

Touch panel, 24 V DC, 5.7z, TFTcolor, ethernet, RS232, (PLC)

Powering Business Worldwide*

Part no. XV-102-A3-57TVRB-1E4 199734

General specifications	
Product name	Eaton XV-102 Touch panel
Part no.	XV-102-A3-57TVRB-1E4
EAN	7640130099746
Product Length/Depth	170 millimetre
Product height	39 millimetre
Product width	130 millimetre
Product weight	0.52 kilogram
Certifications	UL File No.: E208621 CSA Class No.: NWGQ8 DNV GL UL Category Control No.: NWGQ2
Product Tradename	XV-102
Product Type	Touch panel
Product Sub Type	None
Catalog Notes	4-wire Technology 7 W for basic device + 2.5 W for USB module Heat dissipation with power consumption for 24 V
Features & Functions	
Enclosure material	Plastic
Features	USB Host Ethernet interface Slot for SD card UL508, cUL approvals Fanless CPU and system cooling, natural convection-based passive cooling USB device
Fitted with:	1 x USB device (built-in interface) 1 x Ethernet 100base-TX/10base-T (built-in interface) Alpha numeric keyboard Color display Message indication Message system (incl. buffer and confirmation) Numeric keyboard Printer output Recipes SW interfaces
General information	
Degree of protection	IP65
Degree of protection (front side)	IP65 NEMA 4X
Fuse type	Built-in fuse (not accessible)
Lifespan	40,000 h (Service life of back-lighting)
Model	Insulating enclosure and front plate
Mounting method	Flush mounting
Product category	XV100
Residual ripple	≤ 5 % (input voltage)
RoHs conformity	Yes
Software	GALILEO, Visualization software, Engineering
Туре	Touch display for easyE4
Voltage type	DC
Ambient conditions, mechanical	
Shock resistance	Mechanical, According to IEC/EN 60068-2-27
Vibration resistance	According to IEC/EN 60068-2-6
Climatic environmental conditions	
	705 1000 hD /
Air pressure	795 - 1080 hPa (operation)
Ambient operating temperature - min	0 °C

Ambient operating temperature - max	50 °C
Operating temperature - min	0 °C
Operating temperature - max	50 °C
Relative humidity	10 - 90 % (non-condensing)
Electro magnetic compatibility	
Voltage dips	≤ 10 ms from rated voltage (24 V DC) 5 ms from undervoltage (19.2 V DC)
Electrical rating	
Permissible voltage Power consumption	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 %) Max. 10 W 2.5 W (USB Slave to USB Host) 9.5 W total
Rated control supply voltage	7 W 24 V DC (UAUX, -20 %/+25 %) 24 V DC (UPOW, -20 %/+25 %)
Rated operational voltage	24 V DC (power-supply - safety extra low voltage)
Supply voltage at AC, 50 Hz - min	0 V AC
Supply voltage at AC, 50 Hz - max	0 V AC
Supply voltage at DC - min	20.4 V DC
Supply voltage at DC - max	28.8 V DC
Communication	
Interfaces	USB 2.0 host (1.5 - 12 Mbit/s, not galvanically isolated) Ethernet (100Base-TX/10Base-T) RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC)
Number of slots	1 (for SD-Card)
Display	
Display contrast ratio	300:1
Display lighting	Dimmable via software LED
Display size	115 x 86 mm
Display type	Standard front with standard membrane (fully enclosed) TFT
Luminance intensity	250 cd/m²
Number of colors of the display	64000
Screen size (diagonal)	5.7 in
Touch technology	Glass with film touch sensor Resistive touch Touch sensor (glass with foil), Resistive touch protective screen
Input/Output	
Resolution	640 x 480 px
	VGA
Safety	
Protection against polarity reversal	Yes
System	
Backup time Memory	10 years, typ. (time at zero voltage) 32 kByte internal NVRAM (retained data) SD Memory Card Slot: SDA Specification 1.00 (External) 128 MByte internal NAND-Flash (can be used for data backup) 64 MByte internal DRAM (OS, Program and data memory)
Memory capacity	64,000 kByte
Operating system	Windows CE 5.0 (license included)
Processor	RISC CPU, 32 Bit, 400 MHz
Design verification	
Equipment heat dissipation, current-dependent Pvid	9.5 W
Static heat dissipation, non-current-dependent Pvs	9.5 W
10.2.5 Lifting	Does not apply to enclosures without lifting aids.
10.2.7 Inscriptions	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.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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.

Technical data ETIM 9.0

Technical data Ethiyi 5.0		
Programmable logic controllers PLC (EG000024) / Graphic panel (EC001412)		
Electric engineering, automation, process control engineering / Display and co	·	
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	20.4 - 28.8
Voltage type (supply voltage)		DC
Power consumption	W	10
Number of HW-interfaces industrial Ethernet		1
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		0
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 parallel		0
Number of HW-interfaces wireless		0
Number of HW-interfaces other		0
With SW interfaces		Yes
Supporting protocol for EtherCAT		No
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for Modbus		No
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		No
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		No
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No

Radio standard UMTS		No
10 link master		No
Type of display		TFT
Colour display		Yes
Number of colours of the display		64000
Number of grey-scales/blue-scales of display		0
Screen diagonal	inch	5.7
Number of pixels, horizontal		320
Number of pixels, vertical		240
Useful project memory/user memory	kByte	64000
With numeric keyboard		Yes
With alpha numeric keyboard		Yes
Number of function buttons, programmable		0
Number of buttons with LED		0
Number of system buttons		1
Touch technology		Resistive touch
With message indication		Yes
With message system (incl. buffer and confirmation)		Yes
Process value representation (output) possible		No
Process default value (input) possible		No
With recipes		Yes
Number of password levels		200
With printer output		Yes
Number of online languages		100
Additional software components, loadable		No
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		4X
Certified for UL hazardous location class I		No
Certified for UL hazardous location class II		No
Certified for UL hazardous location class III		No
Certified for UL hazardous location division 1		No
Certified for UL hazardous location division 2		No
Certified for UL hazardous location group A (acetylene)		No
Certified for UL hazardous location group B (hydrogen)		No
Certified for UL hazardous location group C (ethylene)		No
Certified for UL hazardous location group D (propane)		No
Certified for UL hazardous location group E (metal dusts)		No
Certified for UL hazardous location group F (carbonaceous dusts)		No
Certified for UL hazardous location group G (non-conductive dusts)		No
Operating temperature	°C	0 - 50
Rail mounting possible		No
Wall mounting/direct mounting		No
Suitable for safety functions		No
Width of the front	mm	170
Height of the front	mm	130
Built-in depth	mm	34