DATASHEET - XVH-340-57BAS-1-10

Part no.



Touch panel, ir, 24 V DC, 5.7z, STNcolor, ethernet

XVH-340-57BAS-1-10 Catalog No. 139869



Delivery program

HMI Display - Type Di			
Color display, CSTN Infra-red touch Touch-technology Number of colours Resolution Resolu	Product range		XVH300
Infra-red touch Number of colours Resolution Pixel 320 x 240 Portrait format Resolution Pixel 320 x 240 Portrait format Resolution Format Pixel 320 x 240 Portrait format Pixel 320 x 240 Port	Function		нмі
Number of colours Resolution Pixel 320 x 240 Portrait format Portrait gystem P	Display - Type		Color display, CSTN
Pixel 320 x 240 Portrait format Portrait grade Portrait format Portrait grade Portrait format Portrait grade Portrait	Touch-technology		Infra-red touch
Portrait format Screen diagonal Model Departing system PLC-licence License certificates for onboard interfaces Duilt-in interfaces Ditilization Slots Memory card automation Place diagonal Inch 5.7 Metal enclosure and front plate Windows CE (license required) Windows CE (license required) To PLC function possible Can be expanded as required, see Accessories -> License product certificates 1 x Ethernet 100base-TX/10base-T 1 x USB device Standard front with standard membrane Laminated safety glass, non-reflective Flush mounting for Compact-Flash TM-Cards: 1 required, see Accessories -> Memory cards no Pluggable communication cards (optional)	Number of colours		256 colors
Screen diagonal Model Model Metal enclosure and front plate Windows CE (license required) Model Metal enclosure and front plate Windows CE (license required) Model Metal enclosure and front plate Windows CE (license required) Model Model Metal enclosure and front plate Windows CE (license required) Model Model Model enclosure and front plate Windows CE (license required) Model Mode	Resolution	Pixel	320 x 240
Model Metal enclosure and front plate Windows CE (license required) No PLC function possible Can be expanded as required, see Accessories -> License product certificates pullt-in interfaces To X Ethernet 100base-TX/10base-T 1 x USB device Front type Standard front with standard membrane Laminated safety glass, non-reflective Flush mounting Slots Memory card automation required, see Accessories -> Memory cards no Netal enclosure and front plate Windows CE (license required) no PLC function possible Can be expanded as required, see Accessories -> License product certificates 1 x Ethernet 100base-TX/10base-T 1 x USB device Standard front with standard membrane Laminated safety glass, non-reflective Flush mounting for Compact-Flash ^{TM-} Cards: 1 required, see Accessories -> Memory cards no	Portrait format		yes
Departing system Windows CE (license required) no PLC function possible Can be expanded as required, see Accessories -> License product certificates pullt-in interfaces 1 x Ethernet 100base-TX/10base-T 1 x USB device Front type Standard front with standard membrane Laminated safety glass, non-reflective Utilization Flush mounting for Compact-Flash TM -Cards: 1 required, see Accessories -> Memory cards Pluggable communication cards (optional) Nemory card automation no	Screen diagonal	Inch	5.7
PLC-licence no PLC function possible Can be expanded as required, see Accessories -> License product certificates puilt-in interfaces 1 x Ethernet 100base-TX/10base-T 1 x USB device Front type Standard front with standard membrane Laminated safety glass, non-reflective Flush mounting Flush mounting for Compact-Flash TM-Cards: 1 Memory card automation Pluggable communication cards (optional) no	Model		Metal enclosure and front plate
Can be expanded as required, see Accessories -> License product certificates 1 x Ethernet 100base-TX/10base-T 1 x USB device Front type Standard front with standard membrane Laminated safety glass, non-reflective Flush mounting Flush mounting for Compact-Flash TM-Cards: 1 Memory card automation Pluggable communication cards (optional) Can be expanded as required, see Accessories -> License product certificates 1 x Ethernet 100base-TX/10base-T 1 x USB device Standard front with standard membrane Laminated safety glass, non-reflective for Compact-Flash TM-Cards: 1 required, see Accessories -> Memory cards no	Operating system		Windows CE (license required)
1 x Ethernet 100base-TX/10base-T 1 x USB device Standard front with standard membrane Laminated safety glass, non-reflective Flush mounting For Compact-Flash TM- Cards: 1 Memory card automation Pluggable communication cards (optional) 1 x Ethernet 100base-TX/10base-T 1 x USB device Standard front with standard membrane Laminated safety glass, non-reflective Flush mounting for Compact-Flash TM- Cards: 1 required, see Accessories -> Memory cards no	PLC-licence		no PLC function possible
Tront type Standard front with standard membrane Laminated safety glass, non-reflective Flush mounting Flore Compact-Flash TM- Cards: 1 Memory card automation Pluggable communication cards (optional) 1 x USB device Standard front with standard membrane Laminated safety glass, non-reflective Flush mounting for Compact-Flash TM- Cards: 1 required, see Accessories -> Memory cards no	License certificates for onboard interfaces		Can be expanded as required, see Accessories -> License product certificates
Laminated safety glass, non-reflective Utilization Flush mounting Flor Compact-Flash TM- Cards: 1 Memory card automation required, see Accessories -> Memory cards Pluggable communication cards (optional) no	built-in interfaces		
Fluggable communication cards (optional) for Compact-Flash ^{TM-} Cards: 1 required, see Accessories -> Memory cards no	Front type		
Memory card automation required, see Accessories -> Memory cards Pluggable communication cards (optional) no	Utilization		Flush mounting
Pluggable communication cards (optional) no	Slots		for Compact-Flash ^{TM-} Cards: 1
	Memory card automation		required, see Accessories -> Memory cards
Heat dissipation W 19.2	Pluggable communication cards (optional)		no
	Heat dissipation	W	19.2

Technical data Display

Display - Type		Color display, CSTN
Screen diagonal	Inch	5.7
Resolution	Pixel	320 x 240
Visible screen area	mm	115 x 86
Number of colours		256 colors
Contrast ratio (Normally)		Normally 35:1
Brightness	cd/m ²	Normally 150
Back-lighting		1 x CCFL dimmable via software
Service life of back-lighting	h	Normally 50000
Infra-red touch protective screen		Laminated safety glass, non-reflective
Operation		
Technology		Infra-red touch 47 x 31 logic channels

System

System	
Processor	RISC CPU, 32 Bit, 200 MHz
Internal memory	DRAM (OS, Program and data memory): 64 MByte Flash (can be used for data backup): approx. 1.5 MByte available
External memory	CF-Slot: 1 x CompactFlash Card type I/II for operating system, programs and data
Back-up of real-time clock	
Battery (service life)	non-replaceable, CR2032 soldered in
Backup (time at zero voltage)	Normally 10 years
Operating system	Windows CE (license required)
Engineering	

Engineering

Visualisation software	GALILEO/EPAM	
------------------------	--------------	--

USB device Slots S	built-in interfaces			1 x Ethernet 100base-TX/10base-T 1 x USB device
Silves supply Nominal voltage permissible voltage	PLC-licence			no PLC function possible
Ethernet 100 Base-TX/10Base-TX Power supply Nominal voltage	USB device			USB 1.1, not galvanically isolated
Power supply Nominal voltage Effective: 204 - 28.8 V DC (rated operating voltage) Effective: 204 - 28.8 V DC (rated operating voltage - 15%/+ 20%) Absolute with pile: 182-30.0 V DC 35 V DC for a duration of < 100 ms Voltage dips ms	Slots			for Compact-Flash ^{TM-} Cards: 1
Nominal voltage permissible voltage \$\begin{array}{cccccccccccccccccccccccccccccccccccc	Ethernet			100Base-TX/10Base-T
Effective: 20.4-28.8 V DC (rated operating voltage -15%/+20%) Absolute with rippie: 19.2-30.0 V DC 35 V DC for a duration of < 100 ms Voltage dips ms <pre></pre>	Power supply			
Absolute with rippie: 19.2-30 V DC for a duration of < 100 ms Voltage dips ms	Nominal voltage			24 V DC SELV (safety extra low voltage)
Power consumption Personation Power consumption Power consumption Power consumption Personation Personation Personation Personation Personation Personation Personation Personation Power consumption Personation Personation Personation Power consumption Power consumption Power consumption for 24 V, all ports and interfaces Connected Connected Power consumption for 24 V, all ports and interfaces Connected Power consumption for 24 V, all ports and interfaces Connected Power consumption for 24 V, all ports and interfaces Connected Power consumption for 24 V, all ports and interfaces Connected Power consumption for 24 V, all ports and interfaces Connected Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all ports and interfaces Power consumption for 24 V, all power consumption for 24 V,	permissible voltage			Absolute with ripple: 19.2-30.0 V DC
Power consumption W Normally 12 Note on heat dissipation Note on heat dissipation Note on heat dissipation Note on heat dissipation Siemens MPI, (optional) Type of fuse Potential isolation Oceneral Housing material Front type Standard front with standard membrane Laminated safety glass, non-reflective Weight Approvals Explosion protection (IEC/EN 60529, EN50178, VBG 4) Approvals Explosion protection (according to ATEX 94/9/EC) I I 30 Ex II T70°C IP5x: Zone 22, Category 3D (in relation to CE) EN80079-0, EN61241-1, EN13463 EN 50178	Voltage dips		ms	
Heat dissipation W 19.2 Note on heat dissipation Note on heat dissipation with power consumption for 24 V, all ports and interfaces connected Yes (fuse ont accessible) No potential isolation (0 V-connection to housing potential) Note on heat dissipation with power consumption for 24 V, all ports and interfaces connected Nest (fuse ont accessible) No potential isolation (0 V-connection to housing potential) Note on heat dissipation with power consumption for 24 V, all ports and interfaces connected Nest (fuse ont accessible) No potential isolation (0 V-connection to housing potential) Note on heat dissipation with power consumption for 24 V, all ports and interfaces connected Nest (fuse ont accessible) No potential isolation (0 V-connection to housing potential) Note of fuse on accessible Note on	Power consumption	P _{max.}	W	16
Note on heat dissipation Note on heat dissipation Siemens MPI, (optional) Type of fuse Potential isolation General Housing material Housing material Housing material Front type Weight Approvals Approvals Explosion protection (according to ATEX 94/9/EC) Product standards and directives Product standards Product standards Security Heat dissipation with power consumption for 24 V, all ports and interfaces connected yes Yes (fuse not accessible) no potential isolation (0 V-connection to housing potential) Metal, anodized Standard front with standard membrane Laminated safety glass, non-reflective Profuction (IEC/EN 60529, EN50178, VBG 4) Approvals CUL II 3D Ex II 770°C IP5x- Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 EN 50178 EN 50178 EN 50178 EN 50178 EN 50178	Power consumption		W	Normally 12
Connected Conn	Heat dissipation		W	19.2
Type of fuse Potential isolation General Housing material Front type Weight Degree of protection (IEC/EN 60529, EN50178, VBG 4) Approvals Explosion protection (according to ATEX 94/9/EC) Product standards and directives Product standards Product standards Security Yes (fuse not accessible) no potential isolation (0 V-connection to housing potential) no potential isolation (0 V-connection to housing potential) Net all isolation (0 V-connection to housing potential) Standard front with standard membrane Laminated safety glass, non-reflective kg 1.7 IP65 (at front), IP20 (at rear) CUL Explosion protection (according to ATEX 94/9/EC) II 3D Ex II T70°C IP5x: Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 EN 50178 EN 50178 EN 50178	Note on heat dissipation			
Potential isolation General Housing material Housing material Front type Weight Metal, anodized Standard front with standard membrane Laminated safety glass, non-reflective Weight Metal, anodized Standard front with standard membrane Laminated safety glass, non-reflective Product standards and directives Product standards Security no potential isolation (0 V-connection to housing potential) no potential isolation (0 V-connection to housing potential) No potential isolation (0 V-connection to housing potential) Metal, anodized Standard front with standard membrane Laminated safety glass, non-reflective IP65 (at front), IP20 (at rear) II 3D Ex II T70°C IP5x: Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 EN 50178 EN 50178 EN 50178 EN 50178	Siemens MPI, (optional)			yes
General Housing material Housing material Front type Standard front with standard membrane Laminated safety glass, non-reflective Weight Weight Ng 1.7 Degree of protection (IEC/EN 60529, EN50178, VBG 4) Approvals Approvals Explosion protection (according to ATEX 94/9/EC) II 3D Ex II 770°C IP5x: Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 Applied standards and directives Product standards Product standards Security EN 60950	Type of fuse			Yes (fuse not accessible)
Housing material Front type Standard front with standard membrane Laminated safety glass, non-reflective Weight kg 1.7 Degree of protection (IEC/EN 60529, EN50178, VBG 4) Approvals Approvals Explosion protection (according to ATEX 94/9/EC) Il 3D Ex II T70°C IP5x: Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 Applied standards and directives Product standards Product standards Security Metal, anodized Standard front with standard membrane Laminated safety glass, non-reflective Il 70°C (at rear) Il 3D Ex II T70°C IP5x: Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 EN 50178 EN 50178 EN 50178 EN 50178	Potential isolation			no potential isolation (0 V-connection to housing potential)
Front type Standard front with standard membrane Laminated safety glass, non-reflective Weight kg 1.7 Degree of protection (IEC/EN 60529, EN50178, VBG 4) Approvals Approvals Explosion protection (according to ATEX 94/9/EC) If 3D Ex II T70°C IP5x: Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 Applied standards and directives Product standards Security EN 50178 EN 50178 EN 60950	General			
Laminated safety glass, non-reflective Weight Negree of protection (IEC/EN 60529, EN50178, VBG 4) Approvals Approvals Explosion protection (according to ATEX 94/9/EC) Applied standards and directives Product standards Security Laminated safety glass, non-reflective IP65 (at front), IP20 (at rear) CUL UL II 3D Ex II T70°C IP5x: Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 EN 50178 EN 50178 EN 50178 EN 60950	Housing material			Metal, anodized
Degree of protection (IEC/EN 60529, EN50178, VBG 4) Approvals Approvals Explosion protection (according to ATEX 94/9/EC) Applied standards and directives Product standards Security IP65 (at front), IP20 (at rear) IP65 (at front), IP60 (at rear) IP65 (at f	Front type			
Approvals Approvals CUL Explosion protection (according to ATEX 94/9/EC) II 3D Ex II T70°C IP5x: Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 Applied standards and directives Product standards EN 50178 EN 50178 Security EN 60950	Weight		kg	1.7
Approvals Explosion protection (according to ATEX 94/9/EC) II 3D Ex II T70°C IP5x: Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 Applied standards and directives Product standards EN 50178 EN 50178 Security EN 60950	Degree of protection (IEC/EN 60529, EN50178, VBG 4)			IP65 (at front), IP20 (at rear)
Explosion protection (according to ATEX 94/9/EC) II 3D Ex II T70°C IP5x: Zone 22, Category 3D (in relation to CE) EN60079-0, EN61241-1, EN13463 Applied standards and directives Product standards EN 50178 EN 50178 Security EN 60950	Approvals			
(in relation to CE) EN60079-0, EN61241-1, EN13463 Applied standards and directives Product standards EN 50178 EN 50178 Security EN 60950	Approvals			cUL
Product standards EN 50178 EN 50178 Security EN 60950	Explosion protection (according to ATEX 94/9/EC)			(in relation to CE)
EN 50178 Security EN 60950	Applied standards and directives			
	Product standards			
	Security			

Environmental conditions

Mechanical shock resistance

Temperature			
Operation	θ	°C	0 - +50
Storage / Transport	θ	°C	-20 - +60
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	+ 50
Relative humidity			
Relative humidity			10 - 95%, non-condensing
Consideration of the second of			

g

according to IEC 60068-2-27

To IEC 68-2-6

Supply voltage U_{Aux}

Rated operational voltage	U_{Aux}	V	24 V DC (-15/+20%)
Protection against polarity reversal			Yes
Potential isolation			No

Design verification as per IEC/EN 61439

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	19.2
Heat dissipation capacity	P _{diss}	W	0

Operating ambient temperature min.	°C	0
Operating ambient temperature max.	°C	C 50
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 $ \frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left($		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.
10.6 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

Technical data Ethiyi 7.0		
PLC's (EG000024) / Graphic panel (EC001412)		
Electric engineering, automation, process control engineering / Display and control cor	mponent / Panel (F	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	20.4 - 28.8
Voltage type of supply voltage		DC
Voltage type of supply voltage		DC
Number of HW-interfaces industrial Ethernet		1
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		1
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		0
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		1
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		0
With SW interfaces		Yes
Supporting protocol for TCP/IP		Yes
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
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		Yes
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
10 link master		No
Type of display		STN
With colour display		Yes
Number of colours of the display		256
Number of grey-scales/blue-scales of display		0
Screen diagonal	inch	5.7
Number of pixels, horizontal		320
Number of pixels, vertical		240
Useful project memory/user memory	kByte	64000
With numeric keyboard		Yes
With alpha numeric keyboard		Yes
Number of function buttons, programmable		0
Number of buttons with LED		0
Number of system buttons		1
Touch technology		Infrared touch
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 (NEMA), front side		
Operation temperature	°C	0 - 50
Rail mounting possible		No
Wall mounting/direct mounting		No
Suitable for safety functions		No
Width of the front	mm	212
Height of the front	mm	156
	mm	55
Built-in depth	mm	

Approvals	
Product Standards	UL 60950-01; CSA-C22.2 No. 60950-1; IEC/EN 61131-2; CE marking
UL File No.	E208621
UL Category Control No.	NWGQ2, NWGQ8
CSA File No.	UL report applies to both US and Canada
CSA Class No.	-
North America Certification	UL recognized, certified by UL for use in Canada
Conditions of Acceptability	The investigated Pollution Degree is: 2 Proper bonding to the end-product main protective earthing termination is: Required The following end-product enclosures are required: Fire, Electrical The unit must be supplied via a SELV source. The provided Ethernet Connection is only allowed to connect to inhouse networks.
Specially designed for North America	No
Current Limiting Circuit-Breaker	No
Degree of Protection	IEC: IP65, UL/CSA Type: -

Dimensions

Dimensions

Assets (links)

Declaration of CE Conformity

00002509

Instruction Leaflets

IL04802008Z2018_02

Manuals

MN04802008Z_DE (German) MN04802008Z_EN (English)

Additional product information (links)

IL04802008Z Enclosed kit information	
IL04802008Z Enclosed kit information	ftp://ftp.moeller.net/D0CUMENTATION/AWA_INSTRUCTIONS/IL04802008Z2018_02.pdf
MN04802008Z Operator manual XVH300	
MN04802008Z Bedienerhandbuch XVH300 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802008Z_DE.pdf
MN04802008Z Operator manual XVH300 - English	ftp://ftp.moeller.net/D0CUMENTATION/AWB_MANUALS/MN04802008Z_EN.pdf