Control panel with PLC, 24 V DC, 10 Inches PCT-Display, 1024x600 pixels, 2xEthernet, 1xRS232, 1xRS485, 1xCAN, 1xSD card slot



XV-303-10-C00-A00-1C Part no.

179662

EL Number (Norway)

4501323

(Norway)	
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Product name	Eaton XV-303 Touch panel
Part no.	XV-303-10-C00-A00-1C
EAN	7640130098749
Product Length/Depth	269 millimetre
Product height	58 millimetre
Product width	174 millimetre
Product weight	1.165 kilogram
Certifications	Certified by UL for use in Canada UL 61010-2-201 UL File No.: E205091 IEC/EN 61131-2 EN 50178 UL CE DNV GL CUL EMC according to 2014/30/EU
Product Tradename	XV-303
Product Type	Touch panel
Product Sub Type	None
Catalog Notes	12 W for basic device + 2.5 W for USB module Heat dissipation with power consumption for 24 V License certificates for onboard interfaces not required Optionally with SD card -> article no. 181638 PLC license inclusive
Fredrice material	Level de
Enclosure material	Insulated material
Features	Portrait format Slot for SD card USB device CAN RS485 Ethernet interface Target and web visualization Operating System Windows Embedded Compact 7 pro Fanless CPU and system cooling, natural convection-based passive cooling RS232 USB Host Integrated Runtime visualization software license
Fitted with:	1 x RS485 (built-in interface) Recipes 1 x USB host 2.0 (built-in interface) SW interfaces Printer output 1 x USB device (built-in interface) Message indication 1 x CANopen®/easyNet (built-in interfaces) 2 x Ethernet 10/100 Mbps (built-in interface) 1 x RS232 (built-in interface) Message system (incl. buffer and confirmation) Color display
Functions	Process value representation (output) possible Process default value (input) possible Additional software components, loadable
Battery runtime	Back-up of real-time clock: BR 2330, non-replaceable (soldered)
Degree of protection	IP20, rear (according to EN 60529-1) NEMA 12 NEMA 4X
Degree of protection (front side)	NEMA 12 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 - Inclination from vertical: $\pm 45^\circ$ (if using natural convection) Flush mounting - Clearance: Width x Height x Depth ≥ 30 mm (1.18") Flush mounting
Potential isolation	Power supply: no
Protection against polarity reversal	Yes, for supply voltage (Siemens MPI optional)
Product category	HMI-PLC (integrated SPS function)
RoHs conformity	Yes
Software	XSOFT-CODESYS-3, PLC-Programming software, Engineering XSOFT-CODESYS, Visualisation software, Engineering GALILEO, Visualisation software, Engineering XSOFT-CODESYS-2, PLC-Programming software, Engineering
Туре	Control panel with PLC and 2nd Ethernet port
Voltage type	DC
Shock resistance	15 g, 11 ms, Mechanical
Vibration resistance	5 - 9 Hz, ± 3.5 mm
	60 - 150 Hz, ± 2 g 9 - 60 Hz, ± 0.15 mm
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	60 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-3 Cold to EN 60068-2-1 Dry heat to IEC 60068-2-2
Environmental conditions	Condensation: Non-condensing
Operating temperature - min	0°C
Operating temperature - max	50 °C
Relative humidity	10 - 95 % (non-condensing)
Emitted interference	According to IEC/EN 61000-6-4
Interference immunity	According to EN 61000-6-2
Voltage dips	5 ms from undervoltage (19.2 V DC) ≤ 10 ms from rated voltage (24 V DC)
Permissible voltage	19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %) 18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %) 35 V DC (for a duration of < 100 ms) 18.0 - 31.2 V DC, absolute with ripple
Power consumption	Max. 18 W 18 W typ.
Rated operational voltage	24 V DC (power-supply - safety extra low voltage)
Supply voltage at AC, 50 Hz - min	0 V AC
Supply voltage at AC, 50 Hz - max	0 V AC
Supply voltage at DC - min	19.2 V DC
Supply voltage at DC - max	30 V DC
Interfaces	RS485 (not galvanically isolated, 9-pin SUB-D plug, UNC) USB 2.0 device (not galvanically isolated) CAN (not galvanically isolated, 9-pin SUB-D plug, UNC) RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC) 10/100 Mbps Ethernet connection USB 2.0 host (not galvanically isolated)
Number of slots	1 (for SD-Card)
Protocol	EtherNet/IP MODBUS TCP/IP CAN
Display contrast ratio	500:1

Display size	222.72 x 125.28 mm 16:9
Display type	Anti-glare tempered glass in plastic bezel Color display, TFT, anti-glare
Lumbara de la calenda	TFT 400 cd/m ²
Luminance intensity	
Number of colors of the display Resolution	16777216
nesolution	1024 x 600 px WSVGA
Screen size (diagonal)	10.1 in
Touch technology	Capacitive multitouch Multi-touch touch panel touch sensor Projected Capacitive Touch (PCT)
Backup time	10 years, typ. (time at zero voltage)
Memory	NVRAM: 128kByte Retain DRAM: 512 MByte RAM Flash: 1 GByte SLC SD card, Type: SDSC, SDHC (external memory)
Memory capacity	512,000 kByte
Operating system	Windows Embedded Compact 7 Pro
Processor	ARM Cortex-A9 800 MHz
Equipment heat dissipation, current-dependent Pvid	18 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)	0 A
Static heat dissipation, non-current-dependent Pvs	18 W
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
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	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Meets the product standard's requirements.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
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.
10.9.2 Power-frequency electric strength	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.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

Programmable logic controllers PLC (EG000024) / Graphic panel (EC001412)			
Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Graphic panel (HMI) (ecl@ss10.0.1-27-33-02-01 [AFX016003])			
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 of supply voltage		DC	
Number of HW-interfaces industrial Ethernet		2	

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Number of function buttons, programmable 0 Number of buttons with LED 0 Number of system buttons 1			
Number of buttons with LED 0 Number of system buttons 1			
Number of system buttons 1			
Touch technology Capacitive multitouch			
With message indication Yes			
With message system (incl. buffer and confirmation) Yes			
Process value representation (output) possible Yes	Process value representation (output) possible		Yes

Process default value (input) possible		Yes
With recipes		Yes
Number of password levels		200
With printer output		Yes
Number of online languages		100
Additional software components, loadable		Yes
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		12
Operating temperature	°C	0 - 50
Rail mounting possible		No
Wall mounting/direct mounting		No
Suitable for safety functions		No
Width of the front	mm	269
Height of the front	mm	174
Built-in depth	mm	50.1