

SIMATIC HMI IM-319A multi-touch industrial monitor 19" (resolution 1920 x 1080)
power supply; 12/24 V DC 1 x DP, 1 x HDMI 1 x USB type A; 1 x USB type B



Figure similar

General information	
Product type designation	SIMATIC HMI IM-319A
Short designation	IM-319A
Display	
Design of display	18.5" full HD display in 16:9 format
Screen diagonal	18.5 in
Display width	408.96 mm
Display height	230.04 mm
On Screen Display (OSD) configuration	No; Adjustable by means of software
Number of colors	16 000 000; 16 million
Viewing angle	178° x 178°
Resolution (pixels)	
• Horizontal image resolution	1 920 pixel
• Vertical image resolution	1 080 pixel
General features	
• Brightness/contrast	350 cd/m ² / 1 000:1
• Detachable from computer unit	5 m
• Luminance	350 cd/m ²
Backlighting	
• Type of backlighting	LED
• MTBF backlighting (at 25 °C)	50 000 h
• Backlight dimmable	Yes; 10 ... 100%
Control elements	
Input device	
• Integrated mouse cursor control	No
Touch operation	
• Design as touch screen	Yes; Projective-capacitive
• Design as multi-touch screen	Yes
Installation type/mounting	
VESA mounting	Yes; VESA 100 x 100
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	45°
maximum permitted backward tilt angle from vertical	45°
Supply voltage	
Type of supply voltage	12-24 V DC
Rated value (DC)	24 V; 12-24 V DC

permissible range, lower limit (DC)	9 V		
permissible range, upper limit (DC)	36 V		
Input current			
current consumption (for rated value of supply voltage), max.	2 A		
Starting current inrush I²t	0.1 A²·s		
Power loss			
Power loss, typ.	21 W		
Power loss, max.	24 W		
Interfaces			
Number of USB interfaces	1; USB 2.0		
USB on the rear	Yes; 1x onboard		
Video interfaces			
• DisplayPort	Yes; Display port V1.2		
Touch interfaces			
• USB	Yes; USB 2.0		
Degree and class of protection			
IP (at the front)	IP65		
IP (rear)	IP40 (cabinet mounting) / IP20 (VESA)		
Standards, approvals, certificates			
CE mark	Yes; also UKCA		
RCM (formerly C-TICK)	Yes		
FCC	Yes		
EMC	CE, EN 61000-6-4, EN 61000-6-2		
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C		
• max.	60 °C		
Ambient temperature during storage/transportation			
• min.	-20 °C		
• max.	70 °C		
Relative humidity			
• Operation, max.	85 %; 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		
• Glass	Yes		
Dimensions			
Width of the housing front	464 mm		
Height of housing front	294 mm		
Mounting cutout, width	448 mm		
Mounting cutout, height	278 mm		
mounting depth	50 mm		
Weights			
Weight (without packaging)	3.5 kg		
Weight (with packaging)	4.7 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

Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)


UL


CB


RCM

[BIS CRS](#)


EG-Konf.

General Product Approval

EMV

Environment









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