HMI Webpanel XH-303, capacitive multi-touch, 7" widescreen, 1024 x 600 Pixel, 1 x Ethernet 1000Base-T/100Base-TX/10Base-T, 1 x USB host 2.0



Part no. XH-303-70-A10-A00-2B

199882

EL Number (Norway) 4507293

(Nuiway)	
General specifications	
Product name	Eaton XH web panel
Part no.	XH-303-70-A10-A00-2B
EAN	7640130099777
Product Length/Depth	196 millimetre
Product height	51 millimetre
Product width	135 millimetre
Product weight	0.781 kilogram
Certifications	EMC EN 61000-6-2 EN 61000-6-3 CE RoHS
Product Tradename	XH
Product Type	Web panel
Product Sub Type	None
Catalog Notes	Heat dissipation with power consumption for 24 V, all ports and interfaces connected
Features & Functions	
Enclosure material	Insulated material
Features	USB Host Ethernet interface Fanless CPU and system cooling, natural convection-based passive cooling Portrait format
Fitted with:	Color display 1 x USB host (built-in interface)
General information	
Degree of protection	IP20, rear (according to EN 60529-1)
Degree of protection (front side)	NEMA 4X IP65
Fuse type	Built-in fuse (not accessible)
Lifespan	50,000 h (Service life of back-lighting)
Model	Plastic enclosure and glass panel in plastic frame
Mounting method	Flush mounting - Clearance: Width x Height x Depth \geq 30 mm (1.18") Flush mounting - Inclination from vertical: $\pm 45^{\circ}$ (if using natural convection)
Protection against polarity reversal	Yes
Product category	XH-300 HMI Webpanel
Voltage type	DC
Ambient conditions, mechanical	
Shock resistance	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 18 Impacts
Vibration resistance	According to IEC/EN 60068-2-6
Climatic environmental conditions	
Air pressure	795 - 1080 hPa (operation)
Ambient operating temperature - min	0 °C
Ambient operating temperature - max	50 °C
Ambient storage temperature - min	-20 °C
Ambient storage temperature - max	00 °C
Environmental conditions	Condensation: prevent with appropriate measures
	0 °C
Operating temperature - min	ů ů

Relative humidity	10 - 95 % (non-condensing)
Electro magnetic compatibility	
Voltage dips	5 ms from undervoltage (19.2 V DC) ≤ 10 ms from rated voltage (24 V DC)
Electrical rating	
Permissible voltage	18.0 - 31.2 V DC, absolute with ripple 35 V DC (for a duration of < 100 ms) 18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %) 19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %)
Power consumption	10.5 W typ. Max. 14.4 W 2.5 W (USB Slave to USB Host) 11.9 W
Rated control supply voltage	24 V DC (UAUX, -20 %/+25 %)
Rated operational current (le)	0.6 A
Rated operational voltage	24 V DC (power-supply - safety extra low voltage)
Supply voltage at AC, 50 Hz - min	0 V
Supply voltage at AC, 50 Hz - max	0 V
Supply voltage at DC - min	19.2 V
Supply voltage at DC - max	30 V
Communication	
Interfaces	USB 2.0 host (not galvanically isolated) Ethernet (100Base-TX/10Base-T)
Display	
Display lighting	LED Dimmable via software
Display type	TFT Color display, TFT
Luminance intensity	350 cd/m ²
Number of colors of the display	65536
Screen size (diagonal)	7 in
Touch technology	Capacitive multitouch Multi-touch touch panel touch sensor
System	
Memory	DDR4-RAM: 2 GByte
	eMMC: 8 GByte
Memory capacity	2,000,000 kByte
Operating system	Linux
Processor	ARM Cortex-A53, Quad-Core, 1.8 GHz
Design verification	
Equipment heat dissipation, current-dependent Pvid	10.5 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0 W
Static heat dissipation, non-current-dependent Pvs	10.5 W
10.2.2 Corrosion resistance	Please enquire
10.2.3.1 Verification of thermal stability of enclosures	Please enquire
10.2.3.2 Verification of resistance of insulating materials to normal heat	Please enquire
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Please enquire
10.2.4 Resistance to ultra-violet (UV) radiation	Please enquire
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Please enquire
10.3 Degree of protection of assemblies	Please enquire
10.4 Clearances and creepage distances	Please enquire
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.

10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

Programmable logic controllers PLC (EG000024) / Graphic panel (EC001412)					
Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Graphic panel (HMI) (ecl@ss13-27-33-02-01 [AFX016008])					
Supply voltage AC 50 Hz	V	0 - 0			
Supply voltage AC 60 Hz	V	0 - 0			
Supply voltage DC	V	19.2 - 30			
Voltage type (supply voltage)		DC			
Power consumption	W	10.5			
Number of HW-interfaces industrial Ethernet		1			
Number of interfaces PROFINET		0			
Number of HW-interfaces RS-232		0			
Number of HW-interfaces RS-422		0			
Number of HW-interfaces RS-485		0			
Number of HW-interfaces serial TTY		0			
Number of HW-interfaces USB		1			
Number of HW-interfaces parallel		0			
Number of HW-interfaces wireless		0			
Number of HW-interfaces other		0			
With SW interfaces		No			
Supporting protocol for EtherCAT		No			
Supporting protocol for TCP/IP		No			
Supporting protocol for PROFIBUS		No			
Supporting protocol for CAN		No			
Supporting protocol for INTERBUS		No			
Supporting protocol for ASI		No			
Supporting protocol for KNX		No			
Supporting protocol for Modbus		No			
Supporting protocol for Data-Highway		No			
Supporting protocol for DeviceNet		No			
Supporting protocol for SUCONET		No			
Supporting protocol for LON		No			
Supporting protocol for PROFINET IO		No			
Supporting protocol for PROFINET CBA		No			
Supporting protocol for SERCOS		No			
Supporting protocol for Foundation Fieldbus		No			
Supporting protocol for EtherNet/IP		No			
Supporting protocol for AS-Interface Safety at Work		No			
Supporting protocol for DeviceNet Safety		No			
Supporting protocol for INTERBUS-Safety		No			
Supporting protocol for PROFIsafe		No			
Supporting protocol for SafetyBUS p		No			
Supporting protocol for other bus systems		No			
Radio standard Bluetooth		No			
Radio standard WLAN 802.11		No			
Radio standard GPRS		No			
Radio standard GSM		No			

Radio standard UMTS		No
IO link master		No
Type of display		TFT
Colour display		Yes
Number of colours of the display		65536
Number of grey-scales/blue-scales of display		0
Screen diagonal	inch	7
Number of pixels, horizontal		600
Number of pixels, vertical		1024
Useful project memory/user memory	kByte	2000000
With numeric keyboard		No
With alpha numeric keyboard		No
Number of function buttons, programmable		0
Number of buttons with LED		0
Number of system buttons		1
Touch technology		Capacitive multitouch
With message indication		No
With message system (incl. buffer and confirmation)		No
Process value representation (output) possible		No
Process default value (input) possible		No
With recipes		No
Number of password levels		1
With printer output		No
Number of online languages		2
Additional software components, loadable		No
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		4X
Certified for UL hazardous location class I		No
Certified for UL hazardous location class II		No
Certified for UL hazardous location class III		No
Certified for UL hazardous location division 1		No
Certified for UL hazardous location division 2		No
Certified for UL hazardous location group A (acetylene)		No
Certified for UL hazardous location group B (hydrogen)		No
Certified for UL hazardous location group C (ethylene)		No
Certified for UL hazardous location group D (propane)		No
Certified for UL hazardous location group E (metal dusts)		No
Certified for UL hazardous location group F (carbonaceous dusts)		No
Certified for UL hazardous location group G (non-conductive dusts)		No
Operating temperature	°C	0 - 0
Rail mounting possible		No
Wall mounting/direct mounting		No
Suitable for safety functions		No
Width of the front	mm	196
Height of the front	mm	35
Built-in depth	mm	43.1