XV-303-15-C00-A00-1D - Control panel with PLC, 24VDC, 15.6-inch PCT widescreen display, 1366x768 pixels, 2xEthernet, 1xRS232, 1xRS485, 1xCAN, 1xSD card slot, VisualDesigner

191077 XV-303-15-C00-A00-1D	
Overview Specific	cations Resources
Delivery program	DELIVERY PROGRAM
Technical data	Product range XV300 15.6"
Design verification as per IEC/EN 61439	Product range XV-303
Technical data ETIM7.0	Function HM-PLC (SPS function, retrofittable)
Approvals	Description Control panel with 2nd Ethernet port Software (Engineering): visualization = Visual Designer
Dimensions	Common features of the model series Ethernet interface CAN USB device USB Host RS232 RS485 Slot for SD card Operating System Window s Embedded Compact 7 pro Integrated Runtime visualization softw are license
1/18	

Display - Type Color display, TFT, anti-glare

Touch-technology Capacitive multi-touch technology (PCT)

Number of colours 16777216 (Color depth 24 bit)

Resolution WXGA 1366 x 768 Fixel

Portrait format yes

Screen diagonal 15.6 widescreen Inch

Model Rastic enclosure and glass panel in plastic frame

Operating system Windows Embedded Compact 7 Pro

PLC-licence Can be fitted by user with article no. 181585 LIC-PLC-A

License certificates for onboard interfaces Not required

built-in interfaces 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

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

Fluggable communication cards (optional) no

Touch sensor Multi-touch touch panel

Heat dissipation 21.6 W

TECHNICAL DATA

Display

Display - Type Color display, TFT, anti-glare

Screen diagonal 15.6 widescreen Inch

Resolution WXGA 1366 x 768 Fixel

Visible screen area 344.23 x 193.54 mm

Format 16:9

Viewing range [[left/right/up/down]] 85°/85°/80°/80° ° (Degrees)

Number of colours

Contrast ratio (Normally) Normally 500:1

Brightness Normally 300 cd/m²

Back-lighting LED dimmable via software

Service life of back-lighting Normally 50000 h

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 Back-up of real-time clock Backup (time at zero voltage) Normally 10 years

Engineering

Visualisation software VISUAL DESIGNER XSOFT-CODESYS

PLC-Programming software XSOFT-CODESYS-2 XSOFT-CODESYS-3

Target and web visualization Yes

PLC-licence Can be fitted by user with article no. 181585 LIC-PLC-A

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

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 ≤ 10 ms from rated voltage (24 V DC) 5 ms from undervoltage (19.2 V DC) ms

Power consumption $[P_{max}]$ 21.6 W

Power consumption Normally 16 W

Heat dissipation 21.6 W

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) Insulated material black

Front type Non-reflective tempered glass in aluminum frame

Dimensions (W x H x D) 404 x 255 x 53 mm

flush mounted Clearance: Wx H \ge 50 mm(1.97"), T \ge 20 mm (0.79") Mounting plate: min. 1.5 mm(0.06"), max. 4 mm Inclination from vertical: $\Box \pm 10^{\circ}$ (if using natural convection) Inclination from vertical: $\Box \pm 45^{\circ}$ at operating temperature $\Box 45^{\circ}$ C (113°F) (if using natural convection)

Weight 3.9 kg

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) NEVA 4X NEVA12 (as per NEVA 250-2003)

Approvals Approvals cUL 61010-2-201

Applied standards and directives EVC 2004/108/EEC

Applied standards and directives Entited interference IEC/EN 61000-6-4

Applied standards and directives

Interference immunity IEC/EN 61000-6-2

Applied standards and directives Product standards EN50178/IEC/EN 61131-2

Mechanical shock resistance 15g / 11ms g

Vibration 5...9 Hz +- 3.5 mm 9...60 Hz +- 0.15 mm 60...150 Hz ± 2 g

Free fall, packaged IEC/EN 60068-2-31 m

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

Oimatic environmental conditions Air pressure (operation) 795 - 1080 hPa

Temperature Storage / Transport [ϑ] -20 - +60 °C

Temperature Operating ambient temperature min. 0 °C

Temperature Operating ambient temperature max. +50 °C

Relative humidity Condensation Relative humidity Relative humidity 10 - 95%, non-condensing

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation $[I_n]$ 0 A

Heat dissipation per pole, current-dependent $[\mathsf{R}_{id}]$ 0 W

Equipment heat dissipation, current-dependent $[P_{\text{id}}] \\ 0 \text{ W}$

Static heat dissipation, non-current-dependent $[\mathrm{P}_{\mathrm{vs}}]$ 21.6 W

Heat dissipation capacity $[P_{\text{diss}}]$ 0 W

Operating ambient temperature min. 0 $^\circ\mathrm{C}$

Operating ambient temperature max. +50 $^\circ\mathrm{C}$

Degree of Protection IP65 (in the front as per EN 60529-1), IP20 (on rear as per EN 60529-1) NEVA 4X NEVA12 (as per NEVA 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 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatMeets the product standard's requirements.

10.2 Strength of materials and parts 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 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation Rease enquire

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES Meets the product standard's requirements.

10.4 Clearances and creepage distances Meets the product standard's requirements.

10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated.

10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections Is the panel builder's responsibility.

10.8 Connections for external conductors Is the panel builder's responsibility.

10.9 Insulation properties 10.9.2 Power-frequency electric strength Is the panel builder's responsibility.

10.9 Insulation properties10.9.3 Impulse withstand voltageIs the panel builder's responsibility.

10.9 Insulation properties10.9.4 Testing of enclosures made of insulating materialIs 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

PLCs (EG000024) / Graphic panel (EC001412)

Electric engineering, automation, process control engineering / Display and control component / Panel (HM) / Graphic panel (HM) (ecl@ss10.0.1-27-33-02-01 [AFX016003])

Supply voltage AC 50 Hz 0 - 0 V

Supply voltage AC 60 Hz 0 - 0 V

Supply voltage DC 19.2 - 30 V

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

Radio standard GPRS No

Radio standard GSM No

Radio standard UMTS No

IO link master No Type of display TFT

With colour display Yes

Number of colours of the display 16777.216

Number of grey-scales/blue-scales of display 0

Screen diagonal 15.6 inch

Number of pixels, horizontal 1.366

Number of pixels, vertical 768

Useful project memory/user memory 512 kByte

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 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 200

With printer output Yes

Number of online languages 100

Additional software components, loadable Yes

Degree of protection (IP), front side IP65

Degree of protection (NEVA), front side 12 $\,$

Operation temperature 0 - 50 °C

Rail mounting possible No

Wall mounting/direct mounting No

Suitable for safety functions No

Width of the front 404 mm

Height of the front 255 mm

Built-in depth 75.5 mm

APPROVALS

North America Certification Request filed for UL

Specially designed for North America No

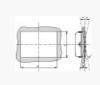
Ourrent Limiting Orcuit-Breaker No

Degree of Protection IEC: IP65, NA: NEVA4X, NEVA12

DIMENSIONS

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

a, b \Box 50 mm, c \Box 20 mm, ϑ 0 \Box T \Box 50 °C



1.5 mm □ d □ 4 mm, e = 388 mm, f = 239 mm, □ = 10°







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