User interface with PLC, 24VDC, 15.6-inch PCT widescreen display, 1366x768 pixels, 2xEthernet, 1xRS232, 1xRS485, 1xCAN, 1xProfibus, 1xSD card slot



Part no. XV-303-15-C02-A00-1C

191074

EL Number 4501332

(Norway)

(Norway)	
Product name	Eaton XV-303 Touch panel
Part no.	XV-303-15-C02-A00-1C
EAN	7640130099135
Product Length/Depth	403.7 millimetre
	76.6 millimetre
Product height Product width	254.9 millimetre
Product weight Certifications	3.9 kilogram
	EN 50178 CUL DNV GL EMC according to 2014/30/EU IEC/EN 61131-2
Product Tradename	XV-303
Product Type	Touch panel
Product Sub Type	None
Catalog Notes	19.1 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
Enclosure material	Aluminum (die-cast, glass panel) Insulated material
Features	Ethernet interface CAN RS485 Portrait format USB device RS232 USB Host Operating System Windows Embedded Compact 7 pro Target and web visualization Fanless CPU and system cooling, natural convection-based passive cooling Slot for SD card Integrated Runtime visualization software license
Fitted with:	1 x CANopen®/easyNet (built-in interfaces) 1 x RS485 (built-in interface) Message indication Printer output Color display 1 x USB host 2.0 (built-in interface) 2 x Ethernet 10/100 Mbps (built-in interface) Recipes 1 x PROFIBUS/MPI (built-in interface) MPI interface 1 x RS232 (built-in interface) SW interfaces 1 x USB device (built-in interface) Message system (incl. buffer and confirmation)
Functions	Additional software components, loadable Process value representation (output) possible Process default value (input) possible
Battery runtime	Back-up of real-time clock: BR 2330, non-replaceable (soldered)
Degree of protection	IP20, rear (according to EN 60529-1) NEMA 4X NEMA 12
Degree of protection (front side)	IP65 NEMA 12
Fuse type	Built-in fuse (not accessible)
Lifespan	50,000 h (Service life of back-lighting)

M. S. W. I	Plastic enclosure and glass panel in plastic frame
Mounting method	Flush mounting - Clearance: Width x Height \geq 50 mm (1.97"), Depth \geq 20 mm (0.79") Flush mounting - Inclination from vertical: # \leq \pm 10 ° (if using natural convection) Flush mounting - Mounting plate: min. 1.5 mm (0.06"), max. 4 mm 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	GALILEO, Visualisation software, Engineering XSOFT-CODESYS, Visualisation software, Engineering XSOFT-CODESYS-3, PLC-Programming software, Engineering XSOFT-CODESYS-2, PLC-Programming software, Engineering
Туре	Control panel with PLC, PROFIBUS, and 2nd Ethernet port
Voltage type	DC
Shock resistance	15 q, 11 ms, Mechanical
Vibration resistance	
vioration resistance	9 - 60 Hz, ± 0.15 mm 5 - 9 Hz, ± 3.5 mm 60 - 150 Hz, ± 2 g
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	Dry heat to IEC 60068-2-2 Damp heat, constant, to IEC 60068-2-3 Cold to EN 60068-2-1
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	≤ 10 ms from rated voltage (24 V DC) 5 ms from undervoltage (19.2 V DC)
Permissible voltage	18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %) 35 V DC (for a duration of < 100 ms) 19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %) 18.0 - 31.2 V DC, absolute with ripple
Power consumption	16 W typ. Max. 21.6 W
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
Communication interface	PROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC
Interfaces	CAN (not galvanically isolated, 9-pin SUB-D plug, UNC) RS485 (not galvanically isolated, 9-pin SUB-D plug, UNC) 10/100 Mbps Ethernet connection RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC) USB 2.0 device (not galvanically isolated) USB 2.0 host (not galvanically isolated)
Number of slots	1 (for SD-Card)
Protocol	TCP/IP MODBUS CAN PROFIBUS EtherNet/IP

Display contrast ratio	500:1
Display lighting	Dimmable via software LED
Display size	344.23 x 193.54 mm 16:9
Display type	Color display, TFT, anti-glare
	TFT Non-reflective tempered glass in aluminum frame
Display viewing angle	85°/85°/80°/80° (left/right/up/down)
Luminance intensity	300 cd/m ²
Number of colors of the display	16777216
Resolution	1366 x 768 px
	WXGA
Screen size (diagonal)	15.6 in
Fouch technology	Projected Capacitive Touch (PCT) Capacitive multitouch Multi-touch touch panel touch sensor
Backup time	10 years, typ. (time at zero voltage)
Memory	DRAM: 512 MByte RAM Flash: 1 GByte SLC NVRAM: 128kByte Retain 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	0 W
leat dissipation capacity Pdiss	0 W
leat 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	21.6 W
0.2.2 Corrosion resistance	Meets the product standard's requirements.
0.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
0.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
0.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
0.2.4 Resistance to ultra-violet (UV) radiation	Please enquire
0.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
0.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
0.2.7 Inscriptions	Meets the product standard's requirements.
0.3 Degree of protection of assemblies	Meets the product standard's requirements.
0.4 Clearances and creepage distances	Meets the product standard's requirements.
0.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
0.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
0.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
0.8 Connections for external conductors	Is the panel builder's responsibility.
0.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
0.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
0.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
0.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton w provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility.
0.12 Electromagnetic compatibility	Is the panel builder's responsibility.
IO.13 Mechanical function	The device meets the requirements, provided the information in the instructio

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	٧	0 - 0
Supply voltage DC	V	19.2 - 30
Voltage type of supply voltage	•	DC
Number of HW-interfaces industrial Ethernet		2
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		1
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		1
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		2
Number of HW-interfaces parallel		0
Number of HW-interfaces Vireless		
		0
Number of HW-interfaces other With SW interfaces		1 Von
		Yes
Supporting protocol for TCP/IP		Yes Yes
Supporting protocol for PROFIBUS		
Supporting protocol for CAN		Yes
Supporting protocol for INTERBUS		No No
Supporting protocol for ASI		No No
Supporting protocol for KNX		No Voo
Supporting protocol for Modbus		Yes
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		Yes
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No No
Supporting protocol for INTERBUS-Safety		No 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 Wi-Fi 802.11		No
Radio standard GPRS		No No
Radio standard GSM		No.
Radio standard UMTS		No No
10 link master		No TET
Type of display		TFT
With colour display		Yes 16 777 216
Number of colours of the display		16,777,216
Number of grey-scales/blue-scales of display		0
Screen diagonal	inch	13.6
Number of pixels, horizontal		1,366
Number of pixels, vertical		768
Useful project memory/user memory	kByte	512,000
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		Yes
With message system (incl. buffer and confirmation)		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	404
Height of the front	mm	255
Built-in depth	mm	75.5