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Data sheet 6AV7863-6MA10-1AA0

*** spare part *** SIMATIC IFP1900, Flat Panel 19" display (16: 9), multi-touch, extended version up to 30 m, 1920 x 1080 pixels, for 24 V DC isolated, display port/DVI interface incl. DVI/USB cable 1.8 m standard design



Figure similar

General information	
Product type designation	IFP1900
Short designation	19" Flat Panel Full HD
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	18.5 in; 19"
Screen diagonal [cm]	47 cm
Display width	409.8 mm
Display height	230.4 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	0.213 mm
● Pixel size, vertical	0.213 mm
General features	
● Brightness/contrast	350 cd/m² / 1 000:1
● non-reflective and tempered mineral glass screen	Yes
● Detachable from computer unit	30 m
● Luminance	350 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	No
Touch operation	
● Design as touch screen	Yes; Projective-capacitive
● Monitor keyboard	Yes
Installation type/mounting	
Design	Built-in unit
Front mounting	Yes
VESA mounting	No

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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
Power loss	
Power loss, typ.	25 W
Power loss, max.	30 W
Interfaces	
USB on the rear	Yes; 2x onboard
Connection for keyboard/mouse	USB
Video interfaces	
● DVI-D	Yes
● DisplayPort	Yes; DisplayPort V1.1
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	
CE mark	Yes
UL approval	Yes; cULus, cUL
cULus	Yes; Corresponds to UL 508
RCM (formerly C-TICK)	Yes
KC approval	No; in preparation
Use in hazardous areas	
● ATEX Zone 2	No; in preparation
● ATEX Zone 22	No; in preparation
● FM Class I Division 2	No; in preparation
Marine approval	
● Germanischer Lloyd (GL)	No; in preparation
● American Bureau of Shipping (ABS)	No; in preparation
● Bureau Veritas (BV)	No; in preparation
● Det Norske Veritas (DNV)	No; in preparation
● Lloyds Register of Shipping (LRS)	No; in preparation
● Nippon Kaiji Kyokai (Class NK)	No; in preparation
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	50 °C; Vertical installation (horizontal)
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	60 °C
Relative humidity	
● Operation, max.	95 %; 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	150 m/s²

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Mechanics/material	
Enclosure material (front)	
● Glass	Yes
Dimensions	
Width of the housing front	464 mm
Height of housing front	294 mm
Mounting cutout, width	448 mm; Tolerance: +1 mm
Mounting cutout, height	278 mm; Tolerance: +1 mm
mounting depth	62.5 mm
Weights	
Weight (without packaging)	5.7 kg
Weight (with packaging)	6.8 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

General Product Approval

China RoHS

EMV

For use in hazardous locations

For use in hazardous locations

FM | Miscellaneous

For use in hazardous locations | **Maritime application**

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CCC-Ex









LRS

NK / Nippon Kaiji Kyokai

Maritime application

CCS (China Classification Society)

KR (Korean Register of Shipping)

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