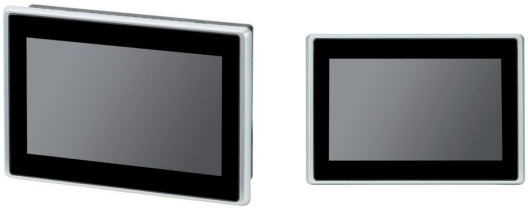
Specifications



Photo is representative



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

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
CERTIFICATIONS	UL File No.: E205091 CE UL 61010-2-201 UL CUL Certified by UL for use in Canada IEC/EN 61000-6-2 IEC/EN 61000-6-4 DNV DNV TAA00000NC

Powering Business Worldwide

Ambient conditions, mechanical

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

Climatic environmental conditions

AIR PRESSURE	795 - 1080 hPa (operation)
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT STORAGE TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	0 °C
AMBIENT STORAGE TEMPERATURE - MIN	-20 °C
CLIMATIC PROOFING	Dry heat to IEC 60068-2-2 Cold to EN 60068-2-1 Damp heat, constant, to IEC 60068-2-3
ENVIRONMENTAL CONDITIONS	Condensation: Non-condensing
OPERATING TEMPERATURE - MAX	50 °C
RELATIVE HUMIDITY	10 - 95 % (non-condensing)

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

Design verification

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.
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.	Meets the product standard's requirements.

EFFECTS	
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.
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

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/m²
NUMBER OF COLORS OF THE DISPLAY	16777216
RESOLUTION	• 1024 x 600 px • WSVGA
SCREEN SIZE (DIAGONAL)	7 in
TOUCH TECHNOLOGY	Capacitive multitouch Multi-touch touch panel touch sensor Projected Capacitive Touch (PCT)

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 DC - MAX	30 VDC
SUPPLY VOLTAGE AT DC - MIN	19.2 VDC

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)

Features & functions

ENCLOSURE MATERIAL	Insulated material
FITTED WITH:	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)
FUNCTIONS	Additional software components, loadable Process value representation (output) possible Process default value (input) possible

General information

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	Flush mounting - Inclination from vertical: ±45° (if using natural convection) Flush mounting Flush mounting - Clearance: Width x Height x Depth ≥ 30 mm (1.18")
POTENTIAL ISOLATION	Power supply: no
PRODUCT CATEGORY	XV-300
PROTECTION AGAINST POLARITY REVERSAL	Yes
ROHS CONFORMITY	Yes
SOFTWARE	GALILEO, Visualization software, Engineering
TYPE	Control panel
VOLTAGE TYPE	DC

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

Resources	
BROCHURES	eaton-xv-303-xv313-hmi-plc-brochure-br050003-en-us
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-touch-panel-declaration-of-conformity-eu251495en.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-programmable-displays-mcad-3d-models-xv-303-70-b00-a00-xb.stp eaton-displays-mcad-drawings-xv-303-70-b00-a00-xb.dwg
MULTIMEDIA	System solutions based on EtherCAT
PEP ECO-PASSPORT	eaton-programmable-displays-pep-eato-00341-v0101-en.pdf
PRODUCT NOTIFICATIONS	eaton-xv303-xv313-product-cybersecurity-guideline-mz048009-en-us.pdf eaton-windows-embedded-compact-product-terms.pdf eaton-xv303-xv313-end-user-license-agreement-mz048008-en-us.pdf

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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