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Data sheet 6AV7863-7MA10-2AA0

SIMATIC IFP2400 V2 Extended, 24" multi-touch display (16:9) with 1920x1080 pixel resolution, built-in unit, 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
Short designation	SIMATIC IFP2400 V2
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	23.8 in; 24"
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; If supported by operating system
Installation type/mounting	
Design	Built-in unit
Front mounting	Yes
VESA mounting	Yes; VESA 100 x 100 integrated

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Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
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
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
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
FM approval	Yes; Class I Div. 2
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]	599.24824 kg
— global warming potential, (during production) [CO2 eq]	102.49892 kg
— global warming potential, (during operation) [CO2 eq]	511.99699 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-18.11975 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	Yes
Marine approval	
● American Bureau of Shipping (ABS)	Yes
● Bureau Veritas (BV)	Yes

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● Det Norske Veritas (DNV)	Yes
● Lloyds Register of Shipping (LRS)	Yes
● Nippon Kaiji Kyokai (Class NK)	Yes
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.	90 %; no condensation
Vibrations	
● Vibration load in operation	10 m/s²
● Vibration load during transport/storage	10 m/s²
Shock testing	
● Shock load during operation	150 m/s²
● shock acceleration during storage/transport	250 m/s²
Mechanics/material	
Enclosure material (front)	
● Aluminum	Yes
● Aluminum casting	Yes
● Glass	Yes; at front
Enclosure material (rear)	aluminum
Dimensions	
Width of the housing front	585 mm
Height of housing front	363 mm
Mounting cutout, width	569.6 mm; Tolerance: +1 mm
Mounting cutout, height	347.6 mm; Tolerance: +1 mm
mounting depth	63.4 mm
Weights	
Weight (without packaging)	7.9 kg
Weight (with packaging)	9.9 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

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Miscellaneous

Manufacturer Declaration

General Product Approval					EMV
BIS CRS	China RoHS				

For use in hazardous locations					
			FM		

For use in hazardous locations		Maritime application			
Miscellaneous	CCC-Ex				

Maritime application			Environment
NK / Nippon Kaiji Kyokai	CCS (China Classification Society)	KR (Korean Register of Shipping)	

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