

# Specifications

## Eaton EP-401369

Eaton Touch panel XV-303, 24 V DC, 15.6 Inch, 2 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-401369
-----------------------	-----------

<b>MODEL CODE</b>	XV-303-15-C00-A00-2B
-------------------	----------------------

<b>EAN</b>	7640130100282
------------	---------------

<b>PRODUCT LENGTH/DEPTH</b>	403.7 mm
-----------------------------	----------

<b>PRODUCT HEIGHT</b>	67 mm
-----------------------	-------

<b>PRODUCT WIDTH</b>	254.9 mm
----------------------	----------

<b>PRODUCT WEIGHT</b>	3.2 kg
-----------------------	--------

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

**EATON**

Powering Business Worldwide

## Features & Functions

<b>ENCLOSURE MATERIAL</b>	Insulated material
<b>FITTED WITH:</b>	1 x RS232 (built-in interface) Color display 2 x Ethernet 10/100 Mbps (built-in interface) Printer output 1 x RS485 (built-in interface) Message indication SW interfaces 1 x USB host 2.0 (built-in interface) Message system (incl. buffer and confirmation) Recipes 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>	5 - 9 Hz, $\pm 3.5$ mm 60 - 150 Hz, $\pm 2$ g 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 12 NEMA 4X IP20, rear (according to EN 60529-1)
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65 NEMA 12
<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 - Clearance: Width x Height $\geq 50$ mm (1.97"), Depth $\geq 20$ mm (0.79") Flush mounting - Inclination from vertical: $\alpha \leq \pm 10^\circ$ (if using natural convection) Flush mounting - Mounting plate: min. 1.5 mm (0.06"), max. 4 mm Flush mounting - Inclination from vertical: $\alpha \leq \pm 45^\circ$ at operating temperature $\leq 45^\circ\text{C}$ (113°F) (if using natural convection) Flush mounting
<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 with 2nd Ethernet port
<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</b>	60 °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>	10/100 Mbps Ethernet connection CAN (not galvanically isolated, 9-pin SUB-D plug, UNC) RS485 (not galvanically isolated, 9-pin SUB-D plug, UNC) USB 2.0 host (not galvanically isolated) 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

<b>TEMPERATURE - MAX</b>	
<b>CLIMATIC PROOFING</b>	Cold to EN 60068-2-1 Damp heat, constant, to IEC 60068-2-3 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
<b>RELATIVE HUMIDITY</b>	10 - 95 % (non-condensing)

## Electrical rating

<b>PERMISSIBLE VOLTAGE</b>	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 %)
<b>POWER CONSUMPTION</b>	Max. 21.6 W 16 W typ. 19.1 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>	16:9 344.23 x 193.54 mm
<b>DISPLAY TYPE</b>	TFT Color display, TFT, anti-glare 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

---

EtherCAT

---

---

**RESOLUTION**

- 1366 x 768 px
- WXGA

---

**SCREEN SIZE (DIAGONAL)** 15.6 in

---

**TOUCH TECHNOLOGY** Multi-touch touch panel touch sensor  
Capacitive multitouch  
Projected Capacitive Touch (PCT)

---

## System

**BACKUP TIME** 10 years, typ. (time at zero voltage)

**MEMORY** DRAM: 512 MByte RAM  
NVRAM: 128kByte Retain  
Flash: 1 GByte SLC  
SD card, Type: SDSC, SDHC (external memory)

**MEMORY CAPACITY** 512,000 kByte

**OPERATING SYSTEM** Linux

**PROCESSOR** ARM Cortex-A9 800 MHz

## Design verification

**EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID** 21.6 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** 21.6 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.

---

<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-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's 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

<b>BROCHURES</b>	<a href="#">eaton-xv-303-xv313-hmi-plc-brochure-br050003-en-us</a>
<b>CATALOGUES</b>	<a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a> <a href="#">eaton-hmi-plc-touch-panel-xv-363-flyer-fl048001en-en-us.pdf</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00005047.pdf</a> <a href="#">DA-DC-00005053.pdf</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-hmi-xv-303-il048022zu.pdf</a>
<b>MANUALS AND USER GUIDES</b>	<a href="#">eaton-hmi-xv300-multi-touchdisplay-manual-mn048031en-us.pdf</a> <a href="#">eaton-systemdescription-with-embedded-linux-mn050017en-us.pdf</a>
<b>MCAD MODEL</b>	<a href="#">eaton-xv_303_15_c00_a00_xb-drawing.dwg</a>

[eaton-cadenas-path-panels-xv\\_300-  
assemblies-  
xv\\_303\\_15\\_c00\\_1b\\_asmtpl.prj](#)

[eaton-cadenas-front\\_view-  
xv\\_303\\_15\\_asmtpl\\_front\\_1\\_front.pra](#)

[eaton-xv\\_303\\_15\\_c00\\_a00\\_xb-3d-  
model.stp](#)

[eaton-cadenas-side\\_view-  
xv\\_303\\_15\\_asmtpl\\_side\\_1\\_side.pra](#)

[eaton-cadenas-top\\_view-  
xv\\_303\\_15\\_asmtpl\\_top\\_1\\_top.pra](#)

**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](#)

---

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

---



**Eaton Corporation plc**  
Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

© 2025 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.

