DATASHEET - XV-303-15-C02-A00-1C



User interface with PLC, 24VDC, 15.6-inch PCT widescreen display, 1366x768 pixels, 2xEthernet, 1xRS232, 1xRS485, 1xCAN, 1xProfibus, 1xSD card slot



Part no. XV-303-15-C02-A00-1C

Catalog No. 191074

Alternate Catalog XV-303-15-C02-A00-1C

No.

Similar to illustration

Delivery program

Delivery program		
Product range		XV300 15.6"
Product range		XV-303
Function		HMI-PLC (integrated SPS function)
Description		Control panel with PLC, PROFIBUS, and 2nd Ethernet port
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	WXGA 1366 x 768
Portrait format		yes
Screen diagonal	Inch	15.6 widescreen
Model		Glass panel in aluminum bezel with die-cast aluminum enclosure and plastic enclosure
Operating system		Windows Embedded Compact 7 Pro
PLC-licence		PLC licence inclusive
License certificates for onboard interfaces		Not required
built-in interfaces		2 x Ethernet 10/100 Mbps 1 x RS232 1 x RS485 1 x CANopen®/easyNet 1 x USB host 2.0 1 x USB device 1 x PROFIBUS/MPI
Front type		Non-reflective tempered glass in aluminum frame
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	21.6

Technical data Display

Display - Type			Color display, TFT, anti-glare
Screen diagonal			15.6 widescreen
Resolution			WXGA 1366 x 768
Visible screen area		mm	344.23 x 193.54
Format			16:9
Viewing range	[left/right/up/ down]	o (Degrees)	85°/85°/80°/80°

Number of colours			16777216 (Color donth 24 bit)
0			16777216 (Color depth 24 bit)
Contrast ratio (Normally)			Normally 500:1
Brightness		cd/m ²	Normally 300
Back-lighting			LED dimmable via software
Service life of back-lighting		h	Normally 50000
Operation			
Technology			Projected Capacitive Touch (PCT)
Touch sensor			Multi-touch touch panel
System			
Processor			ARM Cortex-A9 800 MHz
Internal memory			DRAM: 512 MB RAM Flash: 1GB SLC NVRAM: 128kB Retain
External memory			SD card, Type: SDSC, SDHC
Cooling			Fanless CPU and system cooling, natural convection-based passive cooling
Back-up of real-time clock			
Battery (service life)			non-replaceable, BR2330 soldered in
Backup (time at zero voltage)			Normally 10 years
Engineering			
Visualisation software			GALILEO XSOFT-CODESYS
PLC-Programming software			XSOFT-CODESYS-2 XSOFT-CODESYS-3
Target and web visualization			Yes
PLC-licence			PLC licence inclusive
Operating system			Windows Embedded Compact 7 Pro
Interfaces, communication			
USB Host			1 x RS232 1 x RS485 1 x CANopen®/easyNet 1 x USB host 2.0 1 x USB device 1 x PROFIBUS/MPI USB 2.0, not galvanically isolated
USB 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			Not galvanically isolated, 9-pin D-sub plug, UNC
Profibus			PROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC
Slots			for SD card: 1
Ethernet			10/100 Mbps
MPI			Yes
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	21.6
Power consumption		W	Normally 16
Heat dissipation		W	21.6
Note on heat dissipation			Heat dissipation with power consumption for 24 V 19.1 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			

Front type			Non-reflective tempered glass in aluminum frame
Dimensions (W x H x D)		mm	404 x 255 x 53
flush mounted			Clearance: W x H \geq 50 mm (1.97"), T \geq 20 mm (0.79") Inclination from vertical: # \leq \pm 10 ° (if using natural convection) Mounting plate: min. 1.5 mm (0.06"), max. 4 mm
Weight		kg	3.9
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) NEMA 4X NEMA12 (as per NEMA 250-2003)
Approvals			
Approvals			cUL 61010-2-201
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	21.6
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 NEMA12 (as per NEMA 250-2003)
C/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

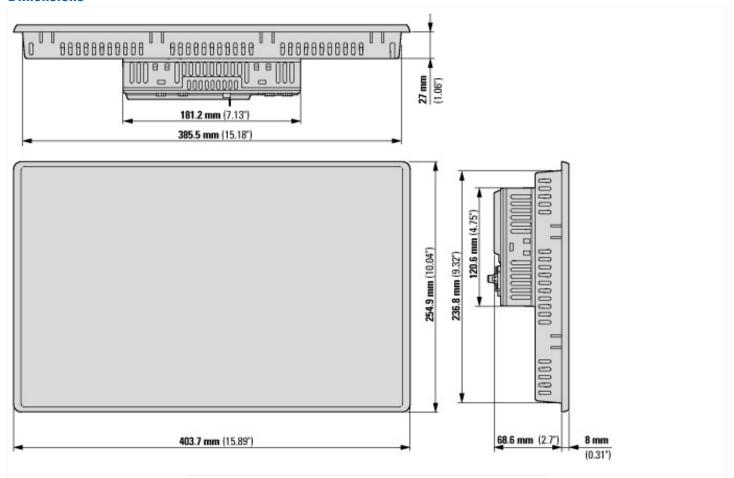
100mmodr udta Ermi 7.0			
PLC's (EG000024) / Graphic panel (EC001412)			
Electric engineering, automation, process control engineering / Display and	control component / Panel (HMI) / Graphic panel (HMI) (ecl@ss10.0.1-27-33-02-01 [AFX0160	03])
Supply voltage AC 50 Hz	V	0 - 0	
Supply voltage AC 60 Hz	V	0 - 0	
Supply voltage DC	V	19.2 - 30	
Voltage type of supply voltage		DC	
Number of HW-interfaces industrial Ethernet		2	
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	
Nith SW interfaces		Yes	
Supporting protocol for TCP/IP		Yes	
Supporting protocol for PROFIBUS		Yes	
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	

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Radio standard GNR Na Radio standard SMR Na Radio standard LMTS Na Unlish master Na Will Collish master Na Will Color display PE Will Color display PE Number of clours of the display PE Number of pixels, horizontal PE Number of pixels, horizontal PE Number of pixels, horizontal PE With pixels memory/user memory PE With pixels numeric keyboard PE Number of pixels horizontal PE Number of pixels buttons programmable PE Number of pixels buttons programmable PE With message system finds. buffer and confirmation) PE With message system finds. buffer and confirmation) PE With recipes PE Number of pixessoule representation loutput	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 huttons with LED Number of huttons with LED Number of huttons with LED Number of sulfaction Number of sulfaction output possible Number of passward levels Number of passward levels Number of passward levels Number of passward levels Number of protection (Pkt ront side Number of prot			No
Dink master			No
Type of display FTF With colour display 98 Number of colours of the display 98 Number of pry-scales/follus-cales of display 100 Screen diagonal 100 Number of pixels, horizontal 100 With mumeric keyboard 100 With numeric keyboard 100 Number of function buttons, programmable 100 Number of function buttons, programmable 100 Number of function buttons, programmable 100 Number of system buttons 100 Touch technology 100 With message indication 100 With message system (incl. buffer and confirmation) 100 Process value are presentation (output) possible 100 Process value are presentation (output) possible 100 With printer output 100 With printer output 100 Number of online languages 100 Addition is of var	Radio standard UMTS		No
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Number of grey-sceles/blue-sceles of display Polity 15.6 Screen diagonal 1.36 1.36 Number of pixels, horizontal 2.36 1.36 Number of pixels, horizontal 2.81 1.32 Number of pixels, vertical pixels, vertical prices themory/user memory 2.82 1.2 With numeric keyboard 2.82 1.0 Number of function buttons, programmable 2.92 1.0 Number of system buttons 2.92 1.0 Number of system buttons 2.92 1.0 Number of system buttons 2.92 1.0 With message system finct-buffer and confirmation 2.92 1.0 With message system finct buffer and confirmation 2.92 1.0 Process dealuf value (input) possible 2.92 1.0 With recipes 2.92 1.0	With colour display		Yes
Screen diagonal Image: Im	Number of colours of the display		16777.216
Number of pixels, borizontal 1,386 Number of pixels, vertical 6 84 Useful project memory/user memory 6 8/92 152 With numeric keyboard 9 6 8 With alpha numeric keyboard 9 6 9 Number of buttons, programmable 9 6 9 Number of buttons with LED 9 1 1 Number of system buttons 9 6 2 1 With message indication 9 6 8 8 1 8 With message system (not. buffer and confirmation) 9 7 8 8 9 1 9 9 9 9 1 1 9 <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 KB 788 Useful project memory/user memory KB 512 With numeric keyboard No No With alpha numeric keyboard No 0 Number of function buttons, programmable 0 0 Number of system buttons 1 0 Number of system buttons 1 1 Touch tachnology 2 2 2 With message indication 9 4 9 With message system (incl. buffer and confirmation) 9 7 9 Process value representation (output) possible 9 7 9 With recipes 9 7 9 With recipes 9 9 9 With printer output 9 9 9 With printer output 9 9 9 Mumber of online languages 9 9 9 Additional software components, loadable 9 9 9 Degree of protection (NEMA), front side 9 9		inch	15.6
Useful project memory/user memory kByte 512 With numeric keyboard No No With alpha numeric keyboard No No Number of function buttons, programmable Po 10 Number of buttons with LED 10 1 Number of system buttons Capacitive multitouch Capacitive multitouch Touch technology Yes Yes With message system (incl. buffer and confirmation) Yes Yes Process value representation (output) possible Yes Yes Process default value (input) possible Yes Yes With printer output Yes Yes Number of naisword levels Yes Yes Number of online languages Yes Yes Additional software components, loadable Yes Yes Degree of protection (NEMA), front side Yes Yes Degree of protection (NEMA), front side Yes Yes Degree of protection (NEMA), front side Yes Yes Quality of the front Yes Yes Qua	Number of pixels, horizontal		1.366
With numeric keyboard Key No. With alpha numeric keyboard Key No. Number of function buttons, programmable Key No. Number of buttons with LEO Key No. Number of buttons with LEO Key No. Number of system buttons Key No. Touch choology Key No. With message indication Key No. With message system (incl. buffer and confirmation) Key No. With message system (incl. buffer and confirmation) Yes Process value representation (butput) possible Yes Process default value (input) possible Yes With recipes Yes Number of password levels Yes Number of password levels Yes Number of online languages Yes Additional software components, loadable Yes Degree of protection (IP), front side Yes Degree of protection (IP), front side Yes Rail mounting direct mounting Yes Will mounting/direct mounting Yes Vial mounting/direct mounting Yes Will he first first first first fir			768
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Number of password levels With printer output Ves Number of online languages 100 Additional software components, loadable Degree of protection (IP), front side Degree of protection (NEMA), front side Degree of protection (NEMA), front side Operation temperature Operation temperature Rail mounting possible Wall mounting/direct mounting Suitable for safety functions Width of the front Midth of the front Midth of the front Mim Midth of the front Mim Midth of the front Mim Midth of the front Mind Mim Midth of the front Mind Mind Mind Mind Mind Mind Mind Mind	With message indication With message system (incl. buffer and confirmation)		Yes Yes
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Degree of protection (IP), front side Degree of protection (NEMA), front side 12 Operation temperature Operation temperature Rail mounting possible Wall mounting/direct mounting Suitable for safety functions Width of the front Mo Width of the front Mm Width of the front Width of the front Mm Width of the front Width of the front	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		Yes Yes Yes Yes Yes 200
Degree of protection (NEMA), front side 12 Operation temperature Rail mounting possible Wall mounting/direct mounting Suitable for safety functions Width of the front Meight of the front No 12 No No No No Suitable for safety functions mm 404 Height of the front mm 255	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		Yes Yes Yes Yes Yes Yes Yes Yes Yes
Operation temperature Rail mounting possible Wall mounting/direct mounting Suitable for safety functions Width of the front Meghant	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		Yes Yes Yes Yes Yes Yes Yes 100
Rail mounting possible Wall mounting/direct mounting No Suitable for safety functions No Width of the front mm 404 Height of the front mm 255	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		Yes Yes Yes Yes Yes 200 Yes 100 Yes
Wall mounting/direct mounting Suitable for safety functions Width of the front Height of the front No mm 404 Height of the front mm 255	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		Yes Yes Yes Yes Yes Yes Yes 100 Yes 1P65
Suitable for safety functions No Width of the front mm 404 Height of the front mm 255	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	°C	Yes Yes Yes Yes Yes Yes 200 Yes 100 Yes 112
Width of the front mm 404 Height of the front mm 255	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 Yes 100 Yes 100 Yes 1P65 12 0 - 50
Height of the front mm 255	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
	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 Wall mounting/direct mounting	°C	Yes Yes Yes Yes Yes 200 Yes 100 Yes 1P65 12 0 - 50 No
Built-in depth mm 75.5	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 Wall mounting/direct mounting Suitable for safety functions		Yes Yes Yes Yes Yes Yes 200 Yes 100 Yes 100 No No
	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 Wall mounting/direct mounting Suitable for safety functions Width of the front	mm	Yes Yes Yes Yes Yes Yes 200 Yes 100 Yes 100 Yos IP65 12 0 - 50 No No No No

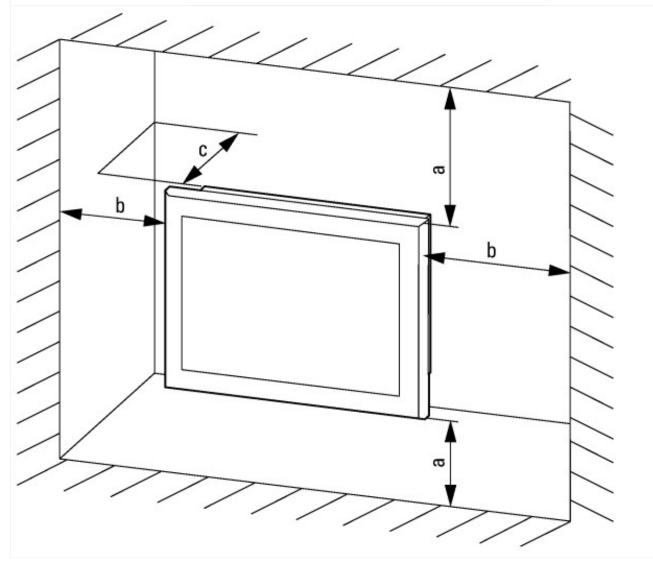
Approvals

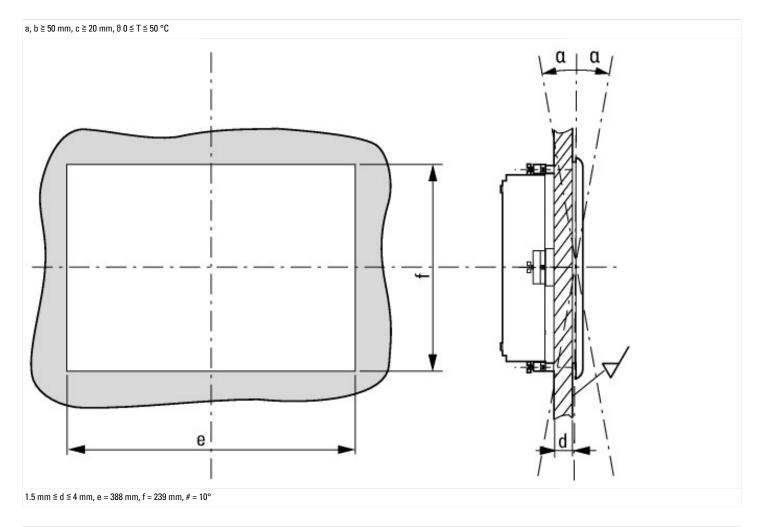
North America Certification	Request filed for UL
Specially designed for North America	No
Current Limiting Circuit-Breaker	No
Degree of Protection	IEC: IP65, NA: NEMA4X, NEMA12

Dimensions



XV-303-... multi-touch panel with 15.6" screen diagonal; version: flush mounting





Additional product information (links)

https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL048009ZU.pdf
https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL048009ZU2018_06.pdf
https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN048017_DE.pdf
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http://applications.eaton.eu/sdlc?LX=11&
http://www.eaton.eu/XV300