMI TP270
Part number	6AV6545-0CA10-0AX0
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install 6AV6545-0CA10-0AX0 only in the documented SIMATIC HMI TP270 position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and touch-based process visualization and operator control in a configured SIMATIC automation system before service release.

System Role and Architecture

Siemens 6AV6545-0CA10-0AX0 is a SIMATIC TP270 6-inch touch panel with a 5.7-inch STN color display and 2 MB configuration memory. It is configurable with ProTool from version V6.0.

FUNCTION 1
TP270 6-inch touch panel

FUNCTION 2
5.7-inch STN color display

FUNCTION 3
2 MB configuration memory

FUNCTION 4
ProTool V6.0 or later configuration

RELATED APTER POWER PAGES

1 Siemens 6SL3300-1AH32-5BA0

2 Siemens 6SE7041-8GK85-0LA0

3 Siemens 6SE7041-8EK85-1MA0

4 Siemens 6SE7037-0EJ84-1JC2

5 Siemens 6SE7036-1EE85-1HA0

6 Siemens C98043-A1682-L1

7 Siemens A5E36717803

8 Siemens A5E36717808

9 Siemens A5E00297630

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	SIMATIC HMI TP270
02	Matched SIMATIC HMI TP270 host or field system
03	Documented power, signal, communication and protective interfaces
04	Approved engineering configuration and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	SIMATIC HMI TP270
Interface role	touch-based process visualization and operator control in a configured SIMATIC automation system
Field / power context	documented SIMATIC HMI TP270 installation
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

1 Confirm the complete 6AV6545-0CA10-0AX0 marking and the documented SIMATIC TP270 6-inch 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.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product designation	SIMATIC TP270 6-inch Touch Panel	Message capacity	Up to 4000 messages
Display size	5.7 inch	Bit messages	Up to 2000
Display technology	STN color display	Analog messages	Up to 2000
Operator method	Touch operation	Alarm classes	32
Configuration memory	2 MB	Process values per message	8
Configuration software	ProTool V6.0 or later	SIMATIC S7 status/control	Supported

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ENGINEERING BOUNDARY

Confirm 6AV6545-0CA10-0AX0, its exact SIMATIC HMI TP270 host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 6AV6545-0CA10-0AX0 marking and the documented SIMATIC TP270 6-inch 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.

Applications and Engineering Context

Machine visualization

Displays process values, alarms and operating screens for a documented machine.

SIMATIC S7 operation

Supports status and control functions with the configured S7 controller.

Alarm handling

Presents bit and analog messages using the approved alarm-class design.

Legacy TP270 replacement

Restores the archived ProTool project and validates every operator function.

TECHNICAL NOTE

Install 6AV6545-0CA10-0AX0 only in the documented SIMATIC HMI TP270 position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and touch-based process visualization and operator control in a configured SIMATIC automation system before service release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6AV6545-0CA10-0AX0 recorded
Host / carrier	SIMATIC HMI TP270
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 touch-based process visualization and operator control in a configured SIMATIC automation system

IMPORTANT NOTICE

Confirm 6AV6545-0CA10-0AX0, its exact SIMATIC HMI TP270 host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Siemens 6SL3300-1AH32-5BA0

View Siemens 6SL3300-1AH32-5BA0 page

2

Siemens 6SE7041-8GK85-0LA0

View Siemens 6SE7041-8GK85-0LA0 page

3

Siemens 6SE7041-8EK85-1MA0

View Siemens 6SE7041-8EK85-1MA0 page

4

Siemens 6SE7037-0EJ84-1JC2

View Siemens 6SE7037-0EJ84-1JC2 page

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Siemens 6SE7036-1EE85-1HA0

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MANUFACTURER SOURCE RECORD

Siemens product data sheet and official TP270 conformity record for 6AV6545-0CA10-0AX0 | Official manufacturer evidence verified 28 September 2026

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.