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Eaton 150604

Eaton XV-152 Touch panel, 24 V DC, 8.4z, TFTcolor, ethernet, RS232, RS485, profibus, (PLC)

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PRODUCT NAME	Eaton XV-152 Touch panel
CATALOG NUMBER	150604
PRODUCT LENGTH/DEPTH	275 mm
PRODUCT HEIGHT	52.5 mm
PRODUCT WIDTH	208 mm
PRODUCT WEIGHT	2.15 kg

CERTIFICATIONS

IEC/EN 61131-2
UL
EN 60950
Security:
UL 60950
Certified by UL for use in
Canada
IEC/EN 61000-6-3
IEC/EN 61241-0 (ATEX
94/9/EG: Zone 22,
Category 3D (II 3D Ex tc
IIIC T70°C IP6x)
CUL508
EN 50178
IEC/EN 61000-6-4
ATEX 94/9/EG: Zone 22,
Category 3D (II 3D Ex tc
IIIC T70°C IP6x)
cULus
IEC/EN 61000-6-2
IEC/EN 61131-2, CE
DNV GL
IEC/EN 60950
IEC/EN 60079-0 (ATEX
94/9/EG: Zone 22,
Category 3D (II 3D Ex tc
IIIC T70°C IP6x)
UL File No.: E205091
CSA File No.: UL report
applies to both US and
Canada
IEC/EN 61241-1 (ATEX
94/9/EG: Zone 22,
Category 3D (II 3D Ex tc
IIIC T70°C IP6x)



Powering Business Worldwide

UL Category Control No.:
NRAQ
CSA Class No.: none
UL 508
UL508
EAC

FEATURES

Ethernet interface
 USB Host
 Fanless CPU and system cooling, natural convection-based passive cooling
 USB device
 Overload proof
 Portrait format
 UL508, cUL approvals
 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

Meets the product

[eaton-operator-panels-dimensions-xv-touch-panel-dimensions-002.eps](#)

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[eaton-general-xv-touch-panel-symbol.eps](#)

[eaton-operator-panels-xv-touch-panel-3d-drawing-004.eps](#)

PROTECTION OF ASSEMBLIES	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 PROFIBUS/MPI (built-in interface) 1 x RS232 (built-in interface) Message system (incl. buffer and confirmation) Printer output SW interfaces 1 x Ethernet 10/100 Mbps (built-in interfaces) 1 x USB host 2.0 (built-in interface) Recipes 1 x USB device (built-in interface) Message indication Alpha numeric keyboard Color display 1 x RS485 (built-in interface) Numeric keyboard
FUSE TYPE	Built-in fuse (not accessible)
ADDRESSING	Address set automatically
ENCLOSURE MATERIAL	Metal, anodized
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	275 mm
PRODUCT CATEGORY	HMI-PLC (SPS function, retrofittable)
RESOLUTION	• 640 x 480 px • VGA
AIR PRESSURE	795 - 1080 hPa (operation)
EXPLOSION SAFETY CATEGORY FOR DUST	ATEX dust-ex-protection, in relation to CE ATEX dust-ex-protection, II 3D Ex II T70°C IP5x: Zone 22, Category 3D
DISPLAY SIZE	170 x 128 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	47 mm
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	14.5 W
FRONT HEIGHT	208 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	1

(INDUSTRIAL ETHERNET)	
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	XSOFT-CODESYS-3, PLC-Programming software, Engineering XSOFT-CODESYS-2, PLC-Programming software, Engineering GALILEO, Visualization software, Engineering XSOFT-CODESYS-3, Visualization software, Engineering EPAM, Visualization software, Engineering XSOFT-CODESYS-2, 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	Dimmable via software LED
DISPLAY TYPE	Color display, TFT Standard front with standard membrane (fully enclosed) TFT
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	SWD: Plug, 8-pole Push in terminals, Supply voltage
RATED CONTROL SUPPLY VOLTAGE	24 V DC (UPOW, -20 %/+25 %) 24 V DC (UAUX, -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 IP20, rear NEMA 4X
LUMINANCE INTENSITY	250 cd/m ²
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	3 A, I _{max} , Supply voltage UAux 0.7 A, I _{max} , SmartWire-DT supply
MEMORY	NOR-Flash: 2 MByte 64 MByte internal DRAM (OS, Program and data memory) SD Memory Card Slot: SDA Specification 1.00 (External) NAND-Flash (can be used for data backup): approx. 64 MByte available NVRAM (Retain data): 125 kByte
FUNCTIONS	Additional software components, loadable Process default value (input) possible Process value representation (output) possible
TOUCH TECHNOLOGY	Touch sensor (glass with foil), Resistive touch protective screen Resistive touch

	Glass with film touch sensor
MODEL	Metal enclosure and front plate
INTERFACES	USB 2.0 device (not galvanically isolated) Ethernet (100Base-TX/10Base-T)
LED INDICATOR	Status indication of SmartWire-DT network: Configurable green or red LED Status indication of SmartWire-DT master: Green and red LEDs 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-INTERFACES (WIRELESS)	0
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)	8.4 in
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	14.5 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	UAUX: no Power supply: no Between UPow and 15 V SmartWire-DT supply voltage: no
POWER CONSUMPTION	2.5 W (USB Slave to USB Host) Max. 12 W 9.5 W total 12 W
PROTOCOL	PROFIBUS EtherNet/IP TCP/IP Other bus systems 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	Yes, Short-circuit rating, SmartWire-DT supply voltage No, external fuse FAZ Z3, Supply voltage UAux
SHOCK RESISTANCE	Mechanical, According to IEC/EN 60068-2-27
TERMINAL CAPACITY	24 - 16 AWG, solid or stranded 0.25 - 1.5 mm², flexible

with ferrule
0.2 - 1.5 mm ² , solid

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Eaton House
 30 Pembroke Road
 Dublin 4, Ireland
Eaton.com

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