

Specifications

Photo is representative

Eaton 179665

Eaton XV-303 Control panel with PLC, 24 VDC, 10 Inches PCT-Display, 1024x600 pixels, 1xEthernet, 1xRS232, 1xRS485, 1xCAN, 1xProfibus, 1xSD card slot

General specifications

PRODUCT NAME	Eaton Distribution parts
CATALOG NUMBER	179665
EAN	7640130098763
PRODUCT LENGTH/DEPTH	269 mm
PRODUCT HEIGHT	58 mm
PRODUCT WIDTH	174 mm
PRODUCT WEIGHT	1.195 kg
CERTIFICATIONS	CE IEC/EN 61131-2 UL File No.: E205091 EN 50178 UL 61010-2-201 Certified by UL for use in Canada EMC according to 2014/30/EU CUL UL DNV GL
MODEL CODE	XV-303-10-B02-A00-1C



Powering Business Worldwide

Product specifications

TYPE	Control panel with PLC and Profibus
FEATURES	<p>RS232</p> <p>USB Host</p> <p>Target and web visualization</p> <p>Portrait format</p> <p>Ethernet interface</p> <p>Operating System</p> <p>Windows Embedded</p> <p>Compact 7 pro</p> <p>Slot for SD card</p> <p>CAN</p> <p>RS485</p> <p>Integrated Runtime visualization software license</p> <p>Fanless CPU and system cooling, natural convection-based passive cooling</p> <p>USB device</p>
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.

Resources

BROCHURES	eaton-hmi-plc-xv300-brochure-br05003en-en-us.pdf
DECLARATIONS OF CONFORMITY	DA-DC-00003711.pdf DA-DC-00003878.pdf
DRAWINGS	eaton-operator-panels-xv-touch-panel-dimensions-004.eps eaton-electronics-dimensions-xv-touch-panel-dimensions.eps eaton-modular-plc-xv-touch-panel-dimensions-003.eps eaton-electronics-dimensions-xv-touch-panel-dimensions-002.eps eaton-operator-panels-hmi-plc-xv-touch-panel-3d-drawing.eps eaton-general-xv-touch-panel-symbol.eps eaton-operator-panels-distance-3d-drawing.eps
ECAD MODEL	DA-CE-ETN.XV-303-10-B02-A00-1C
INSTALLATION INSTRUCTIONS	eaton-xv-303-instruction-leaflet-il048009zu.pdf
MANUALS AND USER GUIDES	MN048017_EN MN048019ZU_EN
MATERIAL SAFETY DATA SHEET (MSDS)	MSDS Panasonic Manganese Dioxide Lithium Battery (Series CR).pdf
MCAD MODEL	eaton-xv_303_10_b02_a00_1c-drawing.dwg eaton-programmable-displays-mcad-3d-models-xv-303-10-b02-a00-1c.stp DA-CS-179665 XV_303_10_B02_A00_1C.dwg
TEST REPORT	UN38.3 Panasonic CR2032.pdf

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:	<ul style="list-style-type: none"> 1 x Ethernet 10/100 Mbps (built-in interfaces) MPI interface Message indication Color display Recipes Printer output 1 x CANopen®/easyNet (built-in interfaces) SW interfaces 1 x USB device (built-in interface) 1 x PROFIBUS/MPI (built-in interface) 1 x RS232 (built-in interface)

	1 x RS485 (built-in interface) Message system (incl. buffer and confirmation) 1 x USB host 2.0 (built-in interface)
FUSE TYPE	Built-in fuse (not accessible)
CLIMATIC PROOFING	Dry heat to IEC 60068-2-2 Cold to EN 60068-2-1 Damp heat, constant, to IEC 60068-2-3
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	269 mm
PRODUCT CATEGORY	HMI-PLC (integrated SPS function)
RESOLUTION	<ul style="list-style-type: none"> • 1024 x 600 px • WSVGA
AIR PRESSURE	795 - 1080 hPa (operation)
DISPLAY SIZE	222.72 x 125.28 mm 16:9
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	50.1 mm
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	18 W
FRONT HEIGHT	174 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)	1
NUMBER OF HW-INTERFACES (OTHER)	2
BATTERY RUNTIME	Back-up of real-time clock: BR 2330, non-replaceable (soldered)
VOLTAGE TYPE	DC
OPERATING SYSTEM	Windows Embedded Compact 7 Pro
COMMUNICATION INTERFACE	PROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC
SOFTWARE	XSOFT-CODESYS, Visualization software, Engineering GALILEO, Visualization software, Engineering XSOFT-CODESYS-3, PLC-Programming software, Engineering XSOFT-CODESYS-2, PLC-Programming software, Engineering
EMITTED INTERFERENCE	According to IEC/EN 61000-6-4
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") Flush mounting
DISPLAY CONTRAST RATIO	500:1
NUMBER OF SLOTS	1 (for SD-Card)
DISPLAY LIGHTING	Dimmable via software LED
INTERFERENCE IMMUNITY	According to EN 61000-6-2
DISPLAY TYPE	Color display, TFT, anti-glare Anti-glare tempered glass in plastic bezel TFT
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 IP20, rear (according to EN 60529-1) NEMA 4X
LUMINANCE INTENSITY	400 cd/m ²
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA 12
NUMBER OF COLORS OF THE DISPLAY	16777216
VIBRATION RESISTANCE	5 - 9 Hz, ± 3.5 mm 60 - 150 Hz, ± 2 g 9 - 60 Hz, ± 0.15 mm
PROCESSOR	ARM Cortex-A9 800 MHz
ROHS CONFORMITY	Yes
MEMORY	Flash: 1 GByte SLC NVRAM: 128kByte Retain SD card, Type: SDSC, SDHC (external memory) DRAM: 512 MByte RAM
FUNCTIONS	Process value representation (output) possible Process default value (input) possible Additional software components, loadable
TOUCH TECHNOLOGY	Multi-touch touch panel touch sensor

	Capacitive multitouch Projected Capacitive Touch (PCT)
MODEL	Plastic enclosure and glass panel in plastic frame
INTERFACES	RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC) USB 2.0 host (not galvanically isolated) USB 2.0 device (not galvanically isolated) 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)
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	1

BUTTONS	
OPERATING TEMPERATURE - MAX	50 °C
OPERATING TEMPERATURE - MIN	0 °C
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
SCREEN SIZE (DIAGONAL)	10.1 in
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	18 W
PERMISSIBLE VOLTAGE	35 V DC (for a duration of < 100 ms) 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
POTENTIAL ISOLATION	Power supply: no
POWER CONSUMPTION	18 W typ. Max. 18 W 15.5 W
PROTOCOL	TCP/IP MODBUS CAN EtherNet/IP PROFIBUS 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:

DATE:



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