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Data sheet 6AV7863-7MA16-2AA0

SIMATIC IFP2400 V2 PRO, 24" multi-touch display (16:9) with 1920x1080 pixel resolution, PRO variant support arm, with operator control, for 24 V DC, DisplayPort, can be placed up to 100 m away HDBaseT, USB on the rear side, standard design



Figure similar

General information	
Product type designation	IFP2400 V2 PRO
Short designation	Flat Panel 24" PRO multi-touch ext.
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	23.8 in
Screen diagonal [cm]	60.47 cm
Display width	527 mm
Display height	296 mm
On Screen Display (OSD) configuration	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit
Viewing angle	178° x 178°
Resolution (pixels)	
● Image resolution	1 920 x 1 080
● Horizontal image resolution	1 920 pixel
● Vertical image resolution	1 080 pixel
● Pixel size, horizontal	0.2745 mm
● Pixel size, vertical	0.2745 mm
General features	
● Brightness/contrast	250 cd/m² / 1 000:1
● Detachable from computer unit	100 m; HDBaseT protocol
● Luminance	250 cd/m²
Backlighting	
● Type of backlighting	LED
● MTBF backlighting (at 25 °C)	50 000 h; At 25°C
● Backlight dimmable	Yes; 0-100 %
Control elements	
Control elements	multi-touch screen
Input device	
● Integrated mouse cursor control	Yes; Also externally via USB
Touch operation	
● Design as touch screen	Yes; Projective-capacitive
● 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

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	manual)
Stand mounting	Yes
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)	1.5 A
Current consumption, max.	1.9 A
Starting current inrush I²t	0.5 A²·s
Power loss	
Power loss, typ.	36 W
Power loss, max.	41 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
Standards, approvals, certificates	
Certificate of suitability	hazardous zone 2/22; shipbuilding
CE mark	Yes
UL approval	Yes; cULus, cUL
cULus	Yes
FM approval	in preparation
RCM (formerly C-TICK)	Yes
EAC (formerly Gost-R)	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Marine approval	in preparation
Ecological footprint	
● environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	604.87709 kg
— global warming potential, (during production) [CO2 eq]	112.05402 kg
— global warming potential, (during operation) [CO2 eq]	511.99699 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-22.62623 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)	Yes; In application process
● American Bureau of Shipping (ABS)	Yes; In application process

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● Bureau Veritas (BV)	Yes; In application process
● 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.	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	583 mm
Height of housing front	361 mm
Weights	
Weight (without packaging)	9.9 kg
Weight (with packaging)	11.9 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

Manufacturer Declaration

Miscellaneous

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General Product Approval					
BIS CRS	China RoHS				Manufacturer Declaration

EMV		For use in hazardous locations			
					Miscellaneous

For use in hazardous locations	Maritime application	Environment
	NK / Nippon Kaiji Kyokai	

last modified: 9/11/2026

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