

# Specifications

## Eaton EP-401365

Eaton Touch panel XV-303, 24 V DC, 10.1 Inch, 1 x Ethernet, 1 x RS-232, 1 x RS-485, 1 x CAN, Linux, Capacitive multi touch



Photo is representative



### General specifications

<b>PRODUCT NAME</b>	Eaton XV-303 Touch panel
<b>CATALOG NUMBER</b>	EP-401365
<b>MODEL CODE</b>	XV-303-10-B00-A00-2B
<b>EAN</b>	7640130100206
<b>PRODUCT LENGTH/DEPTH</b>	269 mm
<b>PRODUCT HEIGHT</b>	58 mm
<b>PRODUCT WIDTH</b>	174 mm
<b>PRODUCT WEIGHT</b>	1.165 kg

<b>CERTIFICATIONS</b>	CUL CE Certified by UL for use in Canada UL 61010-2-201 UL File No.: E205091 UL IEC/EN 61000-6-2 IEC/EN 61000-6-4 DNV DNV TAA00000NC
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## Features & Functions

<b>ENCLOSURE MATERIAL</b>	Insulated material
<b>FITTED WITH:</b>	Color display 1 x RS485 (built-in interface) Message system (incl. buffer and confirmation) Recipes SW interfaces 1 x Ethernet 10/100 Mbps (built-in interfaces) Message indication 1 x USB host 2.0 (built-in interface) 1 x RS232 (built-in interface) Printer output 1 x CAN (built-in interfaces)
<b>FUNCTIONS</b>	Process value representation (output) possible Additional software components, loadable Process default value (input) possible

## Ambient conditions, mechanical

<b>SHOCK RESISTANCE</b>	15 g, 11 ms, Mechanical
<b>VIBRATION RESISTANCE</b>	60 - 150 Hz, $\pm 2$ g 5 - 9 Hz, $\pm 3.5$ mm 9 - 60 Hz, $\pm 0.15$ mm According to IEC/EN 60068-2-6

## General

<b>BATTERY RUNTIME</b>	Back-up of real-time clock: BR 2330, non-replaceable (soldered)
<b>DEGREE OF PROTECTION</b>	NEMA 4X IP20, rear (according to EN 60529-1) NEMA 12
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	NEMA 12 IP65
<b>FUSE TYPE</b>	Built-in fuse (not accessible)
<b>LIFESPAN</b>	50,000 h (Service life of back-lighting)
<b>MODEL</b>	Plastic enclosure and glass panel in plastic frame
<b>MOUNTING METHOD</b>	Flush mounting - Inclination from vertical: $\pm 45^\circ$ (if using natural convection) Flush mounting Flush mounting - Clearance: Width x Height x Depth $\geq 30$ mm (1.18")
<b>POTENTIAL ISOLATION</b>	Power supply: no
<b>PROTECTION AGAINST POLARITY REVERSAL</b>	Yes
<b>PRODUCT CATEGORY</b>	XV-300
<b>ROHS CONFORMITY</b>	Yes
<b>SOFTWARE</b>	GALILEO, Visualization software, Engineering
<b>TYPE</b>	Control panel
<b>VOLTAGE TYPE</b>	DC

## Climatic environmental conditions

<b>AIR PRESSURE</b>	795 - 1080 hPa (operation)
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	0 °C
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	50 °C
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	-20 °C
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	60 °C
<b>CLIMATIC PROOFING</b>	Damp heat, constant, to IEC 60068-2-3 Cold to EN 60068-2-1 Dry heat to IEC 60068-2-2
<b>ENVIRONMENTAL CONDITIONS</b>	Condensation: Non-condensing
<b>OPERATING TEMPERATURE - MIN</b>	0 °C
<b>OPERATING TEMPERATURE - MAX</b>	50 °C

Electro magnetic compatibility	
<b>EMITTED INTERFERENCE</b>	According to IEC/EN 61000-6-4
<b>INTERFERENCE IMMUNITY</b>	According to EN 61000-6-2
<b>VOLTAGE DIPS</b>	5 ms from undervoltage (19.2 V DC) ≤ 10 ms from rated voltage (24 V DC)

Communication	
<b>INTERFACES</b>	RS485 (not galvanically isolated, 9-pin SUB-D plug, UNC) USB 2.0 host (not galvanically isolated) CAN (not galvanically isolated, 9-pin SUB-D plug, UNC) 10/100 Mbps Ethernet connection RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC)
<b>NUMBER OF SLOTS</b>	1 (for SD-Card)
<b>PROTOCOL</b>	EtherNet/IP CAN TCP/IP MODBUS EtherCAT

<b>RELATIVE HUMIDITY</b>	10 - 95 % (non-condensing)
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Electrical rating	
<b>PERMISSIBLE VOLTAGE</b>	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 19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %)
<b>POWER CONSUMPTION</b>	Max. 18 W 18 W typ. 15.5 W
<b>RATED OPERATIONAL VOLTAGE</b>	24 V DC (power-supply - safety extra low voltage)
<b>SUPPLY VOLTAGE AT AC, 50 HZ - MIN</b>	0 VAC
<b>SUPPLY VOLTAGE AT AC, 50 HZ - MAX</b>	0 VAC
<b>SUPPLY VOLTAGE AT DC - MIN</b>	19.2 VDC
<b>SUPPLY VOLTAGE AT DC - MAX</b>	30 VDC

Display	
<b>DISPLAY CONTRAST RATIO</b>	500:1
<b>DISPLAY LIGHTING</b>	LED Dimmable via software
<b>DISPLAY SIZE</b>	16:9 222.72 x 125.28 mm
<b>DISPLAY TYPE</b>	Color display, TFT, anti-glare TFT Anti-glare tempered glass in plastic bezel
<b>LUMINANCE INTENSITY</b>	400 cd/m <sup>2</sup>
<b>NUMBER OF COLORS OF THE DISPLAY</b>	16777216
<b>RESOLUTION</b>	<ul style="list-style-type: none"> <li>• 1024 x 600 px</li> <li>• WSVGA</li> </ul>
<b>SCREEN SIZE (DIAGONAL)</b>	10.1 in
<b>TOUCH TECHNOLOGY</b>	Capacitive multitouch Multi-touch touch panel touch sensor Projected Capacitive Touch (PCT)

System	
<b>BACKUP TIME</b>	10 years, typ. (time at zero voltage)
<b>MEMORY</b>	Flash: 1 GByte SLC NVRAM: 128kByte Retain DRAM: 512 MByte RAM SD card, Type: SDSC, SDHC (external memory)
<b>MEMORY CAPACITY</b>	512,000 kByte
<b>OPERATING SYSTEM</b>	Linux
<b>PROCESSOR</b>	ARM Cortex-A9 800 MHz

Design verification	
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	18 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0 W
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	0 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	18 W
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Please enquire
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Meets the product standard's requirements.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-</b>	Is the panel builder's

<b>FREQUENCY ELECTRIC STRENGTH</b>	responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Resources

### BROCHURES

[eaton-xv-303-xv313-hmi-plc-brochure-br050003-en-us](#)

### CATALOGUES

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

[eaton-hmi-plc-touch-panel-xv-363-flyer-fl048001en-en-us.pdf](#)

### DECLARATIONS OF CONFORMITY

[DA-DC-00005047.pdf](#)

[DA-DC-00005053.pdf](#)

### INSTALLATION INSTRUCTIONS

[eaton-hmi-xv-303-il048022zu.pdf](#)

### MANUALS AND USER GUIDES

[eaton-systemdescription-with-embedded-linux-mn050017en-us.pdf](#)

[eaton-hmi-xv300-multi-touchdisplay-manual-mn048031en-us.pdf](#)

### MCAD MODEL

[eaton-cadenas-top\\_view-179659\\_top.pra](#)

[eaton-xv\\_303\\_10\\_b00\\_a00\\_xb-3d-model.stp](#)

[eaton-cadenas-side\\_view-179659\\_side.pra](#)

[eaton-xv\\_303\\_10\\_b00\\_a00\\_xb-drawing.dwg](#)

[eaton-cadenas-path-panels-xv\\_300-179659.3db](#)

[eaton-cadenas-front\\_view-179659\\_front.pra](#)

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**MULTIMEDIA**

[System solutions based on EtherCAT](#)

**PRODUCT NOTIFICATIONS**

[eaton-xv303-xv313-end-user-license-agreement-mz048008-en-us.pdf](#)

[eaton-xv303-xv313-product-cybersecurity-guideline-mz048009-en-us.pdf](#)

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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