

Specifications

Eaton EP-401361

Eaton Touch panel XV-303, 24 V DC, 7 Inch,
1 x Ethernet, 1 x RS-232, 1 x RS-485, 1 x
CAN, Linux, Capacitive multi touch



Photo is representative



General specifications

PRODUCT NAME	Eaton XV-303 Touch panel
---------------------	--------------------------

CATALOG NUMBER	EP-401361
-----------------------	-----------

MODEL CODE	XV-303-70-B00-A00-2B
-------------------	----------------------

EAN	7640130100169
------------	---------------

PRODUCT LENGTH/DEPTH	196 mm
-----------------------------	--------

PRODUCT HEIGHT	51 mm
-----------------------	-------

PRODUCT WIDTH	135 mm
----------------------	--------

PRODUCT WEIGHT	0.78 kg
-----------------------	---------

UL File No.: E205091

CE

UL 61010-2-201

UL

CUL

CERTIFICATIONS

Certified by UL for use in
Canada

IEC/EN 61000-6-2

IEC/EN 61000-6-4

DNV

DNV TAA00000NC



Powering Business Worldwide

Features & Functions

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

Ambient conditions, mechanical

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

General

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)	IP65 NEMA 12
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	<p>Flush mounting - Inclination from vertical: $\pm 45^\circ$ (if using natural convection) Flush mounting Flush mounting - Clearance: Width x Height x Depth ≥ 30 mm (1.18")</p>
POTENTIAL ISOLATION	Power supply: no
PROTECTION AGAINST POLARITY REVERSAL	Yes
PRODUCT CATEGORY	XV-300
ROHS CONFORMITY	Yes
SOFTWARE	GALILEO, Visualization software, Engineering
TYPE	Control panel
VOLTAGE TYPE	DC

Climatic environmental conditions

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	<p>Dry heat to IEC 60068-2-2 Cold to EN 60068-2-1 Damp heat, constant, to IEC 60068-2-3</p>
ENVIRONMENTAL CONDITIONS	Condensation: Non-condensing
OPERATING TEMPERATURE - MIN	0 °C
OPERATING TEMPERATURE - MAX	50 °C

Electro magnetic compatibility	
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)

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

RELATIVE HUMIDITY	10 - 95 % (non-condensing)
--------------------------	----------------------------

Electrical rating	
PERMISSIBLE VOLTAGE	18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %) 18.0 - 31.2 V DC, absolute with ripple 19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %) 35 V DC (for a duration of < 100 ms)
POWER CONSUMPTION	11.9 W Max. 14.4 W 14 W typ.
RATED OPERATIONAL VOLTAGE	24 V DC (power-supply - safety extra low voltage)
SUPPLY VOLTAGE AT AC, 50 HZ - MIN	0 VAC
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	0 VAC
SUPPLY VOLTAGE AT DC - MIN	19.2 VDC
SUPPLY VOLTAGE AT DC - MAX	30 VDC

Display	
DISPLAY CONTRAST RATIO	850:1
DISPLAY LIGHTING	LED Dimmable via software
DISPLAY SIZE	16:9 153.6 x 90.0 mm
DISPLAY TYPE	Color display, TFT, anti-glare Anti-glare tempered glass in plastic bezel TFT
LUMINANCE INTENSITY	400 cd/m ²
NUMBER OF COLORS OF THE DISPLAY	16777216
RESOLUTION	<ul style="list-style-type: none"> • 1024 x 600 px • WSVGA
SCREEN SIZE (DIAGONAL)	7 in
TOUCH TECHNOLOGY	Capacitive multitouch Multi-touch touch panel touch sensor Projected Capacitive Touch (PCT)

System	
BACKUP TIME	10 years, typ. (time at zero voltage)
MEMORY	Flash: 1 GByte SLC NVRAM: 128kByte Retain DRAM: 512 MByte RAM 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	14.4 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	14.4 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-	Is the panel builder's

FREQUENCY ELECTRIC STRENGTH	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.

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-hmi-xv300-multi-touchdisplay-manual-mn048031en-us.pdf eaton-systemdescription-with-embedded-linux-mn050017en-us.pdf
MCAD MODEL	eaton-cadenas-top_view-179647_top.pra eaton-cadenas-path-panels-xv_300-179647.3db eaton-xv_303_70_b00_a00_xb-3d-model.stp eaton-cadenas-front_view-179647_front.pra eaton-xv_303_70_b00_a00_xb-drawing.dwg eaton-cadenas-side_view-179647_side.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.

