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Data sheet 6AV7863-1MA16-2AA0

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



Figure similar

General information	
Product type designation	IFP1200 V2 PRO
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	Support arm mounting
Front mounting	No
Support arm mounting	Yes; Suitable for support arm and extension components (please refer to manual)

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Built-in unit	No; IP65 fully enclosed
maximum permitted forward tilt angle from vertical	45°
maximum permitted backward tilt angle from vertical	45°
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)	IP65
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	
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]	287.33591 kg
— global warming potential, (during production) [CO2 eq]	67.37201 kg
— global warming potential, (during operation) [CO2 eq]	233.02427 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-14.85905 kg
Use in hazardous areas	
● ATEX Zone 2	Yes
● ATEX Zone 22	Yes
● IECEx Zone 2	Yes
● IECEx Zone 22	Yes
● FM Class I Division 2	No
Marine approval	
● Germanischer Lloyd (GL)	No
● American Bureau of Shipping (ABS)	No
● Bureau Veritas (BV)	No
● Det Norske Veritas (DNV)	No

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● Lloyds Register of Shipping (LRS)	No
● Nippon Kaiji Kyokai (Class NK)	No
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	45 °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	313 mm
Height of housing front	225 mm
Weights	
Weight (without packaging)	4.4 kg
Weight (with packaging)	6.2 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





Miscellaneous

Manufacturer Declaration



BIS CRS

General Product Approval	EMV

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For use in hazardous locations					Maritime application
IECEx	UL	ATEX	IECEx	Miscellaneous	NK / Nippon Kaiji Kyokai

Environment

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