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Data sheet 6AV6642-0BA01-1AX0

*** SPARE PART*** SIMATIC TOUCHPANEL TP177B PN/DP STN 265 COLOR-DISPLAY MPI-/PROFIBUS-DP - PROTOCOL RS485-/RS422-/USB - INTERFACE ETHERNET10/100 INTERFACE PRINTER - INTERFACE SLOT FOR MM-CARD CONFIGURABLE WITH WINCC FLEXIBLE 2005

Display	
Design of display	STN
Screen diagonal	5.7 in
Color display	Yes
Number of colors	256
Resolution (pixels)	
● Horizontal image resolution	320 pixel
● Vertical image resolution	240 pixel
Backlighting	
● MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Touch screen
Keyboard	
● System keys	Yes
● Numeric keyboard	Yes
● alphanumeric keyboard	Yes
● hexadecimal keyboard	Yes
● Multi-key operation	No
Touch operation	
● Design as touch screen	Yes; analog, resistive
Connection type	
● Type of connection for mouse/keyboard/barcode reader	USB / USB / -
Installation type/mounting	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	35°
Processor	
Processor type	RISC 32 bit, 200 MHz
Storage	
Type of memory	Flash / RAM
Memory available for user data	2 048 kbyte
Time of day	
Clock	
● Type	Hardware clock, synchronizable, no battery backup
● retentive	No
● synchronizable	Yes
Interfaces	
Interfaces/bus type	RS 232 optional, 1x RS 422, 1x RS 485, 1x Ethernet (RJ45) (max. 12 Mbit/s)
Number of industrial Ethernet interfaces	1
Number of RS 485 interfaces	1
Number of RS 422 interfaces	1
Number of USB interfaces	1; Up to 1 GB
CF card slot	No
Multimedia card/SD card slot	1x Multimedia Card slot, up to 128 MB
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	NEMA 4, NEMA 4x, NEMA 12 (when installed)

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Standards, approvals, certificates	
Certificate of suitability	CE, GL, ABS, BV, DNV, LRS, PRS, FM Class I Div. 2, UL, CSA, cULus, EX-Zone 2/22, Gost-R, C-TICK, NEMA 4, NEMA 4x, NEMA 12
cULus	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
● ATEX Zone 2	Yes
● ATEX Zone 22	Yes
● FM Class I Division 2	Yes
Marine approval	
● Germanischer Lloyd (GL)	Yes
● American Bureau of Shipping (ABS)	Yes
● Bureau Veritas (BV)	Yes
● Det Norske Veritas (DNV)	Yes
● Lloyds Register of Shipping (LRS)	Yes
● Polski Rejestr Statkow (PRS)	Yes
Ambient conditions	
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	60 °C
Relative humidity	
● Operation, max.	90 %
Operating systems	
pre-installed operating system	Windows CE
Configuration	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	
● Configuration tool	WinCC flexible Compact Version 2005 or higher (to be ordered separately)
Languages	
Online languages	
● Number of online/runtime languages	16
Project languages	
● Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Task planner	Yes
Help system	Yes
● Number of characters per info text	70
Message system	
● Number of alarm classes	32
● Number of messages	2 000
● Bit messages	Yes
— Number of bit messages	2 000
● Analog messages	Yes
— Number of analog messages	2 000
● System messages HMI	Yes
● System messages PLC	Yes
● Lines	1
● Number of characters per message	80
● Number of process values per message	8
● Acknowledgment groups	
— Number of acknowledgement groups	99
● Message indicator	Yes
● acoustic feedback	No
● First/last value	Yes

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Recipe management	
● Number of recipes	100
● Data records per recipe	200
● Entries per data record	200
● Recipe memory	32 KB integrated Flash, expandable
Variables	
● Number of variables per device	1 000
● Number of variables per screen	50
● Number of variables	1 000
● Initial values	1 000
● Type Date & Time	1 000
● Limit values	Yes
● Multiplexing	Yes
● Structures	No
Images	
● Number of configurable images	500
● Permanent window/default	Yes
● Start screen configurable	Yes
● Image selection by PLC	Yes
● Image number in the PLC	Yes
Image objects	
● Text objects	2 500 text elements
● Number of I/O fields per image	50
● Number of date/time fields	30
● Index of screen context	No
● Return	Yes
● Graphics object	Bit maps, icons, icon (full-screen), vector graphics
— Icons	500
— Icon (full screen)	50
Complex image objects	
● Status/control	With SIMATIC S7
● dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
— Number of objects per project	500
— Number of curve diagrams per image	5
● Methods	Trend
● Bar graphs	
— Number of bars per chart	5
● Sliders	
— Number of slides per image	0
● Pointer instruments	
— Number of analog indicators per image	0
● Limit value lines	Yes
● Number of alphanumerical fields	1 000
— alphanumeric fields per image	100
● Number of numerical fields	1 000
— numerical fields per image	100
● Number of password fields	1 000
● Number of visible switches per project	1 000
— visible switches per image	100
— hidden switches per image	100
● Number of status switches per project	1 000
— Number of status switches per image	100
● Number of selector switches per project	1 000
— Selector switches per image	100
● Number of decade switches per project	0
— Decade switches per image	0
● Number of signal lamps per project	1 000
— Signal lamps per image	100
Attributes for dynamic objects	

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