DATASHEET - XV-303-10-BE0-A00-1C

User interface with PLC as an SWD coordinator,24VDC, 10.1-ich PCT display, 1024x600 pixels, 1xEthernet, 1xRS232, 1xRS485, 1xCAN, 1xSWD, 1xSD card slot



	XV-303-10-B 179667 4501312	EU-AUU-IC	
Product name			Eaton XV-303 Touch panel
Part no.			XV-303-10-BE0-A00-1C
EAN			7640130098558
Product Length/Depth			269 millimetre
Product height			58 millimetre
Product width			174 millimetre
Product weight			1.225 kilogram
Certifications			UL File No.: E205091 UL EN 50178 Certified by UL for use in Canada CUL DNV GL UL 61010-2-201 IEC/EN 61131-2 EMC according to 2014/30/EU CE
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
Enclosure material			Insulated material
Features			Portrait format Ethernet interface RS232 Overload proof Slot for SD card CAN Target and web visualization Integrated Runtime visualization software license USB device USB Host RS485 Fanless CPU and system cooling, natural convection-based passive cooling Operating System Windows Embedded Compact 7 pro
Fitted with:			1 x USB device (built-in interface) Printer output 1 x CANopen@/easyNet (built-in interfaces) Message system (incl. buffer and confirmation) 1 x Ethernet 10/100 Mbps (built-in interfaces) 1 x USB host 2.0 (built-in interface) Message indication Recipes 1 x RS485 (built-in interface) SW interfaces 1 x SmartWire-DT (built-in interface) 1 x RS232 (built-in interface) Color display
Functions			Process default value (input) possible Additional software components, loadable SmartWire-DT coordination Process value representation (output) possible
D			
Battery runtime Degree of protection			Back-up of real-time clock: BR 2330, non-replaceable (soldered) IP20, rear (according to EN 60529-1) NEMA 12
			NEMA 4X

Degree of protection (front side)

NEMA 12

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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 ≥ 30 mm (1.18") Flush mounting Flush mounting - Inclination from vertical: ±45° (if using natural convection)
Potential isolation	Supply voltage UAUX: no Between UPow and 15 V SmartWire-DT supply voltage: no Power supply: no
Protection against polarity reversal	Yes Yes, for supply voltage (Siemens MPI optional)
Product category	SmartWire-DT coordinators
Repetition rate	1 s
Residual ripple	≤ 5 % (input voltage)
RoHs conformity	Yes
Short-circuit protection	No, external fuse FAZ Z3, Supply voltage UAux Yes, Short-circuit rating, SmartWire-DT supply voltage
Software	XSOFT-CODESYS, Visualisation software, Engineering XSOFT-CODESYS-2, PLC-Programming software, Engineering GALILEO, Visualisation software, Engineering XSOFT-CODESYS-3, PLC-Programming software, Engineering
Terminal capacity	0.25 - 1.5 mm², flexible with ferrule 24 - 16 AWG, solid or stranded 0.2 - 1.5 mm², solid
Туре	Control panel with PLC as SWD coordinator
Voltage type	DC
Shock resistance	15 g, 11 ms, Mechanical
Vibration 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	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	≤ 10 ms, Bridging voltage dips 5 ms from undervoltage (19.2 V DC) ≤ 10 ms from rated voltage (24 V DC)
Inrush current	12.5 A (for 6 ms)
Permissible voltage	19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %) 35 V DC (for a duration of < 100 ms) 18.0 - 31.2 V DC, absolute with ripple 18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %)
Power consumption	18 W typ. Max. 18 W
Rated control supply voltage	24 V DC (UPOW, -15 %/+20 %) 24 V DC (UAUX, -15 %/+20 %)
Rated operational current (le)	0.7 A
Rated operational voltage	24 V DC (power-supply - safety extra low voltage) Typically UAUX -0.2 V (for 24 V DC slaves) 14.5 V (± 3 % - SmartWire-DT)

Supply current	If SmartWire-DT modules with a total power consumption > 0.7 A are connected, a power feeder module EU5C-SWD-PF2 has to be used; SmartWire-DT supply 3 A, Imax, Supply voltage UAux 0.7 A, Imax, SmartWire-DT supply If contactors with a total power consumption > 3 A are connected, a power feeder module EU5C-SWD-PF1/2 has to be used, Supply voltage UAux
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
Addressing	Address set automatically
Communication interface	SmartWire-DT master
Connection	SmartWire-DT blade terminal SWD4-8MF2
Connection to SmartWire-DT	Yes
Connection type	Push in terminals, Supply voltage SWD: Plug, 8-pole
Data transfer rate	125 kBit/s, SmartWire-DT 250 kBit/s, SmartWire-DT
Interfaces	RS485 (not galvanically isolated, 9-pin SUB-D plug, UNC) USB 2.0 host (not galvanically isolated) 10/100 Mbps Ethernet connection USB 2.0 device (not galvanically isolated) RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC) CAN (not galvanically isolated, 9-pin SUB-D plug, UNC)
LED indicator	Status indication of SmartWire-DT master: Green and red LEDs Status indication of Supply voltage: LED Status indication of SmartWire-DT network: Configurable green or red LED
Number of slots	1 (for SD-Card)
Number of SmartWire-DT slaves	99
Protocol	EtherNet/IP Other bus systems TCP/IP CAN MODBUS
Station	SmartWire-DT master, SmartWire-DT network
Display contrast ratio	500:1
Display lighting	LED
	Dimmable via software
Display size	16:9 222.72 x 125.28 mm
Display type	Anti-glare tempered glass in plastic bezel TFT
	Color display, TFT, anti-glare
Luminance intensity	400 cd/m ²
Number of colors of the display	16777216
Resolution	1024 x 600 px WSVGA
Screen size (diagonal)	10.1 in
Touch technology	Multi-touch touch panel touch sensor Projected Capacitive Touch (PCT) Capacitive multitouch
Backup time	10 years, typ. (time at zero voltage)
Memory Allowed All	NVRAM: 128kByte Retain SD card, Type: SDSC, SDHC (external memory) Flash: 1 GByte SLC DRAM: 512 MByte RAM
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)	0A

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 compo	onent / Panel (H	MI) / 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		1
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 Wireless		0
Number of HW-interfaces other		2
With SW interfaces		Yes
Supporting protocol for TCP/IP		Yes
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		Yes
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
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
Supporting protocol for INTERBUS-Safety			No
Supporting protocol for PROFIsafe			No
Supporting protocol for SafetyBUS p			No
Supporting protocol for other bus systems			Yes
Radio standard Bluetooth			No
Radio standard Wi-Fi 802.11			No
Radio standard GPRS			No
Radio standard GSM			No
Radio standard UMTS			No
IO link master			Νο
Type of display			TFT
With colour display			Yes
Number of colours of the display			16,777,216
Number of grey-scales/blue-scales of display			0
Screen diagonal	in	nch	10.1
Number of pixels, horizontal			1,024
Number of pixels, vertical			600
Useful project memory/user memory	k	Byte	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 value representation (supply 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	°(0 - 50
Rail mounting possible			No
Wall mounting/direct mounting			No
Suitable for safety functions			No
Width of the front	m	ım	269
Height of the front	m	ım	174
Built-in depth			