

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.

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
SIMATIC HMI TP270

PART
6AV6545-0CA10-0AX0

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

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www.apterpower.com



PRODUCT OVERVIEW

Siemens 6AV6545-0CA10-0AX0 provides touch-based process visualization and operator control in a configured SIMATIC automation system in a documented SIMATIC HMI TP270 installation.



TP270 6-inch touch panel



5.7-inch STN color display



2 MB configuration memory



ProTool V6.0 or later configuration

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7 Siemens 39EAMCBN-A5E00282025-05	8 Siemens 6SE6440-2UD31-1CA1	9 Siemens 6SE7033-5GJ84-1JC0

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented cabinet position, power source, interfaces and approved engineering configuration. Commissioning restores that architecture and verifies the affected control or communication function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product designation	SIMATIC TP270 6-inch Touch Panel
Display size	5.7 inch
Display technology	STN color display
Operator method	Touch operation
Configuration memory	2 MB
Configuration software	ProTool V6.0 or later

PARAMETER	VALUE
Message capacity	Up to 4000 messages
Bit messages	Up to 2000
Analog messages	Up to 2000
Alarm classes	32
Process values per message	8
SIMATIC S7 status/control	Supported

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[Siemens 6SE6440-2UD31-1CA1](#)

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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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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.

PRODUCT PRECAUTIONS

- 1 Confirm the complete 6AV6545-0CA10-0AX0 marking and the documented SIMATIC TP270 6-inch Touch
- 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.
- 6 Restore protective earth, shielding, wiring, communications and the approved project or
- 7 Energize under control and review all device, rack, network and process diagnostics.
- 8 Complete a controlled functional test of touch-based process visualization and operator control in a

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ENGINEER FAQ

Q1 Why must the exact product designation value be confirmed when commissioning 6AV6545-0CA10-0AX0?

The official exact-article record identifies 6AV6545-0CA10-0AX0 as SIMATIC TP270 6-inch Touch Panel; match the full marking before installation.

Q2 What does the official record specify for 6AV6545-0CA10-0AX0 display size?

For 6AV6545-0CA10-0AX0, the official exact-article evidence specifies display size as 5.7 inch. Record the installed condition and test the affected function before release.

Q3 What does the official record specify for 6AV6545-0CA10-0AX0 display technology?

For 6AV6545-0CA10-0AX0, the official exact-article evidence specifies display technology as STN color display. Record the installed condition and test the affected function before release.

Q4 What does the official record specify for 6AV6545-0CA10-0AX0 operator method?

For 6AV6545-0CA10-0AX0, the official exact-article evidence specifies operator method as Touch operation. Record the installed condition and test the affected function before release.

Q5 Which engineering record must be preserved for 6AV6545-0CA10-0AX0 regarding configuration memory?

For 6AV6545-0CA10-0AX0, the official exact-article evidence specifies configuration memory as 2 MB. Record the installed condition and test the affected function before release.

Q6 What configuration detail must be preserved for 6AV6545-0CA10-0AX0 regarding configuration software?

For 6AV6545-0CA10-0AX0, the official exact-article evidence specifies configuration software as ProTool V6.0 or later. Record the installed condition and test the affected function before release.

Q7 Why must the exact message capacity value be confirmed when commissioning 6AV6545-0CA10-0AX0?

For 6AV6545-0CA10-0AX0, the official exact-article evidence specifies message capacity as Up to 4000 messages. Record the installed condition and test the affected function before release.

Q8 Why must the exact bit messages value be confirmed when commissioning 6AV6545-0CA10-0AX0?

For 6AV6545-0CA10-0AX0, the official exact-article evidence specifies bit messages as Up to 2000. Record the installed condition and test the affected function before release.

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9 Siemens 6SE7033-5GJ84-1JC0

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

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