

Siemens

6AV6640-0CA01-0AX0

Touch Operator Panel

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.

System position

Exact identity

6AV6640-0CA01-0AX0

System family

SIMATIC HMI TP 170micro

Functional role

HMI Operator Panel

Release basis

Recorded test and diagnostics

Keep the hardware and configuration identities together

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.

IDENTITY / RESOURCE	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

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

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Interfaces and integration

Define the installed role

At the machine interface, Siemens 6AV6640-OCA01-0AX0 presents the configured operator screens and touch commands while maintaining the established

Exact article	6AV6640-OCA01-0AX0
Product type	SIMATIC HMI TP 170micro
Display type	STN LCD

Map the host relationship

The complete 6AV6640-OCA01-0AX0 identity is matched to the host position, companion hardware and retained engineering record before any connection is disturbed.

Host	SIMATIC HMI TP 170micro
Primary role	local machine visualization and touch-based operator
Acceptance	Diagnostics and functional response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Electrical	Power, field wiring and protective earth
Communication	Address, network and companion configuration
Configuration	Switches, parameters, project and revision
Release	Controlled test with retained result

Configuration continuity

Retain the recorded SIMATIC HMI TP 170micro position, connected interfaces and configuration

Acceptance evidence

Release 6AV6640-OCA01-0AX0 only after diagnostics and a controlled functional result are

Technical resource bands

Only values tied to the complete product identity are listed. Installation-specific settings remain governed by the controlled site record.

PARAMETER	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

PARAMETER	VALUE
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
Maximum constant current	Approximately 900 mA
Backlight half-brightness life	Typically 50,000 h

Identity decision

Accept only the complete 6AV6640-0CA01-0AX0 marking and the recorded hardware execution.

Host decision

Confirm the receiving SIMATIC HMI TP 170micro position and every companion component.

Interface decision

Compare mechanical fit, power, field wiring, communication and protective earth.

Release decision

Record diagnostics and a controlled test of local machine visualization and touch-based operator interaction before handover.

Engineering boundary

Use 6AV6640-0CA01-0AX0 only after the exact host, installed position, companion parts, protection measures and commissioning record have been matched. Do not borrow ratings from a similar-looking variant.

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Controls and service logic

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.

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Read 6AV6640-0CA01-0AX0 and all companion markings
2. Compare	Host, position, connections, settings and revision
3. Install	Restore wiring, shielding, retention and protection
4. Verify	Review diagnostics and execute controlled function test

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Engineering decisions

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.

Which supply range applies to Siemens 6AV6640-0CA01-0AX0?

Use 24 V DC within the permitted 20.4 to 28.8 V DC range.

What transient limit is stated for Siemens 6AV6640-0CA01-0AX0?

The stated maximum transient is 35 V for 500 ms, with at least 50 seconds between transients.

Related Apter Power pages

[Siemens 6AV6642-0BA01-1AX0](#)

[Siemens 6AV6644-0AB01-2AX0](#)

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