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



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



XV-303-15-C02-A00-1B Part no. 191073

Catalog No.

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

No.

Similar to illustration

Delivery program

benvery program		
Product range		XV300 15.6"
Product range		XV-303
Function		HMI-PLC (SPS function, retrofittable)
Description		Control panel with 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		Can be fitted by user with article no. 181585 LIC-PLC-A
License certificates for onboard interfaces		Not required
built-in interfaces		2 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 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°

Descriptions Paramethy P	Number of colours			16777216 (Color depth 24 bit)
	Contrast ratio (Normally)			
Service Instruction for trace-ingeling			cd/m ²	
Service if not hack lighting	Back-lighting		oujiii	IFD
Protected Prot	Soon ng.tang			
February Posential Capacitum Couth PCT System	Service life of back-lighting		h	Normally 50000
Section				
System Processarie ARM Contex-No 800 MHz Processarie ARM Contex-No 800 MHz External memory 50 mAx 55 MB RAM No WHANK (2888 Reatin) External memory 50 mAx 79 memory SDSCS, SDIC Coulting 50 mAx 79 memory SDSCS, SDIC Backup for read-firm clock 50 mAx 79 memory SDSCS, SDIC Backup for read-firm clock 70 mon-registreaded, SRIZXXX soldered in Backup for read-firm clock 70 mon-registreaded, SRIZXXX soldered in PLC Programming software 30 mon-registreaded, SRIZXXX soldered in Valualisation controlled 30 mon-registreaded, SRIZXXX soldered in Valualisation controlled 30 mon-registreaded, SRIZXXX soldered in PLC Programming software 30 mon-registreaded, SRIZXXX soldered in Valualisation controlled 30 mon-registreaded, SRIZXXX soldered in Not Colleges 30 mon-registreaded, SRIZXXXX soldered in Not Colleges 30 mon registr	Technology			Projected Capacitive Touch (PCT)
Processor Internal manory Carling Electronal memory Carling Electronal memory Carling Electronal memory Electronal memory Carling Electronal memory Electronal				Multi-touch touch panel
Internal memory Extensal memory Cooling External memory Cooling External memory Cooling External memory External memory Cooling External memory Exte				ADM Control AG GOO MILE
Pasht 108 SLC NPARL 128A Bratin Pasht 108 SLC NPARL 128A Bratin NPARL 128A B				
Backup frail-time clock Backup frime at zero woltage) Backup frime at zero woltage) Final security Final security Backup frime at zero woltage) Final security Fina	Internal memory			Flash: 1GB SLC
Backup interaction clock Battery parried field Backup interact error voltage) Figure interaction and voltage in a controllage in a controllag	External memory			SD card, Type: SDSC, SDHC
Bacterry tservice life) Backup (time at zero voltage) Engineering FUE-Programming software PUE-Programming software PUE-Programming software PUE-Income Operating system Interfaces, Communication Built-in interfaces PUE-Bactery than who visualization PUE-Bactery than who visualization PUE-Bactery than who visualization PUE-Bactery than the programming software PUE-Bactery than the programming softwar	Cooling			Fanless CPU and system cooling, natural convection-based passive cooling
Rackup (inne at zero voltage) Full Programming software PLC-Programming software PLC-Programming software PLC-Programming software PLC-Programming software PLC-Programming software PLC-Programming software PLC-Canne Operating system Interface Interfaces Inte	Back-up of real-time clock			
Page	Battery (service life)			non-replaceable, BR2330 soldered in
PLC-Programming software SUSPE-CODESYS XSDF-CODESYS XSDF-C	Backup (time at zero voltage)			Normally 10 years
PLC-Programming software PLC-Programming software Target and web visualization PLC-Genece Operating system Interfaces, communication Interfaces Built-in interfaces Interfaces Built-in interfaces Inter	Engineering			
Target and web visualization PLC-ticence P				
PLE-licance Operations yeastem Interfaces, communication built-in interfaces built-in inter	PLC-Programming software			
District Second Secon	Target and web visualization			Yes
Numericaces, communication	PLC-licence			Can be fitted by user with article no. 181585 LIC-PLC-A
built-in interfaces Second Second	Operating system			Windows Embedded Compact 7 Pro
LUSB Host USB Host USB Host USB device 1	Interfaces, communication			
USB device RS-232 RS-485 RS	Duit-in interfaces			1 x RS232 1 x RS485 1 x USB host 2.0 1 x USB device 1 x CANopen®/easyNet
RS-232 RS-485 RS	USB Host			USB 2.0, not galvanically isolated
RS-485 CAN CAN CAN Profibus Profibus Slots Slots Slots Filternet MPI Supply Nominal voltage permissible voltage Prower consumption Power consumption Power consumption Power consumption Power dissipation Note on heat dissipation Protection against polarity reversal Type of fuse Potential isolation RS-485 ROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC PROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC PROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC PROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC PROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC PROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC PROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC Profibus SUB-DB, card: 1 10/100 Mbps 4 Ves 4 V D C SELV (safety extra low voltage) Fflective: 19.2-30.0 V DC (rated operating voltage -20%/+25%) Absolute with inple: 18.0-31,2 V DC Satery powered: 18.0-31,2 V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of -1 00 ms \$ 10 ms from rated voltage (24 V DC) \$ 5 ms from undervoltage (19.2 V DC) Power consumption Pmax W 21.6 Note on heat dissipation W 21.6 Heat dissipation with power consumption for 24 V 19.1 W for basic device + 2.5 W for USB module Protection against polarity reversal Type of fuse Ves (fuse not accessible) no General Housing material	USB device			USB 2.0, not galvanically isolated
CAN Profibus Prover supply Power supply Nominal voltage Permissible voltage Permissible voltage Profibus Prover consumption Prover consumption Prover consumption Prover consumption Prover consumption Protection against polarity reversal Protection against polarity reversal Protential isolation Power cansum material Protection Pro	RS-232			Not galvanically isolated, 9-pin D-sub plug, UNC
Profibus Slots Ethernet MPI Prower supply Nominal voltage permissible voltage Voltage dips Voltage dips Voltage dips Pass Pass Pass Voltage dips Pass Pass Voltage dips Voltage dips Pass Voltage dips	RS-485			Not galvanically isolated, 9-pin D-sub plug, UNC
Slots Ethernet MPI MPI Power supply Nominal voltage permissible voltage Nominal voltage permissible voltage Power consumption Power con	CAN			Not galvanically isolated, 9-pin D-sub plug, UNC
Ethernet MPI Power supply Nominal voltage permissible voltage Voltage dips ms ≤ 10 ms from rated voltage (24 V DC) 5 ms from undervoltage (19.2 V DC) Power consumption Power consumption Power consumption Heat dissipation Note on heat dissipation Protection against polarity reversal Type of fuse Potential isolation Ceneral Housing material Housing material Housing material Housing material A V DC SELV (safety extra low voltage) Effective: 19.2-30.0 V DC (rated operating voltage -20%/+25%) Absolute with ripple: 18.0-31.2 V DC Baftery powered: 18.0-31.2 V DC (rated operating voltage -25%/+30%) Safe V DC for a duration of < 100 ms Fife cive: 19.2-30.0 V DC (rated operating voltage -25%/+30%) Safe V DC for a duration of < 100 ms Voltage dips Type of low Pmax. V 21.6 Heat dissipation with power consumption for 24 V 19.1 W for basic device + 2.5 W for USB module Yes (fuse not accessible) no General Housing material	Profibus			PROFIBUS-DP, not galvanically isolated, 9 pole SUB-D socket, UNC
MPI Power supply Nominal voltage permissible voltage Voltage dips Voltage dips Power consumption Aluminium die-cast (glass panel)	Slots			for SD card: 1
MPI Power supply Nominal voltage permissible voltage Voltage dips Voltage dips Power consumption Power consumption Power consumption Heat dissipation Note on heat dissipation Type of fuse Potential isolation General Housing material Voltage dips Yes 24 V DC SELV (safety extra low 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 Battery powered: 18,0-31,2 V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms Fiffective: 19.2-30.0 V DC (rated operating voltage -25%/+25%) Aluminium die-cast (glass panel)	Ethernet			10/100 Mbps
Power supply Nominal voltage permissible voltage Power consumption Power consumption Power consumption Power consumption Heat dissipation Note on heat dissipation Type of fuse Potential isolation General Housing material Power supply 24 V DC SELV (safety extra low 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 \$ \left\text{ 10 ms from rated voltage (24 V DC)} \text{ 5 ms from undervoltage (19.2 V DC)} \text{ 5 ms from undervoltage (19.2 V DC)} \text{ 16} W Normally 16 Heat dissipation with power consumption for 24 V 19.1 W for basic device + 2.5 W for USB module} Protection against polarity reversal Type of fuse Potential isolation Aluminium die-cast (glass panel)	MPI			
Nominal voltage permissible voltage Voltage dips Voltage dips Voltage dips Power consumption Woltage dips Woltage dips Woltage dips Woltage dips Woltage dips Woltage dips Woltage (19.2 V DC) Power consumption Woltage (19.2 V DC) Woltage (19.2 V DC) Power consumption Woltage (19.2 V DC) Woltage (19.2				
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 21.6 Power consumption W Normally 16 Heat dissipation Note on heat dissipation W 21.6 Heat dissipation with power consumption for 24 V 19.1 W for basic device + 2.5 W for USB module Protection against polarity reversal Type of fuse Potential isolation General Housing material 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 V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) 35 V DC for a duration of < 100 ms V DC (rated operating voltage -25%/+30%) Normally 16 V DC (rated operating voltage -25%/+30%) V DC (rated operating voltage -25%/+30%) V DC (rated operating voltage -25%/+30%) Heat dissipation with power consumption for 24 V 19:1 W for basic device + 2.5 W for USB module V Potential isolation A purple of the formation of the formation of the format				24 V DC SELV (safety extra low voltage)
Fower consumption Power consumption Power consumption Power consumption Power consumption Would be a dissipation Would be a dissipation Would be a dissipation Would be a dissipation with power consumption for 24 V 19.1 W for basic device + 2.5 W for USB module Protection against polarity reversal Type of fuse Potential isolation General Housing material Aluminium die-cast (glass panel)	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 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 Type of fuse Potential isolation General Housing material Housing material Aluminium die-cast (glass panel)	Voltage dips		ms	
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 Type of fuse Yes (fuse not accessible) Potential isolation General Housing material Aluminium die-cast (glass panel)	Power consumption	P _{max} .	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 Type of fuse Potential isolation General Housing material Housing material Housing material	Power consumption		W	Normally 16
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 Type of fuse Yes (fuse not accessible) Potential isolation General Housing material Aluminium die-cast (glass panel)	Heat dissipation		W	21.6
Protection against polarity reversal Protection against polarity reversal Type of fuse Potential isolation General Housing material Housing material 19.1 W for basic device + 2.5 W for USB module yes Yes Yes (fuse not accessible) no Aluminium die-cast (glass panel)				Heat dissipation with power consumption for 24 V
Type of fuse Yes (fuse not accessible) Potential isolation General Housing material Yes (fuse not accessible) no Aluminium die-cast (glass panel)				19.1 W for basic device + 2.5 W for USB module
Potential isolation no General Housing material Aluminium die-cast (glass panel)				<u>'</u>
General Housing material Aluminium die-cast (glass panel)				
Housing material Aluminium die-cast (glass panel)				
Insulated material black				Aluminium die-cast (glass panel) Insulated material black

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	θ	°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)
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

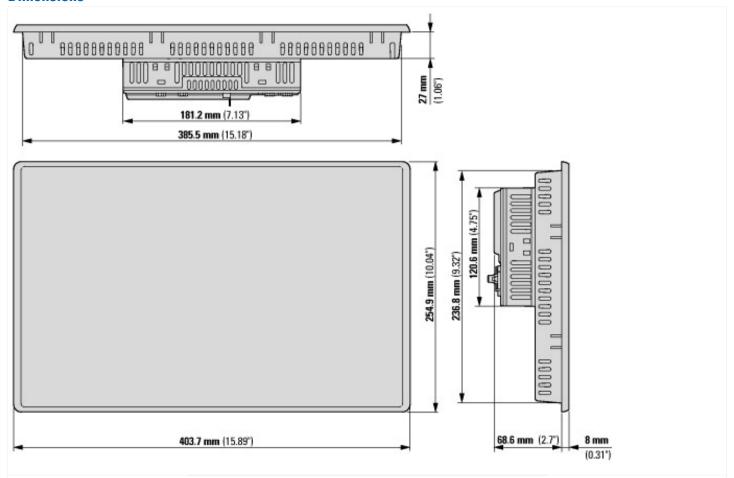
100mmodr udta Ermi 7.0			
PLC's (EG000024) / Graphic panel (EC001412)			
Electric engineering, automation, process control engineering / Display and	control component / Panel (HMI) / Graphic panel (HMI) (ecl@ss10.0.1-27-33-02-01 [AFX0160	003])
Supply voltage AC 50 Hz	V	0 - 0	
Supply voltage AC 60 Hz	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	
With 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	

Radio standard WLAN 802.11 Ko Radio standard GPRS No Radio standard GSM No Radio standard UMTS No 10 link master No Type of display Tes With colour display Frs Number of colours of the display 677216 Number of grey-scales/blue-scales of display 677216 Number of pixels, horizontal 68 Number of pixels, vertical 76 Useful project memory/user memory 88 With numeric keyboard No With alpha numeric keyboard No Number of function buttons, programmable 6 Number of system buttons 6 With alpha numeric keyboard 70 Number of function buttons, programmable 70 Number of system buttons 70 Number of system buttons 70 Number of system buttons 70 Number of system buttons with LED 70 Number of system buttons 70 Touch technology 70 With message indication			
Radio standard SPRS No Radio standard SM No Nadio standard SMS No Inclin Master No Type of display FF With colour display Yes Number of colors of the display No Screen diagonal Incl. Number of pieses, borboral Incl. With quarrie keybaard Incl. With alpha numeric keyboard Incl. Number of pieses borboral Incl. Number of system buttons Incl. Number of system buttons to buffer and confirmation	Radio standard Bluetooth		No
Radio standard SMS No Radio standard LMTS No O lou kmaster PC Vibre of display TF With colour display 1077216 With colour display 1077216 Number of colours of the display 10 1577216 Number of ploels, bericontal 10 158 Number of ploels, bericontal 10 158 Number of ploels, bericontal 10 10 With unmaric keyboard 10 10 With project mission swift LED 10 10 Number of lunction buttons, programmable 10 10 With message system funct, buffer and confirmation 10 10 With message system funct, buffer and confirmation 10 10 With ricesse 10 10	Radio standard WLAN 802.11		No
Ratio standard UMTS 10 link master 10 link master 10 per of display 10 per of display	Radio standard GPRS		No
10 link master 10 link master Type of display 17 With color display 1877716 Number of Journal of the display 18777216 Number of grey-scales/plue-scales of display 10 Screen diagonal 18 light Number of pixels, horizontal 18 light Substitution of pixels, horizontal 18 light With numeric keyboard 18 light With numeric keyboard 18 light With project memory/user memory 18 light With project memory/user memory 18 light With master file young and matter keyboard 18 light With master of years in buttons 18 light Number of Intection button, programmable 18 light Number of system buttons 18 light With message indication 18 light	Radio standard GSM		No
Type of display FT With colour display 14 78 Number of proy-scales for display 17 7771761 Screen diagnon 15 15 Number of pixels, horizontal 18 18 Number of pixels, horizontal 18 186 Number of pixels, vertical 18 180 With manneric keyboard 18 19 With manneric keyboard 19 10 Number of function buttons, programmable 19 10 With manneric keyboard 19 10 Number of function buttons, programmable 19 10 With massage indication 19 10 With message indication 19 12 With message system buttons 19 18 Process value uppresentation (output) possible 19 18 Process value uppresentation (output) possible 19 18 With printer output 19 19 18 Number of online languages 19 19 18 Additional sof	Radio standard UMTS		No
With colour display % 45 7577216 Number of colours of the display 6 7577216 </td <td>10 link master</td> <td></td> <td>No</td>	10 link master		No
Number of colours of the display 6 1777216 Number of grey-scales/blue-scales of display 6 10 Screen diagonal inch 15 6 Number of pixels, horizontal 78 78 Number of pixels, vertical 78 78 Useful project memory/user memory Mey 5 1000 With alpha numeric keyboard Mey 10 With alpha numeric keyboard Mey 10 Number of buttons yeth LEO 10 10 Number of buttons with LEO 10 10 Number of system buttons 10 10 Touch technology 2 10 With message system (incl. buffer and confirmation) 2 10 With message system (incl. buffer and confirmation) 2 10 Process value representation (output) possible 2 10 With recipes 2 10 With recipes 2 10 With recipe 2 10 With recipe 2 10 Number of password levels 2 10	Type of display		TFT
Number of gray-scalea/blue-scales of display In part of proxists, horizontal In part of pixels, vertical In part of pix	With colour display		Yes
Screen diagonal inch 15.6 Number of pixels, horizontal 100 1366 Number of pixels, vertical 200 788 Useful project memory/user memory 200 12000 With numeric keyboard 200 No With alpha numeric keyboard 200 No Number of function buttons, programmable 200 100 Number of buttons with LED 200 200 Number of system buttons 200 200 Touch technology 200 200 With message indication 200 200 With message system (incl. buffer and confirmation) 200 200 With message system (incl. buffer and confirmation) 200 200 With message system (incl. buffer and confirmation) 200 200 With message system (incl. buffer and confirmation) 200 200 With message system (incl. buffer and confirmation) 200 200 With message system (incl. buffer and confirmation) 200 200 With printer output 200 200	Number of colours of the display		16777216
Number of pixels, horizontal 1868 Number of pixels, vertical 788 Useful project memory/user memory 6 Page 12000 With alpha numeric keyboard 6 Page 12000 With alpha numeric keyboard 6 Page 0 Number of buttons, programmable 6 Page 0 Number of buttons with LED 6 Page Page Page Page Page Page Page Page	Number of grey-scales/blue-scales of display		0
Number of pixels, vertical Key 788 Useful project memory/user memory Key 512000 With a numeric keyboard No No Number of function buttons, programmable Po 0 Number of function buttons, programmable 0 0 Number of buttons with LED 0 0 Number of system buttons 6 1 2 Touch technology 2 4 2 2 With message system (incl. buffer and confirmation) 9 4 8 9 8 Process value representation (output) possible 9 4 8 9 8 9 8 9 9 8 9 </td <td>Screen diagonal</td> <td>inch</td> <td>15.6</td>	Screen diagonal	inch	15.6
Useful project memory/user memory KByse \$12000 With numeric keyboard Mo No Number of function buttons, programmable Mo 0 Number of buttons with LED 0 0 Number of system buttons 1 Capacitive multitouch Touch technology Capacitive multitouch Capacitive multitouch With message indication Yes Yes With message system (incl. buffer and confirmation) Yes Yes Process value representation (output) possible Yes Yes With recipes Yes Yes With printer output Yes Yes Number of password levals Yes Yes Number of password levals Yes Yes Videntianal software components, loadshile Yes Yes Degree of protection (IP), front side Yes Yes Degree of protection (NEMA), front side Yes Yes Degree of protection (IP), front side Yes Yes Wall mounting/direct mounting Yes Yes Suitable	Number of pixels, horizontal		1366
With numeric keyboard No With alpha numeric keyboard O Number of function buttons, programmable O Number of buttons with LED O Number of system buttons O Touch technology Cepacitive multitouch With message indication Yes With message system (incl. buffer and confirmation) Yes Process value representation (output) possible Yes Process default value (input) possible Yes With recipes 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 (NEMA), front side Yes Degree of protection (NEMA), front side Yes Rail mounting/direct mounting Yes Will mounting/direct mounting Yes Will mounting/direct mounting Yes Will he front Men Will he front Yes Will he front Yes Yes Yes	Number of pixels, vertical		768
With alpha numeric keyboard Mode Number of function buttons, programmable 6 Number of buttons with LED 0 Number of system buttons 1 Touch technology Capacitive multitouch With message indication Yes With message system (incl. buffer and confirmation) Yes Process value representation (output) possible Yes Process default value (input) possible Yes With recipies Yes Number of password levels Yes Number of password levels Yes With printer output Yes Additional software components, loadable Yes Degree of protection (IP), front side IP65 Degree of protection (NEMA), front side IP65 Degree of protection (NEMA), front side IP65 Degree of protection (NEMA), front side IP65 Query Yes Wall mounting/direct mounting Yes With of the front IP65 With of the front IP65 With of the front IP65 With of the front	Useful project memory/user memory	kByte	512000
Number of function buttons, programmable 6 6 0 Number of buttons with LED 5 0 1<	With numeric keyboard		No
Number of buttons with LED In the control of system buttons In the control of system butt	With alpha numeric keyboard		No
Number of system buttons 1 Touch technology Capacitive multitouch With message indication Yes With message system (incl. buffer and confirmation) Yes Process value representation (output) 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 (NEMA), front side Yes Degree of protection (NEMA), front side Yes Operation temperature Yes Rail mounting Jossible Yes Will mounting/direct mounting Yes Suitable for safety functions Yes Will for the front Yes Will for the front Yes Will for the front Yes Yes Yes Yes Yes Yes Yes Yes	Number of function buttons, programmable		0
Touch technology With message indication With message system (incl. buffer and confirmation) With message system (incl. buffer and confirmation) Process value representation (output) possible Process default value (input) possible With recipes With recipes With recipes With printer output With printer out	Number of buttons with LED		0
With message indication 'es With message system (incl. buffer and confirmation) 'Yes Process value representation (output) possible Yes Process default value (input) possible Yes With recipes Yes With printer output Yes Number of password levels Yes With printer output Yes Number of online languages Yes Additional software components, loadable Yes Degree of protection (IP), front side IP65 Degree of protection (NEMA), front side Yes Operation temperature Yes Rail mounting possible Yes Wall mounting/direct mounting Yes Suitable for safety functions Yes With of the front Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Number of system buttons		1
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Process default value (input) possible With recipes Number of password levels With printer output 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 Process default value (input) possible With recipes Process default value (input) possible Ves Process default value (input) p	With message system (incl. buffer and confirmation)		Yes
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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 Degree of protection (NEMA), front side Operation temperature Rail mounting possible Wall mounting/direct mounting Suitable for safety functions Width of the front Height of the front No 200 Yes 100 100 100 100 100 100 100 1	Process default value (input) possible		Yes
With printer output Number of online languages Additional software components, loadable Degree of protection (IP), front side Degree of protection (NEMA), front side Degree of protection (NEMA), front side Operation temperature PC OF OF OF OF OF OF OF OF OF O	With recipes		Yes
Number of online languages Additional software components, loadable Degree of protection (IP), front side Degree of protection (NEMA), front side Degree of protection (NEMA), front side Oreation temperature Oreation temperature Rail mounting possible Wall mounting/direct mounting Suitable for safety functions Width of the front Height of the front Mo Do Do Do Do Do Do Do Do Do	Number of password levels		200
Additional software components, loadable Degree of protection (IP), front side Degree of protection (NEMA), front sid	With printer output		Yes
Degree of protection (IP), front side Degree of protection (NEMA), 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 Height of the front Minuman March 1965 I 2 Defection (NEMA), front side No No No March 296 No No Hother 1965 No Sold 296 No No Sold 296 No No Sold 296 No No Sold 296 No Sold 296 No Width of the front Minuman March 296 No Sold 296 No Sold 296 No No Width of the front Minuman March 296 No Sold 296 No Sold 296 No No Sold 296 No No No No No No No No No N			
Degree of protection (NEMA), front side Operation temperature Rail mounting possible Wall mounting/direct mounting Suitable for safety functions Width of the front Height of the front No 12 No No No No No No No Suitable for safety functions mm 404 Height of the front mm 255	Number of online languages		100
Operation temperature°C0 - 50Rail mounting possibleNoWall mounting/direct mountingNoSuitable for safety functionsNoWidth of the frontmm404Height of the frontmm255			
Rail mounting possible Wall mounting/direct mounting Suitable for safety functions Width of the front Meight of the front Meight of the front Width of the f	Additional software components, loadable		Yes
Wall mounting/direct mounting No Suitable for safety functions No Width of the front mm 404 Height of the front mm 255	Additional software components, loadable Degree of protection (IP), front side		Yes IP65
Suitable for safety functionsNoWidth of the frontmm404Height of the frontmm255	Additional software components, loadable Degree of protection (IP), front side Degree of protection (NEMA), front side	°C	Yes IP65 12
Width of the front mm 404 Height of the front mm 255	Additional software components, loadable Degree of protection (IP), front side Degree of protection (NEMA), front side Operation temperature	°C	Yes IP65 12 0 - 50
Height of the front mm 255	Additional software components, loadable Degree of protection (IP), front side Degree of protection (NEMA), front side Operation temperature Rail mounting possible	°C	Yes IP65 12 0 - 50 No
	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 IP65 12 0 - 50 No
Built-in depth mm 75.5	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 IP65 12 0 - 50 No No
	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 IP65 12 0 - 50 No No No 404

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

