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Eaton 150621

Eaton XV-102 Touch panel, 24 V DC, 7z,
TFTcolor, ethernet, RS232, RS485, (PLC)

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PRODUCT NAME	Eaton XV-102 Touch panel
CATALOG NUMBER	150621
PRODUCT LENGTH/DEPTH	210 mm
PRODUCT HEIGHT	38 mm
PRODUCT WIDTH	135 mm
PRODUCT WEIGHT	0.64 kg
CERTIFICATIONS	EN 60950 cULus EN 50178 IEC/EN 61000-6-4 Certified by UL for use in Canada UL Category Control No.: NRAQ CSA Class No.: none CSA File No.: UL report applies to both US and Canada CUL508 DNV GL UL File No.: E205091 UL508 IEC/EN 61000-6-2 UL UL 60950 IEC/EN 61131-2 IEC/EN 61131-2, CE EAC

FEATURES

Fanless CPU and system cooling, natural convection-based passive cooling
USB device
UL508, cUL approvals
USB Host
Portrait format
Ethernet interface
Slot for SD card

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.

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

Meets the product standard's requirements.

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ASSEMBLIES	
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:	1 x RS232 (built-in interface) Recipes Printer output SW interfaces Color display 1 x USB device (built-in interface) 1 x Ethernet 10/100 Mbps (built-in interfaces) 1 x USB host 2.0 (built-in interface) Message indication 1 x RS485 (built-in interface) Numeric keyboard Alpha numeric keyboard Message system (incl. buffer and confirmation)
FUSE TYPE	Built-in fuse (not accessible)
ENCLOSURE MATERIAL	Plastic
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 -	28.8 VDC

MAX	
SUPPLY VOLTAGE AT DC - MIN	20.4 VDC
WIDTH OF THE FRONT	210 mm
PRODUCT CATEGORY	HMI-PLC (SPS function, retrofittable)
RESOLUTION	• 800 x 480 px • WVGA
AIR PRESSURE	795 - 1080 hPa (operation)
EXPLOSION SAFETY CATEGORY FOR DUST	ATEX dust-ex-protection, II 3D Ex II T70°C IP5x: Zone 22, Category 3D ATEX dust-ex-protection, in relation to CE
BACKUP TIME	10 years, typ. (time at zero voltage)
MEMORY CAPACITY	64,000 kByte
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	0 °C
BUILT-IN DEPTH	33 mm
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	9.5 W
FRONT HEIGHT	135 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)	0
BATTERY RUNTIME	Back-up of real-time clock: CR 2032 (190 mA/h), zero maintenance (soldered)
VOLTAGE TYPE	DC
OPERATING SYSTEM	Windows CE 5.0 (license)

	included)
SOFTWARE	XSOFT-CODESYS-2, PLC-Programming software, Engineering GALILEO, Visualization software, Engineering XSOFT-CODESYS-2, Visualization software, Engineering XSOFT-CODESYS-3, PLC-Programming software, Engineering EPAM, Visualization software, Engineering XSOFT-CODESYS-3, Visualization software, Engineering
MOUNTING METHOD	Flush mounting - Clearance: Width x Height x Depth ≥ 30 mm (1.18") Flush mounting Flush mounting - Inclination from vertical: ±45° (if using natural convection)
DISPLAY CONTRAST RATIO	300:1
NUMBER OF SLOTS	1 (for SD-Card)
DISPLAY LIGHTING	LED Dimmable via software
DISPLAY TYPE	TFT Color display, TFT Standard front with standard membrane (fully enclosed)
PROTECTION AGAINST POLARITY REVERSAL	Yes Yes, for supply voltage (Siemens MPI optional)
LIFESPAN	40,000 h (Service life of back-lighting)
RATED CONTROL SUPPLY VOLTAGE	24 V DC (UPOW, -20 %/+25 %) 24 V DC (UAUX, -20 %/+25 %)
DEGREE OF PROTECTION	IP20, rear IP20
LUMINANCE INTENSITY	250 cd/m²
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA 4X
NUMBER OF COLORS OF THE DISPLAY	65536
VIBRATION RESISTANCE	According to IEC/EN 60068-2-6
PROCESSOR	RISC CPU, 32 Bit, 400 MHz

ROHS CONFORMITY	Yes
MEMORY	64 MByte internal DRAM (OS, Program and data memory) 32 kByte internal NVRAM (retained data) 128 MByte internal NAND- Flash (can be used for data backup) SD Memory Card Slot: SDA Specification 1.00 (External)
FUNCTIONS	Process default value (input) possible Process value representation (output) possible Additional software components, loadable
TOUCH TECHNOLOGY	Glass with film touch sensor Touch sensor (glass with foil), Resistive touch protective screen Resistive touch
MODEL	Insulating enclosure and front plate
INTERFACES	USB 2.0 device (not galvanically isolated) Ethernet (100Base- TX/10Base-T) USB 2.0 host (1.5 - 12 Mbit/s, 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)	800
NUMBER OF PIXELS (VERTICAL)	480
NUMBER OF SYSTEM BUTTONS	1
OPERATING TEMPERATURE - MAX	50 °C
OPERATING TEMPERATURE - MIN	0 °C
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
SCREEN SIZE (DIAGONAL)	7 in
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	9.5 W
PERMISSIBLE VOLTAGE	35 V DC (for a duration of < 100 ms) 19.2 - 30 V DC, effective (rated operating voltage - 20 %/+25 %) 18.0 - 31.2 V DC, absolute with ripple 18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %)
POTENTIAL ISOLATION	Power supply: no Supply voltage UAUX: no
POWER CONSUMPTION	9.5 W total Max. 10 W 2.5 W (USB Slave to USB Host) 7 W
PROTOCOL	MODBUS TCP/IP Other bus systems EtherNet/IP
RATED OPERATIONAL VOLTAGE	24 V DC (power-supply - safety extra low voltage)
SHOCK RESISTANCE	Mechanical, According to IEC/EN 60068-2-27

