DATASHEET - XV-102-H4-57TVRL-10



Control tableau, 24 VDC, human-machine interface, 5, 7 inch, Ethernet, USB, RS485, CE50C



XV-102-H4-57TVRL-10 Part no. 171161 Catalog No.

Alternate Catalog XV-102-H4-57TVRL-10

No.

Delivery program

Product range Function Common features of the model series Common features Common features of the model series Common features Common features of the model series Common features Common features of the model series Common features Common features Code Series Common features Code Series Common features Code Series Code Series Common features Code Series	Delivery program		
HMI Common features of the model series Coord display, TFT Coucht-technology Coord display, TFT Coord display, TFT Coucht-technology Coord display, TFT Coord display,	Product range		XV100 5.7"
Common features of the model series Color display, TFT Color disp	Product range		XV-102
USB device Slot for SD card ULSB, cUL approvals Display - Type Touch-technology Number of colours Resolution Pixel Operatin format Screen diagonal Operating system Operating system Operating system Operating system Display - Type Display - T	Function		нмі
Touch-technology Number of colours Resolution Resolutio	Common features of the model series		USB device Slot for SD card
Number of colours Resolution Pixel YGA 640 x 480 Portrait format Yes Screen diagonal Inch 5.7 Model Operating system Model Operating system PLC-licence License certificates for onboard interfaces built-in interfaces built-in interfaces Litense certificates for onboard interfaces built-in interfaces Litense (Time type) Windows (Time type) Litense (Time type) Standard front with standard membrane (fully enclosed) Front type Utilization Flush mounting for SD card: 1 Memory card automation Memory card automation cards (optional) A k Colours 64 k Colours VGA 640 x 480 Ves Vas Vas Vas Vindows CE 5.0 (licence incl.) Nor ope LC function possible Can be expanded as required, see Accessories -> License product certificates 1 x Ethernet 10/100 Mbps 1 x USB device 1 x 85485 1 x USB device 1 x 85485 1 x USB host 2.0 Flush mounting Flush mounting for SD card: 1 Optionally with SD card -> article no. 139807 Pluggable communication cards (optional)	Display - Type		Color display, TFT
Resolution Pixel Screen diagonal Pixel Screen diagonal Inch 5.7 Model Insulating enclosure and front plate Windows CE 5.0 (licence incl.) PLC-licence Insulating enclosure and front plate Windows CE 5.0 (licence incl.) PLC-licence Incurrence Incurrenc	Touch-technology		Resistive-Touch
Portrait format Screen diagonal Model Operating system PLC-licence License certificates for onboard interfaces built-in interfaces built-in interfaces Front type Utilization Memory card automation Pluggable communication cards (optional) License (ordinal) B480 Wes Insulating enclosure and front plate Windows CE 5.0 (licence incl.) Windows CE 5.0 (licence incl.) Windows CE 5.0 (licence incl.) Can be expanded as required, see Accessories -> License product certificates 1 x Ethernet 10/100 Mbps 1 x USB device 1 x NS 48455 1 x USB host 2.0 Flush mounting for SD card: 1 Optionally with SD card -> article no. 139807 no.	Number of colours		64 k Colours
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Utilization Flush mounting Slots for SD card: 1 Memory card automation Optionally with SD card -> article no. 139807 Pluggable communication cards (optional) no	built-in interfaces		1 x USB device 1 x RS485
Slots for SD card: 1 Memory card automation Optionally with SD card -> article no. 139807 Pluggable communication cards (optional) no	Front type		Standard front with standard membrane (fully enclosed)
Memory card automation Optionally with SD card -> article no. 139807 Pluggable communication cards (optional) no	Utilization		Flush mounting
Pluggable communication cards (optional) no	Slots		for SD card: 1
	Memory card automation		Optionally with SD card -> article no. 139807
Heat dissipation W 9.5	Pluggable communication cards (optional)		no
	Heat dissipation	W	9.5

Technical data Display

Display		
Display - Type		Color display, TFT
Screen diagonal	Inch	5.7
Resolution	Pixel	VGA 640 x 480
Visible screen area	mm	115 x 86
Number of colours		64 k Colours
Contrast ratio (Normally)		Normally 300:1
Brightness	cd/m ²	Normally 250
Back-lighting		LED dimmable via software
Service life of back-lighting	h	Normally 40000
Resistive touch protective screen		Touch sensor (glass with foil)
Operation		

Operation	
	esistive-Touch wire

System

Processor	RISC CPU, 32 Bit, 400 MHz
Internal memory	DRAM (OS, Program and data memory): 64 MByte NAND-Flash (can be used for data backup): approx. 128 MByte available

External memory			SD Memory Card Slot: SDA Specification 1.00
Back-up of real-time clock			, .
Battery (service life)			non-replaceable, CR2032 soldered in
Backup (time at zero voltage)			Normally 10 years
Engineering			
Visualisation software			GALILEO
PLC-licence			no PLC function possible
Operating system			Windows CE 5.0 (licence incl.)
Interfaces, communication			
built-in interfaces			1 x Ethernet 10/100 Mbps 1 x USB device 1 x RS485 1 x USB host 2.0
USB Host			USB 2.0 (1.5 - 12 Mbit/s), not galvanically isolated
USB device			USB 2.0, not galvanically isolated
RS-485			RS-485, not galvanically isolated (SUB-D plug 9 pole, UNC)
Slots			for SD card: 1
Ethernet			100Base-TX/10Base-T
Power supply			
Nominal voltage			24 V DC SELV (safety extra low voltage)
permissible voltage			Effective: 19.2-30.0 V DC (rated operating voltage -20%/+25%) Absolute with ripple: 18,0-31,2 V DC Battery powered: 18,0-31,2 V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms
Voltage dips		ms	≤ 10 ms from rated voltage (24 V DC) 5 ms from undervoltage (19.2 V DC)
Power consumption	P _{max} .	W	10
Heat dissipation		W	9.5
Note on heat dissipation			Heat dissipation with power consumption for 24 V 7 W for basic device + 2.5 W for USB module
Protection against polarity reversal			yes
Type of fuse			Yes (fuse not accessible)
Potential isolation			no potential isolation
General			
Housing material			Plastic, gray
Front type			Standard front with standard membrane (fully enclosed)
Weight		kg	0.6
Degree of protection (IEC/EN 60529, EN50178, VBG 4)			IP65 (at front), IP20 (at rear)
Approvals			
Approvals			cUL (UL508) EAC
Explosion protection (according to ATEX 94/9/EC)			II 3D Ex II T70°C IP5x: Zone 22, Category 3D
Applied standards and directives EMC			(in relation to CE) EN 61000-6-2 EN 61000-6-4 EN 61131-2
Explosion protection (relevant for CE)			EN 60079-0 EN 61241-1 EN 13463_x
Product standards			EN 50178 EN 61131-2
Security			EN 60950 UL 60950
Mechanical shock resistance		g	according to IEC 60068-2-27
Vibration			according to IEC/EN 60068-2-6
Environmental conditions			
Climatic environmental conditions			
Air pressure (operation)		hPa	795 - 1080
Temperature			
Storage / Transport	θ	°C	-20 - +60
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	+ 50

Relative humidity			
Relative humidity			10 - 95%, non-condensing
Supply voltage U _{Aux}			
Rated operational voltage	U_{Aux}	V	24 V DC (-20/+25%)
Protection against polarity reversal			Yes
Potential isolation			No

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	9.5
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	50
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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.
$10.2.3.3\ Verification\ of\ resistance\ of\ insulating\ materials\ to\ abnormal\ heat\ and\ fire\ due\ to\ internal\ electric\ effects$			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 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 Insulation properties			
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.
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.

Technical data ETIM 7.0

PLC's (EG000024) / Graphic panel (EC001412)		
Electric engineering, automation, process control engineering / Display and contro	l component / Panel (HMI) / Graphic panel (HMI) (ecl@ss10.0.1-27-33-02-01 [AFX016003])
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 of supply voltage		DC
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		1

Section of Notice and Notice an	Number of HW-interfaces serial TTY		0
Number of MWaterlands SPRICE Common Com			
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Supporting pratecular for CAN 8,00 Supporting pratecular for MATCHEUS 8,00 Supporting pratecular for MAX 9,00 Supporting pratecular for DeviceDet 9,00 Supporting pratecular for MAX 9,00	Supporting protocol for TCP/IP		No
Supporting protect for INTERBUS No Supporting protect of ASI No Supporting protect for INXIS No Supporting protect for MUDBUS No Supporting protect for MUDBUS No Supporting protect for Evel-lefet No Supporting protect for Evel-lefet No Supporting protect for EVEL-PET No Supporti	Supporting protocol for PROFIBUS		No
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Supporting protect for KNX (**) Yea Yea<			No
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Supporting protocol for SUDCONET Mo Supporting protocol for LON Mo Supporting protocol for PROTORET CDA Mo Supporting protocol for PROTORET CDA Mo Supporting protocol for SERGOS Mo Supporting protocol for SERGOS Mo Supporting protocol for Endudation Fieldus Mo Supporting protocol for Foundation Fieldus Mo Supporting protocol for AS-Interface Sately at Wark Mo Supporting protocol for INTERBUS-Sately Mo Supporting protocol for PROTEBUS-Sately Mo Supporting protocol for Satelysts Mo Supporting protocol for Satelysts Mo Supporting protocol for Satelysts Mo Supporti	Supporting protocol for Data-Highway		No
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Supporting protocol for Device Next Safety No Supporting protocol for Device Next Safety No Supporting protocol for TNERBUS-Safety No Supporting protocol for PDFBata No Supporting protocol for PDFBata No Supporting protocol for PDFBata No Supporting protocol for SafetyBUS p No Supporting protocol for Other bus systems No Radio standard Blustodh No Radio standard SWA No Radio standard GNT No Radio standard GNT No Radio standard GNT No Number of SMA No Number of safetyBUS No Vibro clour daplay No Number of grey-scales/blue-scales of daplay FT Number of grey-scales/blue-scales of daplay Sa Number of placks, horizontal Ye Number of placks, horizontal Ye </td <td>Supporting protocol for Foundation Fieldbus</td> <td></td> <td>No</td>	Supporting protocol for Foundation Fieldbus		No
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Supporting protocol for other hus systems 98 No Radio standard Bluetooth 90 No Radio standard URMS 802.11 90 No Radio standard GSM 90 No Radio standard UMTS 90 No 10 link master 90 TFT Type of display 90 PSS With colour's display 90 PSS Number of grey-scales/blue-scales of display 90 PSS Screen diagonal 10 PSS Number of pixels, borizontal 90 PSS Number of pixels, borizontal 90 PSS Number of pixels, borizontal 90 PSS Number of pixels, vertical pixels, borizontal 90 PSS With numeric keyboard 90 PSS With numeric keyboard 90 PSS With numeric keyboard 90 PSS Number of function buttons, programmable 90 PSS Number of system buttons 90 PSS Touch technolog	Supporting protocol for PROFIsafe		No
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With recipes Yes Number of password levels 200			
Number of password levels 200			
vviii printer output Yes			
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Number of online languages		100
Additional software components, loadable		Yes
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		4X
Operation 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

Approvals

Product Standards	UL 60950-01; CSA-C22.2 No. 60950-1; IEC/EN 61131-2; CE marking
UL File No.	E208621
UL Category Control No.	NWGQ2
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NWGQ8
North America Certification	UL recognized, certified by UL for use in Canada
Conditions of Acceptability	The investigated Pollution Degree is: 2 The following end-product enclosures are required: Fire The unit must be supplied via a SELV source. The provided Ethernet Connection is only allowed to connect to inhouse networks.
Specially designed for North America	No
Current Limiting Circuit-Breaker	No
Degree of Protection	IEC: IP65, UL/CSA Type: -

Dimensions

Dimensions

Additional product information (links)

Instruction manual XV-102 MN04802004Z		
IIISU UCUVII IIIAIIUAI AV-102 IVIIV046020042		
Bedienungsanleitung XV-102 MN04802004Z - Deutsch	https://es-assets.eaton.com/D0CUMENTATION/AWB_MANUALS/MN04802004Z_DE.pdf	
Instruction manual XV-102 MN04802004Z - English	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04802004Z_EN.pdf	
Quick-start manual XV100 MN04802013Z		
Schnellstart-Handbuch XV100 MN04802013Z - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04802013Z_DE.pdf	
Quick-start manual XV100 MN04802013Z - English	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04802013Z_EN.pdf	
f1=1454&f2=1242&f3=1773;Download Software GALILEO	http://applications.eaton.eu/sdlc?LX=11&	
Produktübersicht (WEB)	http://www.eaton.eu/xv	