Specifications

Photo is representative

Eaton EP-401366

Eaton Touch panel XV-303, 24 V DC, 10.1 Inch, 2 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-401366
MODEL CODE	XV-303-10-C00-A00-2B
EAN	7640130100220
PRODUCT LENGTH/DEPTH	170 mm
PRODUCT HEIGHT	39 mm
PRODUCT WIDTH	130 mm
PRODUCT WEIGHT	1.165 kg
CERTIFICATIONS	CUL CE UL File No.: E205091 Certified by UL for use in Canada UL UL 61010-2-201 IEC/EN 61000-6-2 IEC/EN 61000-6-4 DNV DNV TAA00000NC

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Features & Functions

ENCLOSURE MATERIAL	Insulated material
FITTED WITH:	Message system (incl. buffer and confirmation) Message indication Printer output 1 x RS485 (built-in interface) Color display 1 x USB host 2.0 (built-in interface) 2 x Ethernet 10/100 Mbps (built-in interface) SW interfaces 1 x RS232 (built-in interface) Recipes 1 x CAN (built-in interfaces)
FUNCTIONS	Additional software components, loadable Process default value (input) possible Process value representation (output) possible

General

BATTERY RUNTIME	Back-up of real-time clock: BR 2330, non-replaceable (soldered)
DEGREE OF PROTECTION	NEMA 12 NEMA 4X 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 plastic frame
MOUNTING METHOD	Flush mounting - Inclination from vertical: ±45° (if using natural convection) Flush mounting - Clearance: Width x Height x Depth ≥ 30 mm (1.18") Flush mounting
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 with 2nd Ethernet port
VOLTAGE TYPE	DC

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

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	Damp heat, constant, to IEC 60068-2-3 Cold to EN 60068-2-1 Dry heat to IEC 60068-2-2
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	19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %) 18.0 - 31.2 V DC, absolute with ripple 35 V DC (for a duration of < 100 ms) 18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %)
POWER CONSUMPTION	Max. 18 W 18 W typ. 15.5 W
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) RS485 (not galvanically isolated, 9-pin SUB-D plug, UNC) 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)
NUMBER OF SLOTS	1 (for SD-Card)
PROTOCOL	EtherNet/IP CAN TCP/IP MODBUS EtherCAT

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/m²
NUMBER OF COLORS OF THE DISPLAY	16777216
RESOLUTION	• 1024 x 600 px • WSVGA
SCREEN SIZE (DIAGONAL)	10.1 in
TOUCH TECHNOLOGY	Capacitive multitouch Projected Capacitive Touch (PCT) Multi-touch touch panel touch sensor

System

BACKUP TIME	10 years, typ. (time at zero voltage)
MEMORY	SD card, Type: SDSC, SDHC (external memory) Flash: 1 GByte SLC NVRAM: 128kByte Retain DRAM: 512 MByte RAM
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-	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-00005053.pdf DA-DC-00005047.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-side_view-179660_side.pra eaton-cadenas-front_view-179660_front.pra eaton-xv_303_10_c00_a00_xb-drawing.dwg eaton-xv_303_10_c00_a00_xb-3d-model.stp eaton-cadenas-path-panels-xv_300-179660.3db eaton-cadenas-top_view-179660_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:

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