

Specifications



Photo is representative



Eaton EP-401372

Eaton Touch panel XV-313, 24 V DC, 10.1 Inch, 1 x Ethernet, 1 x RS-232, 1 x RS-485, 1 x CAN, Linux, Capacitive multi touch, PLC

General specifications

PRODUCT NAME	Eaton XV-313 Touch panel
CATALOG NUMBER	EP-401372
MODEL CODE	XV-313-10-B00-A11-2C
EAN	7640130100268

PRODUCT LENGTH/DEPTH	282 mm
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PRODUCT HEIGHT	55.7 mm
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PRODUCT WIDTH	190 mm
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PRODUCT WEIGHT	1.21 kg
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CERTIFICATIONS	Certified by UL for use in Canada UL 61010-2-201 UL File No.: E205091 CE CUL IEC/EN 61000-6-2 IEC/EN 61000-6-4 UL DNV DNV TAA00000NC
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Features & Functions

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

Ambient conditions, mechanical

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

General

BATTERY RUNTIME	Back-up of real-time clock: BR 2330, non-replaceable (soldered)
DEGREE OF PROTECTION	NEMA 4X NEMA 12 IP65 IP20, rear (according to EN 60529-1)
DEGREE OF PROTECTION (FRONT SIDE)	NEMA 12 IP65
FUSE TYPE	Built-in fuse (not accessible)
LIFESPAN	50,000 h (Service life of back-lighting)
MODEL	Plastic enclosure and glass panel in aluminum mounting frame
MOUNTING METHOD	Flush mounting - Inclination from vertical: $\pm 45^\circ$ (if using natural convection) Flush mounting - Clearance: Width x Height x Depth ≥ 30 mm (1.18")
POTENTIAL ISOLATION	Power supply: no
PROTECTION AGAINST POLARITY REVERSAL	Yes
PRODUCT CATEGORY	XV-300
ROHS CONFORMITY	Yes
SOFTWARE	XSOFT-CODESYS-3, PLC-Programming software, Engineering GALILEO, Visualization software, Engineering XSOFT-CODESYS-3, Visualization software, Engineering
TYPE	<ul style="list-style-type: none"> • ! • Control panel with PLC for rear mounting
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	Cold to EN 60068-2-1

	Dry heat to IEC 60068-2-2 Damp heat, constant, to IEC 60068-2-3
ENVIRONMENTAL CONDITIONS	Condensation: Non-condensing
OPERATING TEMPERATURE - MIN	0 °C
OPERATING TEMPERATURE - MAX	50 °C
RELATIVE HUMIDITY	10 - 95 % (non-condensing)

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)

Electrical rating

PERMISSIBLE VOLTAGE	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 %) 19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %)
POWER CONSUMPTION	15.5 W Max. 18 W 18 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

Communication

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

Display

DISPLAY CONTRAST RATIO	500:1
DISPLAY LIGHTING	LED Dimmable via software
DISPLAY SIZE	222.72 x 125.28 mm 16:9
DISPLAY TYPE	Color display, TFT, anti-glare TFT Anti-glare tempered glass in plastic bezel
LUMINANCE INTENSITY	400 cd/m ²
NUMBER OF COLORS OF THE DISPLAY	16777216
RESOLUTION	<ul style="list-style-type: none"> 1024 x 600 WSVGA

SCREEN SIZE (DIAGONAL)	10.1 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	DRAM: 512 MByte RAM SD card, Type: SDSC, SDHC (external memory) Flash: 1 GByte SLC NVRAM: 128kByte Retain
MEMORY CAPACITY	512,000 kByte
OPERATING SYSTEM	Linux
PROCESSOR	ARM Cortex-A9 800 MHz

Design verification	
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)	0 A
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.

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-313-il048023zu.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-xv_313_10_b00_axx_xc-3d-model.stp eaton-cadenas-side_view-179672_side.pra

	eaton-cadenas-front_view-179672_front.pra eaton-cadenas-top_view-179672_top.pra eaton-xv_313_10_b00_axx_xc-drawing.dwg eaton-cadenas-path-panels-xv_300-179672.3db
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:



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