SIEMENS

Data sheet 6AV7863-1MA10-2AA0



Figure similar

SIMATIC IFP1200 V2 extended; 12" multi-touch display (16:10) with 1280x800 pixel resolution; built-in unit for 24 V DC, display port interface, can be placed up to 100 m away HDBaseT; USB on the rear side; standard design

General information	
Product type designation	IFP1200 V2
Short designation	Flat Panel 12" multi-touch ext.
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	12.1 in
Screen diagonal [cm]	30.7 cm
Display width	261.1 mm
Display height	163.2 mm
On Screen Display (OSD) configuration	No
Number of colors	16 777 216; 24 bit
Viewing angle	176° x 176°
Resolution (pixels)	
● Image resolution	1 280 x 800
● Horizontal image resolution	1 280 pixel
● Vertical image resolution	800 pixel
● Pixel size, horizontal	0.204 mm
● Pixel size, vertical	0.204 mm
General features	
● Brightness/contrast	400 cd/m² / 800:1
● Detachable from computer unit	100 m; HDBaseT protocol
● Luminance	400 cd/m²
Backlighting	
● Type of backlighting	LED
● MTBF backlighting (at 25 °C)	70 000 h; At 25°C
● Backlight dimmable	Yes; 0-100 %
Control elements	
Input device	
● Integrated mouse cursor control	Yes; Also externally via USB
Touch operation	
● Design as touch screen	Yes
● Design as multi-touch screen	Yes; Projective-capacitive
● Monitor keyboard	Yes
Installation type/mounting	
Design	Built-in unit
Front mounting	Yes
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes

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Built-in unit	Yes; Portrait mode possible
maximum permitted forward tilt angle from vertical	35°
maximum permitted backward tilt angle from vertical	35°
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V; PELV / SELV floating
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	0.65 A
Current consumption, max.	1 A
Starting current inrush I²t	0.5 A²·s
Power loss	
Power loss, typ.	15 W
Power loss, max.	25 W
Interfaces	
Number of USB interfaces	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard
Connection for keyboard/mouse	USB
Video interfaces	
● DisplayPort	Yes; Display port V1.2
Touch interfaces	
● USB	Yes
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
● Enclosure Type 4 at the front	Yes
● Enclosure Type 4x at the front	Yes
● Enclosure Type 12 at the front	Yes
Standards, approvals, certificates	
Certificate of suitability	hazardous zone 2/22; shipbuilding
CE mark	Yes
UL approval	Yes; cULus, cUL
cULus	Yes; Corresponds to UL 508
FM approval	Yes; in preparation
RCM (formerly C-TICK)	Yes
EAC (formerly Gost-R)	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Ecological footprint	
● environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	281.17875 kg
— global warming potential, (during production) [CO2 eq]	57.74565 kg
— global warming potential, (during operation) [CO2 eq]	233.02427 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-10.86766 kg
Use in hazardous areas	
● ATEX Zone 2	Yes; in preparation
● ATEX Zone 22	Yes; in preparation
● IECEx Zone 2	Yes; in preparation
● IECEx Zone 22	Yes; in preparation
● FM Class I Division 2	Yes
Marine approval	
● Germanischer Lloyd (GL)	Yes; In application process
● American Bureau of Shipping (ABS)	Yes; In application process
● Bureau Veritas (BV)	Yes; In application process

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● Det Norske Veritas (DNV)	Yes; In application process
● Lloyds Register of Shipping (LRS)	Yes; In application process
● Nippon Kaiji Kyokai (Class NK)	Yes; In application process
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	50 °C
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	60 °C
Altitude during operation relating to sea level	
● Installation altitude above sea level, max.	3 500 m
Relative humidity	
● Operation, max.	95 %; no condensation
Vibrations	
● Vibration load in operation	1 gn
● Vibration load during transport/storage	1 gn
Shock testing	
● Shock load during operation	15 gn
● shock acceleration during storage/transport	15 gn
Mechanics/material	
Enclosure material (front)	In standard design
● Aluminum	Yes
● Aluminum casting	Yes
● Glass	Yes; at front
Enclosure material (rear)	aluminum
Dimensions	
Width of the housing front	326 mm
Height of housing front	237 mm
Mounting cutout, width	310 mm; Tolerance: +1 mm
Mounting cutout, height	221 mm; Tolerance: +1 mm
mounting depth	62.5 mm
Weights	
Weight (without packaging)	3 kg
Weight (with packaging)	4.4 kg

Classifications

	Version	Classification
eClass	16	19-20-02-01
eClass	14	19-20-02-01
eClass	12	19-20-02-01
eClass	9.1	19-20-02-01
eClass	9	19-20-02-01
eClass	8	19-20-02-01
eClass	7.1	19-20-02-01
eClass	6	19-20-02-01
ETIM	10	EC004862
ETIM	9	EC001428
ETIM	8	EC001428
ETIM	7	EC001428
IDEA	4	6675
UNSPSC	15	43-21-19-02

Approvals / Certificates

General Product Approval

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Miscellaneous | Manufacturer Declaration








General Product Approval				EMV	For use in hazardous locations
BIS CRS	China RoHS				








For use in hazardous locations					





FM





Miscellaneous

For use in hazardous locations	Maritime application				
CCC-Ex					NK / Nippon Kaiji Kyokai









Maritime application		Environment
CCS (China Classification Society)	KR (Korean Register of Shipping)	



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