

Siemens 6AV6643-0AA01-1AX0 Manual

Brand	Siemens
Product Series	Sheet15
Product Type	Operator Interface Panel (TP277)

Description

Siemens offers the 6AV6643-0AA01-1AX0 as a robust operator interface panel in the SIMATIC series. Featuring a 5.7-inch TFT display with a resolution of 320 x 240 pixels, this panel ensures clear visual interaction and supports touch functionality.

Technical specifications for 6AV6643-0AA01-1AX0

Manufacturer Siemens

Product Type Operator Interface Panel (TP277)

Product Line SIMATIC

Part Number 6AV6643-0AA01-1AX0

UPC 662643209563

Weight 0.94 lbs (0.43 kg)

Display Technology 5.7-inch TFT with touch functionality

Screen Resolution 320 x 240 pixels (QVGA)

Color Capability 256-color palette

Backlight Durability Estimated 60,000-hour lifespan at 25°C

Touch Interface Resistive analog touch panel

User Storage Capacity 4 MB Flash memory

Processing Unit 32-bit RISC architecture

Connectivity Ports 1x RS422, 1x RS485, 1x Ethernet (RJ45), 1x USB

Supported Communication Compatible with PROFINET, PROFIBUS, MODBUS, TCP/IP

Temperature Range Functional between 0°C and 50°C

Enclosure Protection IP65-rated front panel, IP20 rear panel

Physical Dimensions 212 mm (W) x 156 mm (H) x 45 mm (D)

Description

The Siemens 6AV6643-0AA01-1AX0 is a versatile operator interface panel, known as the TP277, ideal for localized control and monitoring tasks. It comes equipped with a 5.7-inch TFT screen that features a quality resolution of 320 x 240 pixels, delivering sufficient clarity and visibility for operators. With a color capability of 256 hues, the interface offers a straightforward and intuitive user experience.

Durability is emphasized through its backlight, which is rated to last for about 60,000 hours when operating at 25°C. The panel utilizes a resistive analog touch technology for user input, providing responsive interaction with the system. A built-in flash memory capacity of 4 MB offers ample space for user-specific configurations and data.

Powered by a 32-bit RISC architecture, this unit ensures efficient processing for various tasks. Connectivity options are plentiful, featuring ports for RS422, RS485, Ethernet (RJ45), and USB connections. The device supports multiple communication protocols, including PROFINET, PROFIBUS, MODBUS, and TCP/IP, allowing seamless integration into existing industrial networks.

Physical dimensions of the panel measure 212 mm in width, 156 mm in height, and 45 mm in depth, ensuring it fits well in most control environments. Operating efficiently between 0°C and 50°C, it retains functionality in moderate temperature conditions and is

protected by an IP65-rated front panel and an IP20-rated rear panel, safeguarding electronics from environmental factors.

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