Siemens 6AV2123-2JB03-0AX0

01 Key and Touch Operator Panel / system role

Product function

Siemens 6AV2123-2JB03-0AX0 supports project-assigned operator keys alongside touchscreen objects, with controller interlocks remaining responsible for permitted actions.

Selected configuration

The panel combines touch interaction with assignable keys, allowing an application to separate frequent commands from screen navigation. The meaning of each key is determined by the HMI project and must be verified against the machine interlocks.

Integration checkpoints

- Machine operator stations
- Ethernet HMI connections
- Portrait or landscape installations
- Basic Panel modernization

Operator interaction	Touchscreen with eight assignable function keys
Communication boundary	Configured HMI-to-controller connection
Engineering role	Basic Panel runtime and project configuration

The Ethernet interface supports the configured controller connection, but the panel is not a general PROFINET IO device merely because its interface is described as PROFINET. Use the supported HMI driver and engineering configuration for the target controller.

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02 Technical operating envelope

Display	9-inch TFT; 65536 colors
Resolution	800 x 480 pixels
Function keys	8
Touch technology	Analog resistive
Rated supply	24 V DC
Supply range	19.2-28.8 V DC

Rated consumption	230 mA
Typical power input	5.5 W
User-data memory	10 MB
Ethernet interfaces	1
USB interfaces	1; media up to 16 GB
Engineering baseline	WinCC Basic V13 / STEP 7 Basic V13

Use the exact hardware execution with the supported system configuration and installation conditions.

Why can 6AV2123-2JB03-0AX0 lose accurate time after extended storage without power?

Clock retention is finite. Restore the intended time synchronization and compare event timestamps after return to service. A panel that retains its project can still require clock correction.

How should portrait installation of 6AV2123-2JB03-0AX0 be validated?

Confirm the allowed mounting arrangement and configure the project for the intended orientation. Inspect readability and access to all controls, then verify cabinet temperature and sealing. Rotating the hardware alone does not produce a usable operator layout.

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03 System integration and applications

Machine operator stations

Combine touch objects with project-assigned keys.

Ethernet HMI connections

Exchange supported process data with the configured controller.

Portrait or landscape installations

Use the supported mounting orientation and matching project layout.

Basic Panel modernization

Assess functions and driver support before project migration.

System and supply context

6AV2123-2JB03-0AX0 belongs to the SIMATIC HMI installation described by the technical reference. Connected equipment and accessories must be included explicitly in the configured assembly.

Application boundary

The following uses describe supported engineering roles; they do not establish interchangeability with another model or remove application-specific validation.

What should be tested when function keys on 6AV2123-2JB03-0AX0 are reassigned?

Check each key in the relevant screen context, including permissions and PLC interlocks. A correct label does not prove that the intended command tag is used. Test with hazardous actions inhibited before releasing normal operation.

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04 Engineering selection decisions

Why is 6AV2123-2JB03-0AX0 not interchangeable with an arbitrary PROFINET IO device?

Its Ethernet HMI connection is distinct from PROFINET IO-device functionality. Configure a supported controller driver and HMI connection. Do not add it to an IO topology as though it were a distributed input/output module.

Can a higher-tier HMI project be moved directly to 6AV2123-2JB03-0AX0?

Only after checking the Basic Panel feature set and device compatibility. Review unsupported functions, memory usage and drivers, then validate the compiled project on the target. Similar screen size does not establish functional equivalence.

What separates a USB-media problem from a failed 6AV2123-2JB03-0AX0 restore?

Confirm media compatibility and the expected backup format, then check that the backup matches the panel and runtime. File copying and successful device detection are separate steps from a valid project restoration.

How can a 6AV2123-2JB03-0AX0 command be traced when the PLC receives no action?

Verify the active connection, tag address, user permission and controller interlock in sequence. Observe a controlled command at both the panel and PLC. A responsive touch object does not demonstrate that the process command crossed the communication boundary.

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05 Configuration boundary and references

Lifecycle and support

The current manufacturing and manufacturer-support stage for this exact model is not confirmed.

Replacement assessment

Compare the complete 6AV2123-2JB03-0AX0 identity, installed connections and configuration before selecting a replacement. Runtime data, alarm behavior and recipe handling are constrained by the Basic Panel feature set. Preserve the device type and project compatibility when migrating from another panel; matching display resolution alone does not preserve application behavior.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; use it together with the applicable manufacturer instructions.

Technical basis

Siemens product data sheet, 6AV2123-2JB03-0AX0.

Related product navigation

- Siemens 6AV6640-0BA11-0AX0
- Siemens 6AV6640-0CA11-0AX1
- Siemens 6AV6647-0AG11-3AX0

Related products for separate application assessment; verify the platform and interface. No interchangeability is implied.

Product enquiries