DATASHEET - XV-303-70-B00-A00-1B



Control panel, 24VDC, 7 Inches PCT-Display, 1024x600 pixels, 1xEthernet, 1xRS232, 1xRS485, 1xCAN, 1xSD card slot, PLC function can be fitted by user



Part no. XV-303-70-B00-A00-1B

Catalog No. 179647

Alternate Catalog XV-303-70-B00-A00-1B

No.

Similar to illustration

Delivery program

Delivery program		
Product range		XV300 7"
Product range		XV-303
Function		HMI-PLC (SPS function, retrofittable)
Description		Control panel
Common features of the model series		Ethernet interface CAN USB device USB Host RS232 RS485 Slot for SD card Operating System Windows Embedded Compact 7 pro Integrated Runtime visualization software license
Display - Type		Color display, TFT, anti-glare
Touch-technology		Capacitive multi-touch technology (PCT)
Number of colours		16777216 (Color depth 24 bit)
Resolution	Pixel	WSVGA 1024 x 600
Portrait format		yes
Screen diagonal	Inch	7 widescreen
Model		Plastic enclosure and glass panel in plastic frame
Operating system		Windows Embedded Compact 7 Pro
PLC-licence		Can be fitted by user with article no. 181585 LIC-PLC-A
License certificates for onboard interfaces		Not required
built-in interfaces		1 x Ethernet 10/100 Mbps 1 x RS232 1 x RS485 1 x USB host 2.0 1 x USB device 1 x CANopen®/easyNet
Front type		Anti-glare tempered glass in plastic bezel
Utilization		Flush mounting
Slots		for SD card: 1
Memory card automation		Optionally with SD card -> article no. 181638
Pluggable communication cards (optional)		no
Touch sensor		Multi-touch touch panel
Heat dissipation	W	14.4

Technical data

Dispiay		
Display - Type		Color display, TFT, anti-glare
Screen diagonal	Inch	7 widescreen
Resolution	Pixel	WSVGA 1024 x 600
Visible screen area	mm	153.6 x 90.0
Format		16:9
Number of colours		16777216 (Color depth 24 bit)
Contrast ratio (Normally)		Normally 850:1

	Brightness		cd/m ²	Normally 400
Commany Comm			Cu/III	
Page of Lange of La	Dack-nighting			
Personal process Personal p	Service life of back-lighting		h	Normally 50000
Number Square Number Squar	Operation			
	Technology			Projected Capacitive Touch (PCT)
Procession	Touch sensor			Multi-touch touch panel
Internal immuray Estantial immony Estantial im				
Flash 108 SLC Procession Plant 108 SLC Plant 1	Processor			ARM Cortex-A9 800 MHz
	Internal memory			Flash: 1GB SLC
Balter, governer field 1 Healthy province field 1 Amenging castle, BESSS sedered in Eachtage firms a zoro voltage) 5 4 Amenging castle, BESSS sedered in Federates 7 Amenging castle, BESSS sedered in Wasslassians sollware 5 4 SSDF-GODESYs 2 SUP-Congramming software 5 5 SSDF-GODESYs 2 Target and volt visculation 6 5 6 Intelligency Congramming software File Ciscures 6 5 6 Intelligency Congramming software File Ciscures 7 6 Intelligency Congramming software File Ciscures 8 5 6 Intelligency Congramming software File Ciscures 8 1 8 File File Opposition Society Congramming software File Ciscures 8 2 1 8 File File File Opposition Society Congramming software File Ciscures 8 2 1 8 File Ciscures File File Ciscures File Silver Congramming software File State Ciscures 8 2	External memory			SD card, Type: SDSC, SDHC
Bettery (service life)	Cooling			Fanless CPU and system cooling, natural convection-based passive cooling
Description at zero voltage) Description	Back-up of real-time clock			
	Battery (service life)			non-replaceable, BR2330 soldered in
Public P	Backup (time at zero voltage)			Normally 10 years
	Engineering			
PC - licence				
Operating system Windows Embedded Compact 7 Pro Interfaces. communication Interfaces bull-in interfaces I S Emberret 10/100 Mbps 1 is R54825 1 is USB best 20 is R53227 1 is USB best 20 is R5322 1 is USB best 20 is R5322 1 is USB best 20 is R5322 1 is USB best 20 is USB 2.0, not galvanically isolated USB Hoot USB 2.0, not galvanically isolated USB 2.0, not galvanically isolated USB 2.0, not galvanically isolated R5-22 Not galvanically isolated, 9-pin D-sub plug, UNC CAN Section Not galvanically isolated, 9-pin D-sub plug, UNC CAN Section Section Not galvanically isolated, 9-pin D-sub plug, UNC CAN Section Section Not galvanically isolated, 9-pin D-sub plug, UNC CAN Section Section Not galvanically isolated, 9-pin D-sub plug, UNC CAN Section Section Not galvanically isolated, 9-pin D-				
Interfaces, communication built- in interfaces	PLC-licence			Can be fitted by user with article no. 181585 LIC-PLC-A
built-in interfaces List in the Comment 10/100 Mbgs 1 1 R 15822 1 1 R 15825 1 R 1				Windows Embedded Compact 7 Pro
LUSB Host USB Host USB device USB 2, nor galvanically isolated USB 2, nor galvanically isolated, 3-pin D-sub plug, UNC Effective: 192-300 V DC (rated operating voltage 295%/30%) So DC Greater: Effective: 192-300 V DC (rated operating voltage -295%/30%) So V DC or duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration of < 100 ins So V DC for a duration o				
I	built-in interfaces			
Lx USB device				1 x RS485
USB Host USB 2.0, not galvanically isolated USS device USB 2.0, not galvanically isolated RS-232 Not galvanically isolated, 9-pin D-sub plug, UNC RS-485 Not galvanically isolated, 9-pin D-sub plug, UNC CAN Slots for SD card: 1 Ethernet for SD card: 1 polyton Mbps Power supply Fower supply Voltage dips 2 V D C SELV (safety extra low voltage) Permissible voltage 2 V D C SELV (safety extra low voltage) Voltage dips 2 V D C SELV (safety extra low voltage) Power consumption page 2 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute with ripple: 180-312 V D C (rated operating voltage -25%/-30%) Absolute wi				
USB device				
RS-232 RS-485 RS	USB Host			USB 2.0, not galvanically isolated
RS-485 CAN Slots Fetheret Frower supply Nominal voltage permissible voltage Power consumption Fower consumption For sub earl dissipation For sub earl	USB device			USB 2.0, not galvanically isolated
CAN Slots Ethernet Power supply Nominal voltage permissible voltage Voltage dips Voltage dips Power consumption Power consumption for 24 V TILS W Tor basic device + 2.5 W for USB module Protection against polarity reversal yes Yes Yes (fuse not accessible) no Ceneral Protection Power consumption for 24 V TILS W Tor basic device + 2.5 W for USB module Protection against polarity reversal yes Yes Yes (fuse not accessible) no Ceneral Power consumption for 24 V TILS W Tor basic device + 2.5 W for USB module Protection against polarity reversal Power consumption for 24 V TILS W Tor basic device + 2.5 W for USB module Power consumption for 24 V TILS W Tor basic device + 2.5 W for USB module Power consumption for 24 V TILS W Tor basic device + 2.5 W for USB module Power consumption for 24 V TILS W Tor basic device + 2.5 W for USB module Power consumption for 24 V TILS W Tor basic device + 2.5 W for USB module Power consumption for 24 V TILS W Tor basic device + 2.5 W for USB module Power consumption for 24 V TILS W Tor basic device + 2.5 W for USB module	RS-232			Not galvanically isolated, 9-pin D-sub plug, UNC
Slots Ethernet Fower supply Nominal voltage permissible voltage Power consumption Voltage dips	RS-485			Not galvanically isolated, 9-pin D-sub plug, UNC
Ethernet Power supply Nominal voltage permissible voltage Power consumption Voltage dips Voltage dips read voltage (24 V DC) S ms from rated voltage (24 V DC) S ms from undervoltage (19.2 V DC) Voltage dips Voltage d	CAN			Not galvanically isolated, 9-pin D-sub plug, UNC
Power supply Nominal voltage 24 V DC SELV (safety extra low voltage) permissible voltage Effective: 19.2:30 V DC (rated operating voltage -20%/-25%) Absolutive with ripple: 18.0:31.2 V DC Absolutive with ripple: 18.0:31.2 V DC (rated operating voltage -25%/-30%) Voltage dips s 10 ms from rated voltage (19.2 V DC) Power consumption Pmax W 14.4 Power consumption W Normally 14 Heat dissipation W 14.4 Note on heat dissipation W 14.4 Protection against polarity reversal W 14.4 Protection against polarity reversal Yes (fuse not accessible) Type of fuse Yes (fuse not accessible) Potential isolation no General Housing material Insulated material black Front type Anti-glare tempered glass in plastic bezel Dimensions (W x H x D) mm 196 x 135 x 51 flush mounted Learnace: W x H x D ≥ 30 mm (1.18) Weight Learnace: W x H x D ≥ 30 mm (1.18) Degree of protection (IEC/EN 60529, EN50178, VBG 4) FP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1)	Slots			for SD card: 1
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 (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) Power consumption Pmax W 14.4 Power consumption Pmax W Normally 14 Heat dissipation Heat dissipation with power consumption for 24 V 11.9 W for basic device + 2.5 W for USB module Protection against polarity reversal yes Yes (fuse not accessible) Type of fuse Yes (fuse not accessible) no Potential isolation Insulated material black Front type Anti-glare tempered glass in plastic bezel Dimensions (W x H x D) mm 196 x 135 x 51 flush mounted kg 0.74 Weight Learners W x H x D ≥ 30 mm (1.18) Inclusion from vertical: ±45° (if using natural convection) Weight Learners W x H x D ≥ 30 mm (1.18) Inclusion from vertical: ±45° (if using natural convection) Poster of protection (IEC/EN 60529, EN50178, VBG 4) Front type	Ethernet			10/100 Mbps
permissible voltage Effective: 19.2-30.0 V DC (rated operating voltage -20%+25%) Absolute with ripple: 18.0-31.2 V DC (rated operating voltage -25%+30%) 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of < 100 ms 35 V DC for a duration of voltage 200 ms 40 V DC 200 ms 40	Power supply			
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 Pmax W 14.4 Power consumption Heat dissipation W Normally 14 Heat dissipation Protection against polarity reversal Protection against polarity reversal Protential isolation General Housing material Housing material Front type Dimensions (W x H x D) Insulated material black Front type Dimensions (W x H x D) Mm 196 x 135 x 51 Insulated material empered glass in plastic bezel Dimensions (W x H x D) ≥ 30 mm (1.18°) Inclination from vertical: ±45° (if using natural convection) Weight Degree of protection (IEC/EN 80529, EN50178, VBG 4)	Nominal voltage			24 V DC SELV (safety extra low voltage)
Power consumption Power consumption Power consumption Power consumption W Normally 14 Heat dissipation W 14.4 Note on heat dissipation W 14.4 Note on heat dissipation W 14.4 Heat dissipation in 19.4 V 11.9 W for basic device + 2.5 W for USB module Protection against polarity reversal Type of fuse Potential isolation General Housing material Front type Dimensions (W x H x D) flush mounted W 14.4 Heat dissipation with power consumption for 24 V 11.9 W for basic device + 2.5 W for USB module yes Yes (fuse not accessible) no Anti-glare tempered glass in plastic bezel Dimensions (W x H x D) flush mounted Weight Rg 0.74 Degree of protection (IEC/EN 60529, EN50178, VBG 4) Power consumption Power consumption ### 196 x 135 x 51 Clearance: W x H x D ≥ 30 mm (1.18°) Inclination from vertical: ±45° (if using natural convection) ### Rg 0.74 ### 1965 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1)	permissible voltage			Absolute with ripple: 18,0-31,2 V DC Battery powered: 18,0-31,2 V DC (rated operating voltage -25%/+30%)
Power consumption W Normally 14 Heat dissipation W 14.4 Note on heat dissipation Heat dissipation with power consumption for 24 V 11.9 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 General Insulated material black Front type Anti-glare tempered glass in plastic bezel Dimensions (W x H x D) mm 196 x 135 x 51 Glush mounted Clearance: W x H x D ≥ 30 mm (1.18") Inclination from vertical: ±45° (if using natural convection) Weight kg 0.74 Degree of protection (IEC/EN 60529, EN50178, VBG 4) IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1)	Voltage dips		ms	
Heat dissipation W	Power consumption	P _{max} .	W	14.4
Heat dissipation W	Power consumption		W	Normally 14
Note on heat dissipation Heat dissipation with power consumption for 24 V 11.9 W for basic device + 2.5 W for USB module Protection against polarity reversal yes Type of fuse Potential isolation General Housing material Housing material Front type Dimensions (W x H x D) flush mounted Manual Manua			W	
Type of fuse Potential isolation General Housing material Housing material Front type Dimensions (W x H x D) flush mounted Weight Degree of protection (IEC/EN 60529, EN50178, VBG 4) Yes (fuse not accessible) no Yes (fuse not accessible) no flusulated material black Anti-glare tempered glass in plastic bezel Clearance: W x H x D ≥ 30 mm (1.18") Inclination from vertical: ±45° (if using natural convection) kg 0.74 Pegree of protection (IEC/EN 60529, EN50178, VBG 4)				Heat dissipation with power consumption for 24 V
Potential isolation General Housing material Housing material Front type Insulated material black Anti-glare tempered glass in plastic bezel Dimensions (W x H x D) mm 196 x 135 x 51 Clearance: W x H x D ≥ 30 mm (1.18") Inclination from vertical: ±45° (if using natural convection) Weight kg 0.74 Degree of protection (IEC/EN 60529, EN50178, VBG 4) IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1)	Protection against polarity reversal			yes
Potential isolation General Housing material Housing material Front type Insulated material black Anti-glare tempered glass in plastic bezel Dimensions (W x H x D) mm 196 x 135 x 51 Clearance: W x H x D ≥ 30 mm (1.18") Inclination from vertical: ±45° (if using natural convection) Weight kg 0.74 Degree of protection (IEC/EN 60529, EN50178, VBG 4) IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1)	Type of fuse			Yes (fuse not accessible)
Housing material black Anti-glare tempered glass in plastic bezel mm 196 x 135 x 51 Clearance: W x H x D ≥ 30 mm (1.18") Inclination from vertical: ±45° (if using natural convection) Weight Reg 0.74 Degree of protection (IEC/EN 60529, EN50178, VBG 4) IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1)	Potential isolation			
Front type Anti-glare tempered glass in plastic bezel Dimensions (W x H x D) flush mounted Clearance: W x H x D ≥ 30 mm (1.18") Inclination from vertical: ±45° (if using natural convection) Weight kg 0.74 Degree of protection (IEC/EN 60529, EN50178, VBG 4) IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1)				
Dimensions (W x H x D) mm 196 x 135 x 51 flush mounted Clearance: W x H x D \geq 30 mm (1.18") Inclination from vertical: \pm 45° (if using natural convection) Weight kg 0.74 Degree of protection (IEC/EN 60529, EN50178, VBG 4) IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1)	Housing material			Insulated material black
flush mounted	Front type			Anti-glare tempered glass in plastic bezel
Inclination from vertical: ±45° (if using natural convection) Weight kg 0.74	Dimensions (W x H x D)		mm	196 x 135 x 51
Inclination from vertical: ±45° (if using natural convection) Weight kg 0.74				Clearance: W x H x D ≥ 30 mm (1.18")
Degree of protection (IEC/EN 60529, EN50178, VBG 4) IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1)			l.e	Inclination from vertical: ±45° (if using natural convection)
	•		kg	
	Degree of protection (IEC/EN 60529, EN50178, VBG 4)			

			NEMA12 (as per NEMA 250-2003)
Approvals			
Approvals			cUL 61010-2-201
shipping classification			DNV GL
			DNV-GL MARITIME
Applied standards and directives			
EMC			2004/108/EEC
Emitted interference			IEC/EN 61000-6-4
Interference immunity			IEC/EN 61000-6-2
Product standards			EN50178/IEC/EN 61131-2
Mechanical shock resistance		g	15g / 11ms
Vibration			59 Hz +- 3.5 mm 960 Hz +- 0.15 mm 60150 Hz ± 2 g
Free fall, packaged		m	IEC/EN 60068-2-31
RoHS			conform
Environmental conditions			
Climatic environmental conditions			
Climatic proofing			Cold to EN 60068-2-1 Dry heat to IEC 60068-2-2 Damp heat as per EN 60068-2-3
Air pressure (operation)		hPa	795 - 1080
Temperature			
Storage / Transport	9	°C	-20 - +60
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	+ 50
Relative humidity			
Condensation			Non-condensing

Design verification as per IEC/EN 61439

Relative humidity

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	14.4
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	50
Degree of Protection			IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1) NEMA 4X
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 - 95%, non-condensing

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

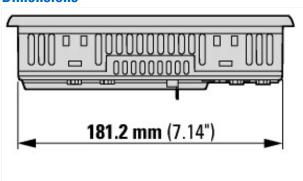
PLC's (EG000024) / Graphic panel (EC001412)				
Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Graphic panel (HMI) (ecl@ss10.0.1-27-33-02-01 [AFX016003])				
Supply voltage AC 50 Hz	V	0 - 0		
Supply voltage AC 60 Hz	V	0 - 0		
Supply voltage DC	V	19.2 - 30		
Voltage type of supply voltage		DC		
Number of HW-interfaces industrial Ethernet		1		
Number of interfaces PROFINET		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 parallel		0		
Number of HW-interfaces Wireless		0		
Number of HW-interfaces other		1		
With SW interfaces		Yes		
Supporting protocol for TCP/IP		Yes		
Supporting protocol for PROFIBUS		No		
Supporting protocol for CAN		Yes		
Supporting protocol for INTERBUS		No		
Supporting protocol for ASI		No		
Supporting protocol for KNX		No		
Supporting protocol for MODBUS		Yes		
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		Yes		
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		

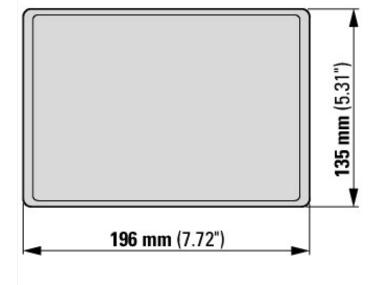
Halo standard Elvelosom No Redio standard SNR No When color display Pa Number of policy seales/funcacles of display 19772787 Number of glory-seales/funcacles of display 9 Screen dispoal 9 Number of glory-seales/funcacles of display 9 Number of glory-seales/funcacles 9 Number of plosels, vertical 9 Number of display search (function butters and conference) 9 Number of plosels vertical (function butter and conference) 9 <t< th=""><th></th><th></th><th></th></t<>			
Radio standard GNR Na Nach Canadard CNR Radio standard LNTTS Na Nach Canadard CNR Unlish master Na Nach Canadard CNR Unlish master Na Yes With colour display Na Yes Number of clours of the display Na Yes Number of pixels, horizontal Na 2 Number of pixels, horizontal Na 7 Number of pixels, horizontal Na 7 With pixels project memory lives memory Na 7 With unmeric keyboard Na Na With alpha numeric keyboard Na Na With alpha numeric keyboard Na Na Number of pixels, butters and confirmation Na Na Number of pixels butters Na Na Number of pixels butters programmable Na Na Number of pixels butters programmable Na Na With message system (incl. buffer and confirmation) Na Yes With recipes Na Y	Radio standard Bluetooth		No
Radio standard SMN No			
Radio standard UMTS Di Inkmatter Type of display Which colour display Number of prey-selesiblue-scales of display Number of hutters with LED Number of hutters with LED Number of hutters with LED Number of substantial output possible Number of passward invelse Number of protection (Pkt rons de Number of prot			No
Dink master			No
Type of display FTF With colour display 1	Radio standard UMTS		No
With colour display Yes Number of colours of the display 1677216 Number of prey-scales/blue-scales of display 2 Number of preyscales/blue-scales of display 2 Number of prixels, horizontal 3 4 Number of pixels, vertical 3 4 Useful project memory/user memory 6 1874 With numeric keyboard 8 4 Number of buttons, programmable 9 6 Number of system buttons 9 6 Number of system buttons 9 6 Number of system buttons 9 7 Number of possible of the number of system buttons 9 7 Number of possible of the number of system buttons 9 7 Number of possible of the number of system buttons 9 7 Number of possible of button buttons programmable 9			No
Number of colours of the display Remain of grey-scales/blue-scales of display 6 0 Screen diagonal inch 7 4	Type of display		TFT
Number of grey-seles/blue-seles of display Per billion of press, bertinder of pixels, bortzontal Per billion of pixels, bortzontal Pe billion of pixels	With colour display		Yes
Screen diagonal Inch 7 Number of pixels, horizontal 1024 1024 Number of pixels, vertical 60 1000 1000 Useful project memory/user memory 1000 1000 1000 With numeric keyboard 100 No 1000 1000 With alpha numeric keyboard 100 1000 <td>Number of colours of the display</td> <td></td> <td>16777216</td>	Number of colours of the display		16777216
Number of pixels, borizontal 1024 Number of pixels, vertical 600 Useful roject memory/user memory 6 by 15000 With numeric keyboard 6 by 15000 With alpha numeric keyboard 6 by 10 c Number of buttons, programmable 6 c 10 c Number of buttons with LED 10 c 10 c Number of system buttons 10 c 2 c 10 c With message indication 10 c 2 c <td>Number of grey-scales/blue-scales of display</td> <td></td> <td>0</td>	Number of grey-scales/blue-scales of display		0
Number of pixels, vertical 60 Useful project memory/user memory KByte 512000 With unmeric keyboard No With alpha numeric keyboard No No Number of function buttons, programmable O O Number of system buttons O O Number of system buttons O O Touch tachnology C Capacitive multitouch With message indication Yes Ves Process value representation (output) possible Yes Ves Process value representation (output) possible Yes Ves With recipes Yes Ves With recipes Yes Ves With printer output Yes Ves With printer output Yes Ves Mumber of online languages Yes Ves Additional software components, loadable Yes Ves Degree of protection (NEMA), front side Yes Yes Operation temperature Yes Yes All mounting/direct mounting <th< td=""><td>-</td><td>inch</td><td>7</td></th<>	-	inch	7
Useful project memory/user memory kByte 512000 With numeric keyboard 1 No With alpha numeric keyboard 1 No Number of function buttons, programmable 1 0 Number of buttons with LED 1 0 Number of system buttons 2 1 0 Touch technology 6 2 4 2 With message indication 8 1 8 1 With message system (incl. buffer and confirmation) 8 1 8 1 8 Process default value (input) possible 9 1 9 8 1 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Number of pixels, horizontal		1024
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Suitable for safety functions No Width of the front mm 196 Height of the front mm 135	With message indication With message system (incl. buffer and confirmation) Process value representation (output) possible Process default value (input) possible With recipes Number of password levels With printer output Number of online languages Additional software components, loadable Degree of protection (IP), front side Degree of protection (NEMA), front side	2°	Yes Yes Yes Yes Yes Yes 200 Yes 100 Yes 112
Width of the front mm 196 Height of the front mm 135	With message indication With message system (incl. buffer and confirmation) Process value representation (output) possible Process default value (input) possible With recipes Number of password levels With printer output Number of online languages Additional software components, loadable Degree of protection (IP), front side Degree of protection (NEMA), front side Operation temperature	°C	Yes Yes Yes Yes Yes Yes 200 Yes 100 Yes 1P65 12 0 - 50
Height of the front mm 135	With message indication With message system (incl. buffer and confirmation) Process value representation (output) possible Process default value (input) possible With recipes Number of password levels With printer output Number of online languages Additional software components, loadable Degree of protection (IP), front side Degree of protection (NEMA), front side Operation temperature Rail mounting possible	°C	Yes Yes Yes Yes Yes Yes 200 Yes 100 Yes 112 0 - 50 No
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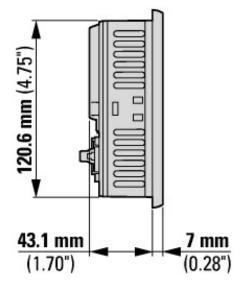
Approvals

Product Standards	UL 61010-2-201; IEC/EN 61131-2; CE
UL File No.	E205091
North America Certification	UL listed, certified by UL for use in Canada
Specially designed for North America	No
Current Limiting Circuit-Breaker	No
Degree of Protection	IEC: IP65, NA: NEMA4X, NEMA12

Dimensions







XV-303-... multi-touch panel with 7" screen diagonal; version: flush mounting

