6AV6643-0AA01-1AX0

01 / Product overview

TP 277 Touch Panel

Siemens 6AV6643-0AA01-1AX0 is a six-inch SIMATIC TP 277 operator panel. It presents machine and process information through the configured HMI project and allows operators to work with approved screens, alarms and controls at the installation point. Its actual interface behavior follows the loaded WinCC flexible project and connected automation system.

Product identity

Product type	TP 277 Touch Panel
Product series	SIMATIC HMI TP 277
Engineering environment	WinCC flexible project dependent

Technical specifications

Product type	Six-inch touch operator panel
HMI family	SIMATIC TP 277
Engineering environment	WinCC flexible project dependent
Migration context	TP700 Comfort is a project migration path, not a drop-in equivalent

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Applications and service decisions

Machine operator stations

Use the configured TP 277 screens for local machine status, commands and alarm acknowledgement.

Process skids

Display process values and operator prompts where a TP 277 project is integrated with the controller.

Match the complete unit

Check the full 6AV6643-0AA01-1AX0 marking and any hardware revision against the installation record.

Isolate the installation

Follow the approved SIMATIC HMI TP 277 isolation and stored-energy procedure before handling the unit.

Preserve the connection record

Label and photograph the tp 277 touch panel connections, terminations and mounting before removal.

Legacy HMI maintenance

Restore a matching TP 277 panel within an existing, documented SIMATIC HMI installation.

Panel modernization

Plan a TP 277 to Comfort Panel migration with project, cutout and communication validation.

Preserve the HMI project

Back up the WinCC flexible project, communication settings and operator permissions before exchange.

Protect the hardware

Use suitable electrostatic-discharge and mechanical protection while handling connectors, boards and retaining parts.

Verify the affected functions

After fitting 6AV6643-0AA01-1AX0, check diagnostics and the relevant I/O or process response under the site acceptance plan.

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03 / Selection and technical reference

What is the product type of Siemens 6AV6643-0AA01-1AX0?

Six-inch touch operator panel.

What is the hmi family of Siemens 6AV6643-0AA01-1AX0?

SIMATIC TP 277.

What is the engineering environment of Siemens 6AV6643-0AA01-1AX0?

WinCC flexible project dependent.

What is the migration context of Siemens 6AV6643-0AA01-1AX0?

TP700 Comfort is a project migration path, not a drop-in equivalent.

How is Siemens 6AV6643-0AA01-1AX0 checked after installation?

Check diagnostics and the affected tp 277 touch panel functions under the approved site test procedure.

What determines compatibility of Siemens 6AV6643-0AA01-1AX0 with the installed system?

The complete marking, fitted interfaces and approved SIMATIC HMI TP 277 configuration determine the applicable installation.

Technical basis

Siemens SIMATIC HMI product lifecycle overview; Siemens Comfort Panels migration instructions.

Related Siemens references

Siemens A5E30947477-H4

Siemens 6FC5370-4AM20-0AA0

Siemens 6FC5370-8AA20-0AA0

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