SIEMENS

Data sheet 6AV7863-6MA20-2AA0

spare part SIMATIC IFP1900 V2 Ethernet, 19" multi-touch display (16:9) with 1920x 1080 pixels resolution, built-in unit, for 24 V DC, DisplayPort and Ethernet monitor, USB on the rear side, standard design



Figure similar

General information	
Product type designation	IFP1900 V2
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	18.5 in
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	100 m; Ethernet
● Luminance	350 cd/m²
Backlighting	
● Type of backlighting	LED
● MTBF backlighting (at 25 °C)	50 000 h; At 25°C
● Backlight dimmable	Yes; 5-100 %
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	Built-in unit
Front mounting	Yes
VESA mounting	No
Mounting in portrait format possible	Yes

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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; 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)	1.2 A
Current consumption, max.	1.5 A
Starting current inrush I²t	0.5 A²·s
Power loss	
Power loss, typ.	29 W
Interfaces	
USB on the rear	Yes; 2x onboard
Connection for keyboard/mouse	USB
Video interfaces	
● DVI-D	No
● DisplayPort	Yes; Display port V1.2
Touch interfaces	
● USB	Yes
Degree and class of protection	
IP (at the front)	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
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
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.	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
Dimensions	

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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
Overall depth	63.4 mm

Weights

Weight (without packaging)	5 kg
Weight (with packaging)	7 kg

Classifications

	Version	Classification
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

Approvals / Certificates

General Product Approval

Miscellaneous

Manufacturer Declaration

General Product Approval

BIS CRS

EMV

For use in hazardous locations

For use in hazardous locations

Miscellaneous

CCC-Ex

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