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## Eaton 141821

Eaton XV-102 Touch panel, 24 V DC, 3.5z, TFTmono, ethernet, RS232

PRODUCT NAME	Eaton XV-102 Touch panel
CATALOG NUMBER	141821
PRODUCT LENGTH/DEPTH	136 mm
PRODUCT HEIGHT	30 mm
PRODUCT WIDTH	100 mm
PRODUCT WEIGHT	0.265 kg
CERTIFICATIONS	EN 50178 CSA Class No.: NWGQ8 CUL508 Certified by UL for use in Canada UL Category Control No.: NWGQ2 CE UL File No.: E208621 IEC/EN 61000-6-4 UL 60950-01 UL Recognized CSA-C22.2 No. 60950-1 EN 60950 IEC/EN 61131-2 UL report applies to both US and Canada IEC/EN 61000-6-2 UL 60950 EAC



FEATURES	UL508, cUL approvals USB device Slot for SD card Portrait format Ethernet interface
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	ls the panel builder's responsibility.
10.12 ELECTROMAGNETIC COMPATIBILITY	ls 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 ASSEMBLIES	Meets the product standard's requirements.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC	Does not apply, since the entire switchgear needs to

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	eaton-operator-panels-xv- touch-panel- dimensions.eps
	eaton-electronics- dimensions-xv-touch- panel-dimensions-002.eps
	eaton-operator-panels-xv- touch-panel-dimensions- 006.eps
	eaton-electronics- dimensions-xv-touch- panel-dimensions.eps
	eaton-operator-panels-xv- touch-panel-3d-drawing- 004.eps
	eaton-operator-panels-xv- touch-panel-3d-drawing- 005.eps

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SHOCK	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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Numeric keyboard Recipes SW interfaces Alpha numeric keyboard Message system (incl. buffer and confirmation) 1 x RS232 (built-in interface) 1 x Ethernet 10/100 Mbps (built-in interfaces) Message indication Printer output 1 x USB device (built-in interface)
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 - MAX	28.8 VDC
SUPPLY VOLTAGE AT DC - MIN	20.4 VDC
WIDTH OF THE FRONT	136 mm
PRODUCT CATEGORY	XV-100
RESOLUTION	<ul><li>320 x 240 px</li><li>QVGA</li></ul>

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
DISPLAY SIZE	70 x 53 mm
BACKUP TIME	10 years, typ. (time at zero voltage)
EXPLOSION SAFETY CATEGORY FOR GAS	Explosion protection according to EN 13463_x Explosion protection according to EN 61241-1 Explosion protection according to EN 60079-0
MEMORY CAPACITY	64,000 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	25 mm
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	5 W
FRONT HEIGHT	100 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	32
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

CONDITIONS OF ACCEPTABILITY	The following end-product enclosures are required: Fire The provided Ethernet Connection is only allowed to connect to inhouse networks. The investigated Pollution Degree is: 2 UL/CSA The unit must be supplied via a SELV source.
OPERATING SYSTEM	Windows CE 5.0 (license included)
SOFTWARE	GALILEO/EPAM
MOUNTING METHOD	Flush mounting Flush mounting - Clearance: Width x Height x Depth ≥ 30 mm (1.18") 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	Standard front with standard membrane (fully enclosed) TFT B/W display, TFT
PROTECTION AGAINST POLARITY REVERSAL	Yes Yes, for supply voltage (Siemens MPI optional)
RELATIVE HUMIDITY	10 - 95 % (non- condensing)
LIFESPAN	40,000 h (Service life of back-lighting)
RATED CONTROL SUPPLY VOLTAGE	24 V DC (UAUX, -20 %/+25 %)
DEGREE OF PROTECTION	IP20, rear IP65
LUMINANCE INTENSITY	250 cd/m²
DEGREE OF PROTECTION (FRONT SIDE)	NEMA 4X IP65
NUMBER OF COLORS OF THE DISPLAY	32
VIBRATION RESISTANCE	According to IEC/EN 60068-2-6
PROCESSOR	RISC CPU, 32 Bit, 400 MHz

MEMORY	SD Memory Card Slot: SDA Specification 1.00 (External) 64 MByte internal DRAM (OS, Program and data memory) 128 MByte internal NAND- Flash (can be used for data backup)
FUNCTIONS	Process value representation (output) possible Additional software components, loadable HMI Process default value (input) possible
TOUCH TECHNOLOGY	Touch sensor (glass with foil), Resistive touch protective screen Resistive touch
MODEL	Insulating enclosure and front plate
INTERFACES	RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC) Ethernet (100Base-TX/10Base-T) 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)	0
NUMBER OF HW- INTERFACES (SERIAL TTY)	0
NUMBER OF HW- INTERFACES (USB)	1
NUMBER OF HW- INTERFACES (WIRELESS)	0
NUMBER OF INTERFACES (PROFINET)	0
NUMBER OF ONLINE/RUNTIME LANGUAGES	100
NUMBER OF PASSWORD	200

LEVELS	
NUMBER OF PIXELS (HORIZONTAL)	320
NUMBER OF PIXELS (VERTICAL)	240
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)	3.5 in
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	5 W
PERMISSIBLE VOLTAGE	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 %) 35 V DC (for a duration of < 100 ms)
POTENTIAL ISOLATION	Power supply: no
POWER CONSUMPTION	Max. 5 W 5 W
PROTOCOL	EtherNet/IP MODBUS TCP/IP
RATED OPERATIONAL VOLTAGE	24 V DC (power-supply - safety extra low voltage)
SHOCK RESISTANCE	Mechanical, According to IEC/EN 60068-2-27

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
ПП:	



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