Eaton 150612

Eaton XV-152 Touch panel, 24 V DC, 10.4z, TFTcolor, ethernet, RS232, RS485, profibus, PLC

PRODUCT NAME	Eaton XV-152 Touch panel
CATALOG NUMBER	150612
PRODUCT LENGTH/DEPTH	345 mm
PRODUCT HEIGHT	54 mm
PRODUCT WIDTH	260 mm
PRODUCT WEIGHT	2.95 kg
CERTIFICATIONS	IEC/EN 61000-6-3 Security: UL UL File No.: E205091 UL508 CSA Class No.: none UL 60950 CSA File No.: UL report applies to both US and Canada cULus UL Category Control No.: NRAQ CUL508 EN 50178 EN 60950 ATEX 94/9/EG: Zone 22, Category 3D (II 3D Ex tc IIIC T70°C IP6x) IEC/EN 61131-2 IEC/EN 61241-1 (ATEX 94/9/EG: Zone 22, Category 3D (II 3D Ex tc IIIC T70°C IP6x) UL 508 DNV GL IEC/EN 60079-0 (ATEX 94/9/EG: Zone 22, Category 3D (II 3D Ex tc IIIC T70°C IP6x) IEC/EN 61000-6-2 IEC/EN 60950

Powering Business Worldwide

	IEC/EN 61131-2, CE IEC/EN 61241-0 (ATEX 94/9/EG: Zone 22, Category 3D (II 3D Ex tc IIIC T70°C IP6x) Certified by UL for use in Canada IEC/EN 61000-6-4

FEATURES	UL508, cUL approvals Slot for SD card USB Host Fanless CPU and system cooling, natural convection-based passive cooling Overload proof USB device 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	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

eaton-operator-panels-dimensions-xv-touch-panel-dimensions-003.eps eaton-operator-panels-xv-touch-panel-3d-drawing-004.eps eaton-general-xv-touch-panel-symbol.eps

	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:	1 x RS232 (built-in interface) Recipes Numeric keyboard Printer output SW interfaces Message indication 1 x USB device (built-in interface) 1 x RS485 (built-in interface) 1 x Ethernet 10/100 Mbps (built-in interfaces) 1 x USB host 2.0 (built-in interface) 1 x PROFIBUS/MPI (built-in interface) Color display Alpha numeric keyboard Message system (incl. buffer and confirmation)
FUSE TYPE	Built-in fuse (not accessible)
ADDRESSING	Address set automatically
ENCLOSURE MATERIAL	Metal, anodized
SUPPLY VOLTAGE AT AC,	0 VAC

50 HZ - MAX	
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	345 mm
PRODUCT CATEGORY	HMI-PLC (integrated SPS function)
RESOLUTION	• 640 x 480 px • VGA
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	211 x 158 mm
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
AMBIENT STORAGE TEMPERATURE - MAX	60 °C
AMBIENT STORAGE TEMPERATURE - MIN	-20 °C
BUILT-IN DEPTH	49 mm
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	14.5 W
FRONT HEIGHT	260 mm
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
NUMBER OF BUTTONS (PROGRAMMABLE	0

FUNCTION)	
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)	1
BATTERY RUNTIME	Back-up of real-time clock: CR 2032 (190 mA/h), zero maintenance (soldered)
VOLTAGE TYPE	DC
CONNECTION	SmartWire-DT blade terminal SWD4-8MF2
OPERATING SYSTEM	Windows CE 5.0 (license included)
SOFTWARE	EPAM, Visualization software, Engineering XSOFT-CODESYS-2, PLC-Programming software, Engineering XSOFT-CODESYS-3, PLC-Programming software, Engineering GALILEO, Visualization software, Engineering XSOFT-CODESYS-3, Visualization software, Engineering XSOFT-CODESYS-2, Visualization software, Engineering
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
DISPLAY CONTRAST RATIO	300:1
NUMBER OF SLOTS	1 (for SD-Card)
DISPLAY LIGHTING	Dimmable via software LED
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)
RELATIVE HUMIDITY	10 - 95 % (non-condensing) IEC/EN 50178
LIFESPAN	40,000 h (Service life of back-lighting)
RESIDUAL RIPPLE	≤ 5 % (input voltage)
CONNECTION TYPE	Push in terminals, Supply voltage SWD: Plug, 8-pole
RATED CONTROL SUPPLY VOLTAGE	24 V DC (UAUX, -20 %/+25 %) 24 V DC (UPOW, -20 %/+25 %)
INRUSH CURRENT	12.5 A (for 6 ms)
CURRENT CONSUMPTION	0.6 A, continuous current, Power Supply, 24 V DC
DATA TRANSFER RATE	250 kBit/s, SmartWire-DT 125 kBit/s, SmartWire-DT
DEGREE OF PROTECTION	IP20, rear IP20 NEMA 4X
LUMINANCE INTENSITY	250 cd/m²
DEGREE OF PROTECTION (FRONT SIDE)	NEMA 4X IP65
NUMBER OF COLORS OF THE DISPLAY	65536
STATION	SmartWire-DT master, SmartWire-DT network
VIBRATION RESISTANCE	According to IEC/EN 60068-2-6
PROCESSOR	RISC CPU, 32 Bit, 400 MHz
ROHS CONFORMITY	Yes
SUPPLY CURRENT	0.7 A, Imax, SmartWire-DT supply 3 A, Imax, Supply voltage UAux
MEMORY	SD Memory Card Slot: SDA Specification 1.00 (External) NVRAM (Retain data): 125 kByte 64 MByte internal DRAM (OS, Program and data memory)

	NAND-Flash (can be used for data backup): approx. 64 MByte available NOR-Flash: 2 MByte
FUNCTIONS	Process default value (input) possible Process value representation (output) possible Additional software components, loadable
TOUCH TECHNOLOGY	Resistive touch Touch sensor (glass with foil), Resistive touch protective screen Glass with film touch sensor
MODEL	Metal enclosure and front plate
INTERFACES	Ethernet (100Base-TX/10Base-T) USB 2.0 device (not galvanically isolated)
LED INDICATOR	Status indication of SmartWire-DT master: Green and red LEDs Status indication of SmartWire-DT network: Configurable green or red LED Status indication of Supply voltage: LED
VOLTAGE DIPS	≤ 10 ms from rated voltage (24 V DC) ≤ 10 ms, Bridging voltage dips 5 ms from undervoltage (19.2 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-	0

INTERFACES (WIRELESS)	
NUMBER OF INTERFACES (PROFINET)	0
NUMBER OF ONLINE/RUNTIME LANGUAGES	100
NUMBER OF PASSWORD LEVELS	200
NUMBER OF PIXELS (HORIZONTAL)	640
NUMBER OF PIXELS (VERTICAL)	480
NUMBER OF SMARTWIRE-DT SLAVES	58
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
REPETITION RATE	1 s
SCREEN SIZE (DIAGONAL)	10.4 in
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	14.5 W
PERMISSIBLE VOLTAGE	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) 18.0 - 31.2 V DC, absolute with ripple
POTENTIAL ISOLATION	Power supply: no Between UPow and 15 V SmartWire-DT supply voltage: no UAUX: no
POWER CONSUMPTION	9.5 W total 2.5 W (USB Slave to USB Host) Max. 12 W 12 W
PROTOCOL	EtherNet/IP

	PROFIBUS Other bus systems TCP/IP MODBUS
RATED OPERATIONAL CURRENT (IE)	0.7 A
RATED OPERATIONAL VOLTAGE	14.5 V (± 3 % - SmartWire-DT) 24 V DC (power-supply - safety extra low voltage)
SHORT-CIRCUIT PROTECTION	No, external fuse FAZ Z3, Supply voltage UAux Yes, Short-circuit rating, SmartWire-DT supply voltage
SHOCK RESISTANCE	Mechanical, According to IEC/EN 60068-2-27
TERMINAL CAPACITY	0.25 - 1.5 mm^2, flexible with ferrule 24 - 16 AWG, solid or stranded 0.2 - 1.5 mm^2, solid

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	

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