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Data sheet 6AV7862-2BD00-2AA0

SIMATIC HMI IM-315A multi-touch industrial monitor 15" (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

General information	
Product type designation	SIMATIC HMI IM-315A
Short designation	IM-315A
Display	
Design of display	15.6" full HD display in 16:9 format
Screen diagonal	15.6 in
Display width	344.2 mm
Display height	193.6 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/m² / 1 000:1
● Detachable from computer unit	5 m
● Luminance	350 cd/m²
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

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permissible range, upper limit (DC)	36 V
Input current	
current consumption (for rated value of supply voltage), min.	0.46 A
current consumption (for rated value of supply voltage), max.	1.8 A
Starting current inrush I²t	0.1 A²·s
Power loss	
Power loss, typ.	16.5 W
Power loss, max.	19 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	1 gn
● Vibration load during transport/storage	1 gn
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	398 mm
Height of housing front	257 mm
Mounting cutout, width	382 mm
Mounting cutout, height	241 mm
mounting depth	47 mm
Weights	
Weight (without packaging)	2.8 kg
Weight (with packaging)	3.9 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

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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

BIS CRS

General Product Approval	EMV	Environment

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