Eaton 191060

Eaton XV-313 Rear mounting control panel; 24 V DC; 10 Inches PCT-Display; 1024x600 pixels; 2xEthernet; 1xRS232; 1xRS485; 1xCAN; 1xSD slot

PRODUCT NAME	Eaton XV-313 Touch panel
CATALOG NUMBER	191060
PRODUCT LENGTH/DEPTH	282 mm
PRODUCT HEIGHT	57 mm
PRODUCT WIDTH	190 mm
PRODUCT WEIGHT	1.21 kg
CERTIFICATIONS	IEC/EN 61131-2 CUL EN 50178 Certified by UL for use in Canada UL 61010-2-201 UL File No.: E205091 EMC according to 2014/30/EU CE DNV GL UL

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TYPE	Control panel with PLC and 2nd Ethernet port
FEATURES	RS485 Operating System Windows Embedded Compact 7 pro Integrated Runtime visualization software license Target and web visualization Ethernet interface CAN USB device Slot for SD card Fanless CPU and system cooling, natural convection-based passive cooling Portrait format RS232 USB Host
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. EFFECTS	Meets the product standard's requirements.

DECLARATIONS OF CONFORMITY	DA-DC-00003711.pdf DA-DC-00003878.pdf
	IL048010ZU
	eaton-electronics-dimensions-xv-touch-panel-dimensions-002.eps eaton-modular-plc-xv-touch-panel-dimensions-004.eps eaton-modular-plc-xv-touch-panel-dimensions-007.eps eaton-modular-plc-xv-touch-panel-dimensions-009.eps eaton-general-xv-touch-panel-symbol.eps eaton-modular-plc-xv-touch-panel-3d-drawing.eps

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.
FITTED WITH:	SW interfaces Message system (incl. buffer and confirmation) 1 x USB host 2.0 (built-in interface) 1 x USB device (built-in interface) Color display 1 x RS232 (built-in interface) 1 x RS485 (built-in interface) Message indication Printer output Recipes 2 x Ethernet 10/100 Mbps

	(built-in interface) 1 x CANopen®/easyNet (built-in interfaces)
FUSE TYPE	Built-in fuse (not accessible)
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-3 Dry heat to IEC 60068-2-2 Cold to EN 60068-2-1
ENCLOSURE MATERIAL	Insulated material
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	0 VAC
SUPPLY VOLTAGE AT AC, 50 HZ - MIN	0 VAC
SUPPLY VOLTAGE AT AC, 60 HZ - MAX	0 VAC
SUPPLY VOLTAGE AT AC, 60 HZ - MIN	0 VAC
SUPPLY VOLTAGE AT DC - MAX	30 VDC
SUPPLY VOLTAGE AT DC - MIN	19.2 VDC
WIDTH OF THE FRONT	254.4 mm
PRODUCT CATEGORY	HMI-PLC (integrated SPS function)
RESOLUTION	• 1024 x 600 px • WSVGA
AIR PRESSURE	795 - 1080 hPa (operation)
DISPLAY SIZE	16:9 222.72 x 125.28 mm
ENVIRONMENTAL CONDITIONS	Condensation: Non-condensing
BACKUP TIME	10 years, typ. (time at zero voltage)
MEMORY CAPACITY	512,000 kByte
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	0 °C
AMBIENT STORAGE TEMPERATURE - MAX	60 °C
AMBIENT STORAGE TEMPERATURE - MIN	-20 °C
BUILT-IN DEPTH	57.1 mm
EQUIPMENT HEAT DISSIPATION, CURRENT-	18 W

DEPENDENT PVID	
FRONT HEIGHT	164.5 mm
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
NUMBER OF BUTTONS (PROGRAMMABLE FUNCTION)	0
NUMBER OF BUTTONS WITH LED	0
NUMBER OF GREY-SCALES/BLUE-SCALES OF DISPLAY	0
NUMBER OF HW-INTERFACES (INDUSTRIAL ETHERNET)	2
NUMBER OF HW-INTERFACES (OTHER)	1
BATTERY RUNTIME	Back-up of real-time clock: BR 2330, non-replaceable (soldered)
VOLTAGE TYPE	DC
OPERATING SYSTEM	Windows Embedded Compact 7 Pro
SOFTWARE	GALILEO, Visualization software, Engineering XSOFT-CODESYS-2, PLC-Programming software, Engineering XSOFT-CODESYS-3, PLC-Programming software, Engineering XSOFT-CODESYS, Visualization software, Engineering
EMITTED INTERFERENCE	According to IEC/EN 61000-6-4
MOUNTING METHOD	Flush mounting - Inclination from vertical: ±45° (if using natural convection) Rear mounting Flush mounting - Clearance: Width x Height x Depth ≥ 30 mm (1.18")
DISPLAY CONTRAST RATIO	500:1
NUMBER OF SLOTS	1 (for SD-Card)

DISPLAY LIGHTING	LED Dimmable via software
INTERFERENCE IMMUNITY	According to EN 61000-6-2
DISPLAY TYPE	Anti-glare tempered glass without bezel TFT Color display, TFT, anti-glare
PROTECTION AGAINST POLARITY REVERSAL	Yes, for supply voltage (Siemens MPI optional)
RELATIVE HUMIDITY	10 - 95 % (non-condensing)
LIFESPAN	50,000 h (Service life of back-lighting)
DEGREE OF PROTECTION	NEMA 12 NEMA 4X IP20, rear (according to EN 60529-1)
LUMINANCE INTENSITY	400 cd/m²
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA 12
NUMBER OF COLORS OF THE DISPLAY	16777216
VIBRATION RESISTANCE	60 - 150 Hz, ± 2 g 9 - 60 Hz, ± 0.15 mm 5 - 9 Hz, ± 3.5 mm
PROCESSOR	ARM Cortex-A9 800 MHz
ROHS CONFORMITY	Yes
MEMORY	DRAM: 512 MByte RAM Flash: 1 GByte SLC SD card, Type: SDSC, SDHC (external memory) NVRAM: 128kByte Retain
FUNCTIONS	Process value representation (output) possible Process default value (input) possible Additional software components, loadable
TOUCH TECHNOLOGY	Multi-touch touch panel touch sensor Projected Capacitive Touch (PCT) Capacitive multitouch
MODEL	Plastic enclosure and glass panel in aluminum mounting frame
INTERFACES	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) 10/100 Mbps Ethernet connection RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC) USB 2.0 device (not galvanically isolated)
VOLTAGE DIPS	5 ms from undervoltage (19.2 V DC) ≤ 10 ms from rated voltage (24 V DC)
NUMBER OF HW-INTERFACES (PARALLEL)	0
NUMBER OF HW-INTERFACES (RS-232)	1
NUMBER OF HW-INTERFACES (RS-422)	0
NUMBER OF HW-INTERFACES (RS-485)	1
NUMBER OF HW-INTERFACES (SERIAL TTY)	0
NUMBER OF HW-INTERFACES (USB)	2
NUMBER OF HW-INTERFACES (WIRELESS)	0
NUMBER OF INTERFACES (PROFINET)	0
NUMBER OF ONLINE/RUNTIME LANGUAGES	100
NUMBER OF PASSWORD LEVELS	200
NUMBER OF PIXELS (HORIZONTAL)	1024
NUMBER OF PIXELS (VERTICAL)	600
NUMBER OF SYSTEM BUTTONS	1
OPERATING TEMPERATURE - MAX	50 °C
OPERATING TEMPERATURE - MIN	0 °C
RATED OPERATIONAL	0 A

CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	
SCREEN SIZE (DIAGONAL)	10.1 in
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	18 W
PERMISSIBLE VOLTAGE	19.2 - 30 V DC, effective (rated operating voltage - 20 %/+25 %) 18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %) 18.0 - 31.2 V DC, absolute with ripple 35 V DC (for a duration of < 100 ms)
POTENTIAL ISOLATION	Power supply: no
POWER CONSUMPTION	Max. 18 W 18 W typ. 15.5 W
PROTOCOL	CAN EtherNet/IP MODBUS TCP/IP EtherCAT
RATED OPERATIONAL VOLTAGE	24 V DC (power-supply - safety extra low voltage)
SHOCK RESISTANCE	15 g, 11 ms, Mechanical

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	

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