MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Amikon cover with selected official Siemens pages

SIMATIC HMI BASIC PANELS

6AV6647-0AH11-3AX0

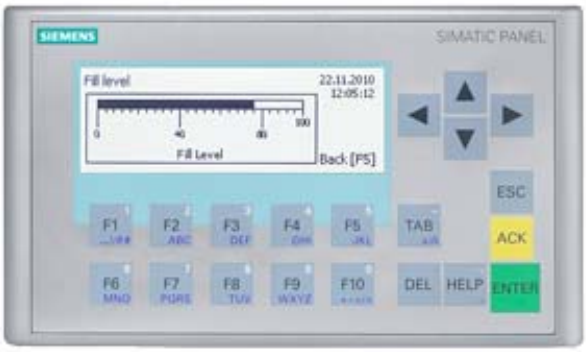
KP300 BASIC MONOCHROME OPERATOR PANEL

OFFICIAL SOURCES

Siemens 6AV6647-0AH11-3AX0 official product document. Selected pages retain their original content, color and aspect ratio.

SIEMENS

productdatablad **6AV6647-0AH11-3AX0**



SIMATIC HMI KP300 BASIC MONO PN,
BASIC PANEL, KEY OPERATION,
3" FSTN LCD DISPLAY,
MONOCHROME BLACK/WHITE,
PROFINET INTERFACE,
CONFIGURATION FROM WINCC BASIC V11/ STEP7 BASIC V11,
CONTAINS OPEN SOURCE SW WHICH IS PROVIDED FREE OF CHARGE FOR DETAILS SEE CD

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Display	
Screen diagonal	3,6 in
Breedte / van het display	87 mm
Hoogte / van het display	31 mm
Aantal kleuren / van het display	4
Resolution (pixels)	
Horizontale beeldresolutie	240
Verticale beeldresolutie	80
Backlighting	
MTBF backlighting (at 25 °C)	50000 h
Backlight dimmable	Nee
Control elements	
Keyboard fonts	
Number of function keys	10
Keys with LED	Nee
System keys	Ja
Numeric/alphabetical input	
Numeric keyboard	Ja
alphanumeric keyboard	Ja

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Touch operation	
Uitvoering van het displays / aanraakbeeldscherm	Nee
Installation type/mounting	
Mounting in portrait format possible	Nee
Mounting in landscape format possible	Ja
Supply voltage	
Type spanning / van de voedingsspanning	DC
Voedingsspanning / bij DC / Bemetingswaarde	24 V
Voedingsspanning / bij DC / nominale waarde / minimaal	19,2 V
Voedingsspanning / bij DC / nominale waarde / maximaal	28,8 V
Input current	
Current consumption (rated value)	0,1 A
I2t-waarde / maximaal	0,5 $A^2 \cdot s$
Power	
Power consumption, typ.	3 W
Processor	
Processor type	
X86	Nee
ARM	Ja
Memory	
Flash	Ja
RAM	Ja
Usable memory for user data	1 Mbyte
Type of output	
Acoustics	
Buzzer	Nee
Speaker	Nee
Time of day	
Clock	
Hardware clock (real-time clock)	Nee
Software clock	Ja
battery-backed	Nee
synchronizable	Ja
Interfaces	
Aantal interfaces / conform RS 485	0
Aantal interfaces / conform USB	0
Number of SD card slots	0
Number of parallel interfaces	0

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Number of 20 mA interfaces (TTY)	0
Number of RS 232 interfaces	0
Number of RS 422 interfaces	0
Aantal interfaces / overige	0
With software interfaces	Nee
Industrial Ethernet	
Aantal interfaces / conform Industrial Ethernet	1
Industrial Ethernet status LED	2
Protocols	
Protocol / wordt ondersteund / PROFINET-protocol	Ja
Protocol / wordt ondersteund / PROFINET IO-protocol	Nee
IRT supported	Nee
Protocol / wordt ondersteund / PROFIBUS-protocol	Nee
MPI	Nee
Protocols (Ethernet)	
Protocol / wordt ondersteund / TCP/IP	Ja
DHCP	Ja
Protocol / wordt ondersteund / SNMP	Ja
DCP	Ja
Protocol / wordt ondersteund / LLDP	Ja
WEB characteristics	
HTTP	Nee
HTML	Nee
Further protocols	
CAN	Nee
MODBUS	Ja
EtherNet/IP	Ja
Interrupts/diagnostics/status information	
Diagnostic messages	
Diagnostic information readable	Nee
EMC	
Emission of radio interference acc. to EN 55 011	
Emission of radio interference acc. to EN 55 011 (limit class A)	Ja
Emission of radio interference acc. to EN 55 011 (limit class B)	Nee
Degree and class of protection	
Beschermingsgraad IP / aan de voorzijde	IP65
Enclosure Type 4 at the front	Ja

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Enclosure Type 4x at the front	Ja
Beschermingsklasse IP	IP20
Standards, approvals, certificates	
Geschiktheidsbewijs / EG-conformiteitsmerkteken	Ja
KC approval	Ja
cULus	Ja
Geschiktheidsbewijs / C-Tick	Ja
Marine approval	
Germanischer Lloyd (GL)	Ja
American Bureau of Shipping (ABS)	Ja
Bureau Veritas (BV)	Ja
Det Norske Veritas (DNV)	Ja
Lloyds Register of Shipping (LRS)	Ja
Nippon Kaiji Kyokai (Class NK)	Ja
Polski Rejestr Statkow (PRS)	Nee
Use in hazardous areas	
ATEX Zone 2	Nee
ATEX Zone 22	Nee
cULus Class I Zone 1	Nee
cULus Class I Zone 2, Division 2	Ja
FM Class I Division 2	Nee
Ambient conditions	
Inbouwpositie	verticaal
maximum permissible angle of inclination without external ventilation	35 °
Operating temperature	
Operation (vertical installation)	
in vertical mounting position, minimum	0 °C
in vertical mounting position, maximum	50 °C
Operation (max. tilt angle)	
at maximum tilt angle, minimum	0 °C
at maximum tilt angle, maximum	40 °C
Storage/transport temperature	
min.	-20 °C
max.	60 °C
Relative humidity	
Relatieve luchtvochtigheid / tijdens de werking / maximaal	90 %
Operating systems	
Windows CE	Nee

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proprietary	Ja
Executable with configuration operating system	
other	Nee
Configuration	
Message indicator	Ja
With alarm logging system (incl. buffer and acknowledgment)	Ja
Process value display (output)	Ja
Process value default (input) possible	Ja
Recipe administration	Ja
Configuration software	
STEP 7 Basic (TIA Portal)	Ja
STEP 7 Professional (TIA Portal)	Ja
WinCC flexible Compact	Nee
WinCC flexible Standard	Nee
WinCC flexible Advanced	Nee
WinCC Basic (TIA Portal)	Ja
WinCC Comfort (TIA Portal)	Ja
WinCC Advanced (TIA Portal)	Ja
WinCC Professional (TIA Portal)	Ja
Languages	
Online languages	
Number of online/runtime languages	5
Project languages	
Languages per project	32
Project languages	
D	Ja
GB	Ja
F	Ja
I	Ja
E	Ja
Chinese traditional	Ja
Chinese simplified	Ja
DK	Ja
FIN	Ja
GR	Ja
J	Ja
KP/ROK	Ja
NL	Ja
N	Ja

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PL	Ja
P	Ja
RUS	Ja
S	Ja
CZ	Ja
SK	Ja
TR	Ja
H	Ja
Functionality under WinCC (TIA Portal)	
Libraries	Ja
Task planner	
time-controlled	Nee
task-controlled	Ja
Help system	
Number of characters per info text	320
Message system	
Number of alarm classes	32
Number of bit messages	200
Number of analog messages	15
System messages HMI	Ja
Number of characters per message	80
Number of process values per message	8
Message indicator	Ja
Message buffer	
Number of entries	256
Circulating buffer	Ja
retentive	Ja
maintenance-free	Ja
Recipe administration	
Number of recipes	5
Data records per recipe	20
Entries per data record	20
Size of internal recipe memory	40 kbyte
Recipe memory expandable	Nee
Variables	
Number of variables per device	250
Number of variables per screen	30
Limit values	Ja
Multiplexing	Ja

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Structures	Nee
Arrays	Ja
Images	
Number of configurable images	50
Permanent window/default	Ja
Global image	Ja
Start screen configurable	Ja
Image selection by PLC	Ja
Image number in the PLC	Ja
Image objects	
Number of objects per image	30
Text fields	Ja
I/O fields	Ja
Graphic I/O fields (graphics list)	Ja
Symbolic I/O fields (text list)	Ja
Date/time fields	Ja
Switch	Ja
Buttons	Ja
Graphic display	Ja
Icons	Ja
Geometric objects	Ja
Complex image objects	
Number of complex objects per screen	5
Alarm view	Ja
Trend view	Ja
User view	Ja
Status/control	Nee
Sm@rtClient view	Nee
Recipe view	Ja
f(x) trend view	Nee
System diagnostics view	Nee
Media Player	Nee
Bar graphs	Ja
Sliders	Nee
Pointer instruments	Nee
Analog/digital clock	Nee
Lists	
Number of text lists per project	150
Number of entries per text list	30

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Number of graphics lists per project	100
Number of entries per graphics list	30
Archiving	
Number of archives per device	0
Security	
Number of user groups	50
Number of user rights	32
Number of users	50
Password export/import	Nee
SIMATIC Logon	Nee
Character sets	
Keyboard fonts	
US English	Ja
Fonts	
Tahoma	Ja
Arial	Nee
Courier New	Nee
WinCC flexible Standard	Ja
Ideographic languages	Ja
Font size freely scalable	Nee
Additional character sets can be loaded	Nee
Transfer (upload/download)	
MPI/PROFIBUS DP	Nee
USB	Nee
Ethernet	Ja
using external storage medium	Nee
Process coupling	
S7-1200	Ja
S7-1500	Ja
S7-200	Ja
S7-300/400	Ja
LOGO!	Ja
WinAC	Ja
SINUMERIK	Nee
SIMOTION	Nee
Allen Bradley (EtherNet/IP)	Ja
Allen Bradley (DF1)	Nee
Mitsubishi (MC TCP/IP)	Ja
Mitsubishi (FX)	Nee

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OMRON (FINS TCP)	Nee
OMRON (LINK/Multilink)	Nee
Modicon (Modbus TCP/IP)	Ja
Modicon (Modbus)	Nee
Service tools/configuration aids	
Clean screen	Nee
Touch calibration	Nee
Backup/Restore manually	Ja
Backup/Restore automatically	Nee
Simulation	Ja
Device switchover	Ja
Delta transfer	Nee
I/O/Options	
I/O devices	
Printer	Nee
Multimedia Card	Nee
SD card	Nee
USB memory	Nee
Mechanics/material	
Type of housing (front)	
Plastic	Ja
Aluminum	Nee
Stainless steel	Nee
Dimensions	
Width of the housing front	165 mm
Height of housing front	97 mm
Mounting cutout/device depth (W x H x D)	
Mounting cutout, width	149 mm
Mounting cutout, height	82 mm
Inbouwdiepte	30 mm
Weights	
Weight without packaging	0,25 kg
Weight incl. packaging	0,38 kg
Status	7-jul-2014

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