

Product dashboard

Siemens 6AV6640-0CA01-0AX0 is a SIMATIC HMI TP 170micro touch panel with a 5.7-inch four-blue-mode STN LCD, 320 x 240 resolution and 256 Kbyte working memory.

Exact model

6AV6640-0CA01-0AX0

Product type

Touch Operator Panel

System family

SIMATIC HMI TP 170micro

Functional role

HMI Operator Panel

PARAMETER	DOCUMENTED VALUE
Exact article	6AV6640-0CA01-0AX0
Product type	SIMATIC HMI TP 170micro
Display type	STN LCD
Active screen	5.7 inch
Resolution	320 x 240 pixels
Display mode	4 Blue Mode
Operator input	Touch screen
Working memory	256 Kbytes

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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6AV6640-0CA01-0AX0

System overview

At the machine interface, Siemens 6AV6640-0CA01-0AX0 presents the configured operator screens and touch commands while maintaining the established panel supply and controller communication path.

- Machine operation**

Presents configured process values, commands and status screens at the equipment.
- Alarm interaction**

Displays the retained alarm views and accepts authorized operator acknowledgement.
- Setpoint entry**

Provides touch-driven entry fields for approved controller variables.
- Maintenance visualization**

Supports local observation of tags and service screens during controlled diagnostics.

SYSTEM POSITION		RECORD
Installed identity		6AV6640-0CA01-0AX0

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Technical data map

PARAMETER	VERIFIED VALUE
Exact article	6AV6640-0CA01-0AX0
Product type	SIMATIC HMI TP 170micro
Display type	STN LCD
Active screen	5.7 inch
Resolution	320 x 240 pixels
Display mode	4 Blue Mode
Operator input	Touch screen
Working memory	256 Kbytes
Memory card	Not provided
Rated supply	24 V DC
Permissible supply	20.4 to 28.8 V DC
Maximum transient	35 V for 500 ms
Minimum transient interval	50 s
Typical current	Approximately 240 mA
CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	local machine visualization and touch-based operator interaction

Technical evidence record: Siemens TP 170micro, TP 170A, TP 170B and OP 170B Operating Instructions, edition 03/2004,

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Applications and precautions

1

Confirm the complete 6AV6640-0CA01-0AX0 marking and TP 170micro identity.

2

Back up the installed HMI project and record its communication settings.

3

Place the machine and every touch-command path in the approved maintenance state.

4

Isolate the 24 V DC supply and label the controller communication connection.

5

Inspect the panel seal, mounting clamps, protective earth and cable retention.

6

Verify the 20.4-28.8 V DC supply range before energization.

7

Restore the project, complete touch calibration and review all alarm screens.

8

Test representative tags, commands and interlocks before service release.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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Buyer and engineering FAQ

Which display is used by Siemens 6AV6640-0CA01-0AX0?

The TP 170micro uses a 5.7-inch STN LCD with four-blue-mode presentation.

What resolution does Siemens 6AV6640-0CA01-0AX0 provide?

The active display resolution is 320 x 240 pixels.

How is Siemens 6AV6640-0CA01-0AX0 operated?

Operator input is through the integrated touch screen.

How much working memory does Siemens 6AV6640-0CA01-0AX0 contain?

The TP 170micro provides 256 Kbytes of working memory.

Related Apter Power pages

[Siemens 6AV6640-0CA11-0AX1](#)

[Siemens 6AV6640-0BA11-0AX0](#)

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