#### **DATASHEET - XV-303-15-C00-A00-1E**



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



Part no. XV-303-15-C00-A00-1E

Catalog No. 191078

Alternate Catalog XV-303-15-C00-A00-1E

No.

Similar to illustration

**Delivery program** 

| Product range Pr | Delivery program                            |      |  |
|--|---|------|--|
| Function   | Product range                               |      | XV300 15.6"  |
| Description  Common features of the model series  Rose State of SD card Operating System Windows Embedded Compact 7 pro Interpret fortifime visualization software license  Coperating VET, anti-glare  Copacitive multi-floath etchnology (PCT)  Copacitive floath etchnology (PCT)  Copacitive multi-floath etchnology (PCT)  Copacitive floath etchnology (PCT)  Copacitive flo | Product range                               |      | XV-303   |
| Soltware (Engineering), visualization = Visual Designer Common features of the model series  Champing features of the model series  Champing features of the model series  Ethernet interface USB divice Usualization software license Under divident ethnology (PCT) Capacitive multi-touch technology (PCT) (Capacitive multi-touch | Function                                    |      | HMI-PLC (integrated SPS function)  |
| List Brooks and State of State | Description                                 |      |  |
| Touci-technology Number of colours Resolution Resolutio | Common features of the model series         |      | CAN USB device USB Host RS232 RS485 Slot for SD card Operating System Windows Embedded Compact 7 pro |
| Number of colours  Resolution  | Display - Type                              |      | Color display, TFT, anti-glare   |
| Resolution Private Private Private Private Private Private Private Protective tempered glass in aluminum frame Utilization Private Protective tempered glass in aluminum frame Plugable communication cards (optional) Private | Touch-technology                            |      | Capacitive multi-touch technology (PCT)  |
| Portrait format   Portrait f   | Number of colours                           |      | 16777216 (Color depth 24 bit)  |
| Screen diagonal  Model  Model  Operating system  PLC-licence  License certificates for onboard interfaces  built-in interfaces  built-in interfaces  Front type  Utilization  Slots  Memory card automation  Pluggable communication cards (optional)  Touch sensor  Model  Inch  15.6  widescreen  Windows Embedded Compact 7 Pro  Windows Embedded Compact 7 Pro  PLC licence inclusive  Vor required  Vor required  2 x Ethernet 10/100 Mbps 1 x RS2322 1 x RS2322 1 x RS2322 1 x RS2323 1 x CANopen®/easyNet 1 x USB device  Von-reflective tempered glass in aluminum frame  Willization  Flush mounting  for SD card: 1  Optionally with SD card -> article no. 181638  Touch sensor  Multi-touch touch panel  | Resolution                                  | Pixe |  |
| Model       widescreen         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 NS232 1 x NS485 1 x CANopen®/easyNet 1 x USB host 2.0 1 x USB device         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   | Portrait format                             |      | yes  |
| 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 R5232 1 x R5485 1 x CANopen®/easyNet 1 x USB host 2.0 1 x USB device         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  | Screen diagonal                             | Inch |  |
| PLC-licence License certificates for onboard interfaces built-in interfaces built-in interfaces built-in interfaces built-in interfaces license certificates for onboard interfaces built-in interfaces built-in interfaces license certificates for onboard interfaces built-in interfaces license certificates for onboard interfaces built-in interfaces license inclusive license inclusion licens | Model                                       |      |  |
| License certificates for onboard interfaces  built-in interfaces  built-in interfaces  License certificates for onboard interfaces  built-in interfaces  License certificates for onboard interfaces  License certificates  License certificates  License certificates  Not required  Not required  Not passable  Not required  Not passable  License certificates for onboard interfaces  License certificates  License certificates  License certificates  License certificates  License certificates  Not required  License certificates  Not required  Not passable  License certificates  Not required  License certificates  Not passable  License certificates  L | Operating system                            |      | Windows Embedded Compact 7 Pro   |
| built-in interfaces  \$\begin{array}{cccccccccccccccccccccccccccccccccccc  | PLC-licence                                 |      | PLC licence inclusive  |
| 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   | License certificates for onboard interfaces |      | Not required   |
| Utilization Flush mounting  Slots for SD card: 1  Memory card automation Plugable communication cards (optionall) no  Touch sensor Multi-touch panel   | built-in interfaces                         |      | 1 x RS232<br>1 x RS485<br>1 x CANopen®/easyNet<br>1 x USB host 2.0                                   |
| Slots for SD card: 1  Memory card automation Pluggable communication cards (optional) Touch sensor   | Front type                                  |      | Non-reflective tempered glass in aluminum frame  |
| Memory card automation Optionally with SD card -> article no. 181638  Pluggable communication cards (optional) no  Touch sensor Multi-touch panel  | Utilization                                 |      | Flush mounting   |
| Pluggable communication cards (optional) no Touch sensor Multi-touch touch panel   | Slots                                       |      | for SD card: 1   |
| Touch sensor Multi-touch touch panel   | Memory card automation                      |      | Optionally with SD card -> article no. 181638  |
|  | Pluggable communication cards (optional)    |      | no   |
| Heat dissipation W 21.6  | 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<br>widescreen             |
| Resolution          |                          |                | WXGA<br>1366 x 768             |
| Visible screen area |                          | mm             | 344.23 x 193.54                |
| Format              |                          |                | 16:9                           |
| Viewing range       | [left/right/up/<br>down] | o<br>(Degrees) | 85°/85°/80°/80°                |

| N. I. C. I.                          |                   |                   | 40777040 (0 1 1 4 0413)   |
|--------------------------------------|-------------------|-------------------|---|
| Number of colours                    |                   |                   | 16777216 (Color depth 24 bit)   |
| Contrast ratio (Normally)            |                   |                   | Normally 500:1  |
| Brightness                           |                   | cd/m <sup>2</sup> | 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<br>Flash: 1GB SLC<br>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   |                   |                   | VISUAL DESIGNER<br>XSOFT-CODESYS  |
| PLC-Programming software             |                   |                   | XSOFT-CODESYS-2<br>XSOFT-CODESYS-3  |
| Target and web visualization         |                   |                   | Yes   |
| PLC-licence                          |                   |                   | PLC licence inclusive   |
| Operating system                     |                   |                   | Windows Embedded Compact 7 Pro  |
| Interfaces, communication            |                   |                   |   |
| 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   |
| USB Host                             |                   |                   | 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  |
| Slots                                |                   |                   | for SD card: 1  |
| Ethernet                             |                   |                   | 10/100 Mbps   |
| Power supply                         |                   |                   | וטן וטט ואוושן א  |
| 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)<br>5 ms from undervoltage (19.2 V DC)  |
| Power consumption                    | $P_{\text{max.}}$ | 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                              |                   |                   |   |
| Housing material                     |                   |                   | Aluminium die-cast (glass panel)<br>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 ≥ 50 mm (1.97"), T ≥ 20 mm (0.79")   |
|                                      |                   |                   | Mounting plate: min. 1.5 mm (0.06"), max. 4 mm  |

|   |   |     | Inclination from vertical: # $\le \pm 10$ ° (if using natural convection) Inclination from vertical: # $\le \pm 45$ ° at operating temperature $\le 45$ °C (113°F) (if using natural convection) |
|---|---|-----|--|
| 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)<br>NEMA 4X<br>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<br>960 Hz +- 0.15 mm<br>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<br>Dry heat to IEC 60068-2-2<br>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

| 1 '   |                   |    |   |
|---|-------------------|----|---|
| Technical data for design verification  |                   |    |   |
| Rated operational current for specified heat dissipation  | In                | Α  | 0   |
| Heat dissipation per pole, current-dependent  | P <sub>vid</sub>  | W  | 0   |
| Equipment heat dissipation, current-dependent   | P <sub>vid</sub>  | W  | 0   |
| Static heat dissipation, non-current-dependent  | $P_{vs}$          | W  | 21.6  |
| Heat dissipation capacity   | P <sub>diss</sub> | 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)<br>NEMA 4X<br>NEMA12 (as per NEMA 250-2003) |
| EC/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 - 95%, non-condensing

| 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**

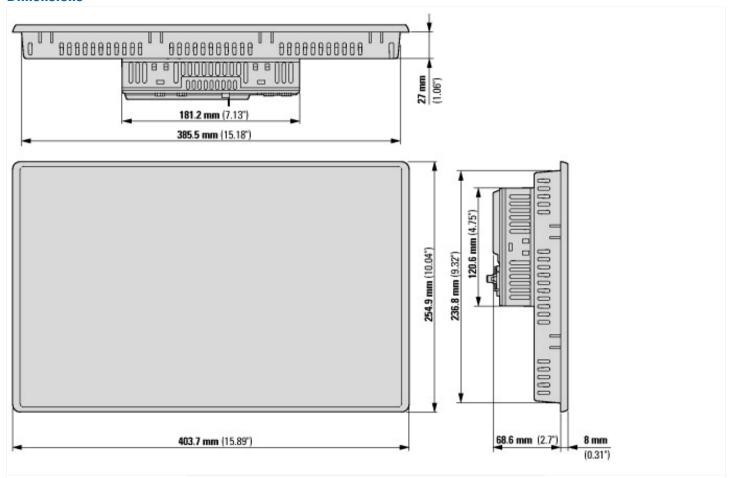
| iconnical data Ellin 7.0   |   |           |  |  |
|--|---|-----------|--|--|
| PLC's (EG000024) / Graphic panel (EC001412)  |   |           |  |  |
| Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Graphic panel (HMI) (ecl@ss10.0.1-27-33-02-01 [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  |   | 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   |   | 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        |  |  |
| Radio standard Bluetooth   |   | No        |  |  |
| Radio standard WLAN 802.11   |   | No        |  |  |

| Redic standard SISM  | Radio standard GPRS                                 |       | No                    |
|--|---|-------|-----------------------|
| Radio standard UMTS         No           10 link master         No         17 FT           Type of digalay         Yes         Yes           Number of Jory-scales/blue-scales of display         16 MT         16 MT           Number of pray-scales/blue-scales of display         16 MT         16 MT           Number of pray-scales/blue-scales of display         16 MT         16 MT           Number of pray-scales/blue-scales of display         16 MT         18 MT           Number of pixels, beritonal         18 MT         18 MT           Number of pixels, vertical         18 MT         18 MT           With ruman's keyboard         18 MT         18 MT           With slahar mamer of function buttons, programmable         18 MT         18 MT           Number of function buttons, programmable         18 MT         18 MT           Number of system function         18 MT         18 MT           Number of system function buttons, programmable         18 MT         18 MT           Number of system function buttons, programmable         18 MT         18 MT           Number of system function button, programmable         18 MT         18 MT           Number of system function (print) passible         18 MT         18 MT           Number of pinse programmable         18   |   |       |                       |
| IO link master         No         TF           Type of display         FF         TF           With colour display         1677216         1677216           Number of gory-sceles/blue-scales of display         0         160           Screan diagonal         16         15           Number of pixels, bordicatal         16         16           Number of pixels, bordicatal         16         180           Useful project memory/user memory         2         18         180           With alpha numeric keyboard         16         10         10           With alpha numeric keyboard         16         10         10         10           Number of function buttons, programmable         16         10   |   |       |                       |
| Yop of display         FT           With colour display         Yes           Number of colours of the display         76777216           Number of prey-scales/blue-scales of display         76777216           Screen diagonal         Inch         156           Number of pixels, horizontal         Yes         368           Number of pixels, vertical         Yes         78           Wested project memory/user memory         Yes         No           With numeric keyboard         Yes         No           Winth numeric keyboard         Yes         No           Winth prid function buttons, programmable         Yes         No           Number of buttons with LED         Yes         No           Number of buttons with LED         Yes         No           With message indication         Yes         Yes           With message system buttons         Yes         Yes           With message system incit butter and confirmation         Yes         Yes           Process value representation (output) possible         Yes         Yes           With printer output         Yes         Yes           Number of online languages         Yes         Yes           Additional software components, loadable         Yes  |   |       |                       |
| With colour display         Yes           Number of colours of the display         1777216           Number of prey-sales/blue-scales of display         0           Screen diagonal         18           Number of pixels, horizontal         2           Number of pixels, horizontal         2           Useful project memory/user memory         8           With numeric keyboard         8           With alpha numeric keyboard         9           Number of function buttons, programmable         9           Number of system buttons         9           Touch technology         9           With message andication         9           With message system funct buffer and confirmation)         9           With message system funct buffer and confirmation)         9           With message system funct buffer and confirmation         9           Process value representation (output) possible         9           With recipes         9           With recipes         9           Number of possword levels         9           With printer output         9           Number of possible of where of printer indigential growth         9           With printer output         9           Suggested protection (IVP), front side   |   |       |                       |
| Number of colours of the display         6         10         10077126           Number of prey-scales/blue-scales of display         6         10         10           Screen diagonal         10         156         10           Number of pixels, borizontal         2         78         78           Useful project memory/user memory         8         152000         10         10           With numeric keyboard         9         10         1   |   |       |                       |
| Number of grey-scales/blue-scales of display         inch         15.6           Screen diagonal         inch         136           Number of pixels, broizontal         78         136           Number of pixels, broizontal         180         1500           With numeric keyboard         180         1000           With alpha numeric keyboard         10         10           Number of buttons buttons, programmable         10         10           Number of buttons with LED         1         10           Number of buttons with LED         1         10           Touch t schnology         1         10           With message system (incl. butter and confirmation)         1         10           With message system (incl. butter and confirmation)         1         10           Process value representation (output) possible         1         10           With recipes         1         10           Number of passwerd levels         1         10           With printer output         1         10           Number of passwerd levels         1         10           With printer output         1         10           Additional software components, loadable         1         10 <td< td=""><td></td><td></td><td></td></td<>   |   |       |                       |
| Screen diagonal         inch         156           Number of pixels, horizontal         1386           Number of pixels, vertical         288           Useful project memory/user memory         8 k9te         512000           With alpha numeric keyboard         No           With alpha numeric keyboard         No         No           Number of function buttons, programmable         0         O           Number of buttons with LED         1         Capacitive multitouch           With message indication         2         Capacitive multitouch           With message system holt buffer and confirmation)         2         Ves           With message system (not. buffer and confirmation)         2         Ves           With message system (not. buffer and confirmation)         2         Ves           With message system (not. buffer and confirmation)         2         Ves           With message indication         2         Ves           With message system (not. buffer and confirmation)         3         Ves           With message indication (uniqui) possible         2         Ves           With message system (not. buffer and confirmation)         3         Ves           With message system (not. buffer output         3         Ves           Wi   |   |       |                       |
| Number of pixels, horizontal         136           Number of pixels, vertical         187           Useful project memory/user memory         189           With alpha numeric keyboard         189           With alpha numeric keyboard         180           Number of fuction buttons, programmable         2           Number of buttons with LED         2           Number of system buttons         2           Touch schnology         2           With message indication         2           With message system (n.b buffer and confirmation)         3           With message system (n.b buffer and confirmation)         4           With message system (n.b buffer and confirmation)         3           With message system (n.b buffer and confirmation)         4           With printer output  |   |       | 0                     |
| Number of pixels, vertical         KByte         512000           With numeric keyboard         No           With alpha numeric keyboard         No           Number of function buttons, programmable         0           Number of buttons with LED         0           Number of system buttons         1           Touch technology         1           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         20           With printer output         Yes           Number of online languages         Yes           Additional software components, loadable         Yes           Degree of protection (IP), front side         Yes           Degree of protection (IEMA), front side         Yes           Degree of protection (IRMA), front side         Yes           Operation temperature         Yes           Will mounting/direct mounting         Yes           Will mounting/direct mounting         Yes           Will for the front         Yes           Will to the front         Yes           Will to th  | Screen diagonal                                     | inch  | 15.6                  |
| Useful project memory/user memory         RByte         510000           With numeric keyboard         No           With alpha numeric keyboard         No           Number of function buttons, programmable         C         O           Number of buttons with LED         C         O           Number of system buttons         C         Capacitive multitouch           Touch technology         C         Capacitive multitouch           With message indication         C         Yes           With message system (incl. buffer and confirmation)         C         Yes           Process value representation (output) possible         Yes         Yes           With recipies         Yes         Yes           With printer output         Yes         Yes           Number of online languages         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           Operation temperature         Yes         Yes           Sali mounting/direct mounting         Yes         Yes   | Number of pixels, horizontal                        |       | 1366                  |
| With numeric keyboard         No           With alpha numeric keyboard         No           Number of function buttons, programmable         0           Number of buttons with LED         0           Number of system buttons         1         Capacitive multitouch           Touch technology         Capacitive multitouch           With message system (incl. buffer and confirmation)         Yes           Process value representation (output) possible         Yes           With recipes         Yes           With recipes         Yes           Number of password levels         Yes           Number of online languages         100           Additional software components, loadable         Yes           Degree of protection (IP), front side         12           Degree of protection (NEMA), front side         12           Degree of protection (NEMA), front side         9           Rail mounting possible         No           Will multing/direct mounting         No   | Number of pixels, vertical                          |       | 768                   |
| With alpha numeric keyboard         Mo           Number of function buttons, programmable         C           Number of buttons with LED         C           Number of system buttons         C           Touch technology         Capacitive multitouch           With message indication         Fes           With message system (incl. buffer and confirmation)         Fes           Process value representation (output) possible         Fes           Process default value (input) possible         Fes           With recipes         Yes           Number of password levels         Fes           Number of password levels         Fes           Number of online languages         Fes           Additional software components, loadable         Fes           Degree of protection (IP), front side         Fes           Stall mounting driver tounting         Fes           Will mounting (driver tounti  | Useful project memory/user memory                   | kByte | 512000                |
| Number of function buttons, programmable                   0           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 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                   1P65           Degree of protection (NEMA), front side                   1P65           Queration temperature                   1P65           Rail mounting possible                   No           Wall mounting/direct mounting                   No           Suitable for safety functions                   No           Witch of the fron  | With numeric keyboard                               |       | No                    |
| Number of buttons with LED         6           Number of system buttons         6           Touch technology         6           With message indication         7           With message system (incl. buffer and confirmation)         7           Process value representation (output) possible         7           Process default value (input) possible         7           With recipes         7           Number of password levels         7           With printer output         7           Number of online languages         7           Additional software components, loadable         7           Degree of protection (IP), front side         185           Degree of protection (IEMA), front side         12           Operation temperature         7           Rail mounting possible         8           Wall mounting/direct mounting         8           Suitable for safety functions         8           With first         8           With first         8           In print of the front         8  | 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           With printer output         Yes           Number of online languages         100           Additional software components, loadable         Yes           Degree of protection (IP), front side         12           Degree of protection (NEMA), front side         12           Operation temperature         Yes           Rail mounting possible         No           Wall mounting/direct mounting         No           Suitable for safety functions         No           Witch of the front         mm         404           Height of the front         mm         255  | Number of function buttons, programmable            |       | 0                     |
| 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           With printer output         Yes           Number of online languages         Yes           Additional software components, loadable         Yes           Degree of protection (IP, front side         Ief65           Degree of protection (NEMA), front side         Ief65           Degree of protection (NEMA), front side         Yes           No         No           Wi  | Number of buttons with LED                          |       | 0                     |
| With message indication  With message system (incl. buffer and confirmation)  Process value representation (output) possible  Process default value (input) possible  With recipes  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  Degree of protection (NEMA), front side  Degree of protection temperature  Rail mounting possible  Wall mounting/direct mounting  Suitable for safety functions  With of the front  Height of the front  Wes  Yes  100  Yes  100  Yes  100  Yes  100  No  No  No  With message system (incl. buffer and confirmation)  Yes  100  No  Wall mounting possible  No  No  With of the front  Height of the front  Mith of the front  Height of the front  With message system (incl. buffer and confirmation)  Yes  Yes  100  No  Yes  100  No  Wall mounting possible  No  No  With of the front  Height of the front  Mith of the front  With of the front  With of the front  With of the front  With of the front  | Number of system buttons                            |       | 1                     |
| With message system (incl. buffer and confirmation) Process value representation (output) possible Process default value (input) possible With recipes With recipes Number of password levels Vith printer output Number of online languages Number of online languages Number of protection (IP), front side Degree of protection (NEMA), front side Degree of protection (NEMA), front side Number of onsible Wall mounting possible Wall mounting possible Wall mounting firect mounting Width of the front Width of the front Height of the front Medicine in a confirmation (NEMA) (Nemation) Midth of the front Medicine in a confirmation (Nemation) Medi | Touch technology                                    |       | Capacitive multitouch |
| Process value representation (output) possible  Process default value (input) possible  With recipes  With recipes  Number of password levels  Number of online languages  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  No  Process value representation (output) possible  Wall mounting possible  Wall mounting possible  Wall mounting/direct mounting  Width of the front  Height of the front  No  The service of Process value representation (output) possible  Wes  Yes  100  100  100  100  100  100  100  1  | With message indication                             |       | Yes                   |
| 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  Degree of protection (NEMA), front side  Person of the protection (NEMA) (IP), front side  Degree of protection (NEMA), front side  No  Suitable for safety functions  Width of the front  Mm 404  Height of the front  | With message system (incl. buffer and confirmation) |       | Yes                   |
| With recipes Number of password levels With printer output With printer output Number of online languages 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  Peration temperature Operation temperature No Wall mounting possible Wall mounting/direct mounting Suitable for safety functions Width of the front Midth of | Process value representation (output) possible      |       | Yes                   |
| 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  PC 0 - 50  Rail mounting possible  Wall mounting/direct mounting  Suitable for safety functions  Width of the front  Height of the front  Mo  200  Yes  100  Additional software components, loadable  Pes  12  0 - 50  No  No  404  Height of the front  mm 404  Height of the front  mm 255  | Process default value (input) possible              |       | Yes                   |
| With printer output Number of online languages 100 Additional software components, loadable Pegree of protection (IP), front side Degree of protection (NEMA), front side 12 Operation temperature °C 0-50 Rail mounting possible No Wall mounting/direct mounting Suitable for safety functions Width of the front Meight of the fron | With recipes  |       | Yes                   |
| Number of online languages Additional software components, loadable Pegree of protection (IP), front side Pegree of protection (NEMA), front side Pegree of protection | Number of password levels                           |       | 200                   |
| Additional software components, loadable  Degree of protection (IP), front side  Degree of protection (NEMA), front side  Degreation temperature  CC  Rail mounting possible  Wall mounting/direct mounting  Suitable for safety functions  Width of the front  Height of the front  Yes  IP65  12  0 - 50  No  No  No  No  Suitable for safety functions  Mo  404  Height of the front  mm  404   | With printer output                                 |       | Yes                   |
| Degree of protection (IP), front side  Degree of protection (NEMA), front side  12  Operation temperature  °C  0 - 50  Rail mounting possible  Wall mounting/direct mounting  Suitable for safety functions  Width of the front  Mo  Well front  Mo  Width of the front  Mo  Mo  Width of the front  Mo  Mo  Width of the front  Mo  Width of the fron | Number of online languages                          |       | 100                   |
| Degree of protection (NEMA), front side  12  Operation temperature  °C 0 - 50  Rail mounting possible  No  Wall mounting/direct mounting  No  Suitable for safety functions  Width of the front  Meight of the front  Meight of the front  No  To  To  To  To  To  To  To  To  To  | Additional software components, loadable            |       | Yes                   |
| Operation temperature  °C 0 - 50  Rail mounting possible  Wall mounting/direct mounting  No  Suitable for safety functions  Width of the front  Mm 404  Height of the front  mm 255  | Degree of protection (IP), front side               |       | IP65                  |
| 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  | Degree of protection (NEMA), front side             |       | 12                    |
| Wall mounting/direct mounting  No Suitable for safety functions  Width of the front  mm 404  Height of the front  mm 255   | Operation temperature                               | °C    | 0 - 50                |
| Suitable for safety functionsNoWidth of the frontmm404Height of the frontmm255   | Rail mounting possible                              |       | No                    |
| Width of the front mm 404 Height of the front mm 255   | Wall mounting/direct mounting                       |       | No                    |
| Height of the front mm 255   | Suitable for safety functions                       |       | No                    |
|  | Width of the front                                  | mm    | 404                   |
| Built-in depth mm 75.5   | Height of the front                                 | mm    | 255                   |
|  | Built-in depth                                      | mm    | 75.5                  |

## **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

