## SIEMENS

## Data sheet

## 6AV7863-4MA16-2AA0

SIMATIC IFP2200 V2 PRO, 22 multi-touch display (16:9) with 1920x1080 pixel resolution, PRO variant support arm, with operator control, for 24 V DC, DisplayPort, can be placed up to 100 m away HDBaseT, USB on the rear side, standard design



Figure similar

General information	
Product type designation	IFP2200 V2 PRO
Short designation	Flat Panel 22" PRO multi-touch ext.
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	21.5 in; 22"
Screen diagonal [cm]	54.6 cm
Display width	476.1 mm
Display height	267.8 mm
On Screen Display (OSD) configuration	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit
Viewing angle	178° x 178°
Resolution (pixels)	
Image resolution	1 920 x 1 080
<ul> <li>Horizontal image resolution</li> </ul>	1 920 pixel
<ul> <li>Vertical image resolution</li> </ul>	1 080 pixel
Pixel size, horizontal	0.248 mm
Pixel size, vertical	0.248 mm
General features	
Brightness/contrast	250 cd/m <sup>2</sup> / 1 000:1
<ul> <li>non-reflective and tempered mineral glass screen</li> </ul>	Yes
Detachable from computer unit	100 m; HDBaseT protocol
• Luminance	250 cd/m <sup>2</sup>
Backlighting	
<ul> <li>Type of backlighting</li> </ul>	LED
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	30 000 h; At 25°C
Backlight dimmable	Yes; 0-100 %
Control elements	
Control elements	multi-touch screen
Input device	
<ul> <li>Integrated mouse cursor control</li> </ul>	Yes; Also externally via USB
Touch operation	
Design as touch screen	Yes
Design as multi-touch screen	Yes; Projective-capacitive
Monitor keyboard	Yes
Installation type/mounting	
Design	Support arm mounting
Front mounting	No
Support arm mounting	Yes

Stand mounting     No       VESA mounting     Yes; With VESA adapter set       maximum permitted forward tilt angle from vertical     45°       maximum permitted backward tilt angle from vertical     45°       Supply voltage     DC       Rated value (DC)     24 V; PELV / SELV floating       permissible range, lower limit (DC)     19.2 V       permissible range, upper limit (DC)     28.8 V       Input current     Current consumption (rated value)       Current consumption, max.     1.3 A       Starting current inrush Pt     0.5 A*s       Power loss, typ.     24 W       Power loss, typ.     24 W       Power loss, max.     31 W       Interfaces     2; USB 2.0 type A       USB on the rear     Yes; 2x onboard       Connection for keyboard/mouse     USB       Video interfaces     .       • USB/apPort     Yes; Display port V1.2       Touch interfaces     .       • USB     Yes       Degree and class of protection     IP65       IP (at the front)     IP65       NEMA (front)     IP65	VESA mounting       Yes; With VESA adapter set         maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       DC         Rated value (DC)       24 V; PELV / SELV floating         permissible range, uoper limit (DC)       19.2 V         permissible range, uoper limit (DC)       28.8 V         nput current       28.9 V         Current consumption (rated value)       1 A         Current consumption, max.       1.3 A         Starting current inrush I°t       0.5 A°-s         Power loss, typ.       24 W         Power loss, max.       31 W         Power loss, max.       31 W         Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Oracetion for keyboard/mouse       USB         Video interfaces       1         Usign upper timefaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Outientierfaces       2; USB 2.0 type A         USB       Yes; Display port V1.2         Touch interfaces       1         USB       Yes; Display port V1.2         Touch interfaces       Yes	Stand mounting No
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permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Input current       28.8 V         Current consumption (rated value)       1 A         Current consumption, max.       1.3 A         Starting current inrush I <sup>A</sup> t       0.5 A <sup>2</sup> .s         Power loss.       Power loss, typ.         Power loss, typ.       24 W         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         Number of USB interfaces       2; USB 2.0 type A         USB       Video interfaces         Video interfaces       USB         Video interfaces       USB         Video interfaces       Ves; Display port V1.2         Touch interfaces       -         USB       Yes         Degree and class of protection       IP65         IP (rear)       IP65         NEMA (front)       IP65	permissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 Vnput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I <sup>A</sup> t0.5 A <sup>2</sup> ·sPower loss24 WPower loss, typ.24 WPower loss, max.31 Wnterfaces2; USB 2.0 type AVBB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfacesyes; Display port V1.2Touch interfacesYes; Display port V1.2Touch interfacesYes• USBYesDegree and class of protectionYes	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       45°
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Connection for keyboard/mouse     USB       Video interfaces        • DisplayPort     Yes; Display port V1.2       Touch interfaces        • USB     Yes       Degree and class of protection     IP65       IP (rear)     IP65       NEMA (front)     IP65	Connection for keyboard/mouse     USB       Video interfaces     Video interfaces       • DisplayPort     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)Current consumption, max.1.3 AStarting current inrush I²t0.5 A²·sPower loss, typ.24 WPower loss, max.31 W
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Touch interfaces       • USB     Yes       Degree and class of protection     IP (at the front)       IP (rear)     IP65       NEMA (front)     IP65	Touch interfaces     USB     Yes       Degree and class of protection     Yes	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCSupply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput current1Current consumption (rated value)1A1.3 AStarting current inrush I²t0.5 A²-sPower loss31 WPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboard
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IP (at the front)     IP65       IP (rear)     IP65       NEMA (front)     IP65		maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput current1 ACurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush l²t0.5 A² sPower loss, typ.24 WPower loss, typ.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardVideo interfacesUSBVideo interfacesUSBVideo interfacesYes; Display port V1.2
IP (at the front)     IP65       IP (rear)     IP65       NEMA (front)     IP65		maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)Current consumption, max.1.3 AStarting current inrush I°t0.5 A²-sPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfacesUSB• DisplayPortYes; Display port V1.2
IP (rear) IP65 NEMA (front)		maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)Current consumption, max.1.3 AStarting current inrush I*t0.5 A²-sPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AVideo interfaces2; USB 2.0 type AVideo interfacesUSBVideo interfacesUSBVideo interfaces4; Sonbard• USBYes; Display port V1.2
NEMA (front)		maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         DC           Rated value (DC)         24 V; PELV / SELV floating           permissible range, lower limit (DC)         19.2 V           permissible range, upper limit (DC)         28.8 V           Input current         1.3 A           Current consumption (rated value)         1 A           Current innush I*         0.5 A²-s           Power loss, typ.         24 W           Power loss, max.         31 W           Interfaces         21 USB 2.0 type A           Video interfaces         2; USB 2.0 type A           USB on the rear         Yes; 2x onboard           OpsipalyPort         Yes; Display port V1.2           Touch interfaces         USB           • USB
		maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         DC           Rated value (DC)         24 V; PELV / SELV floating           permissible range, lower limit (DC)         28.8 V           permissible range, upper limit (DC)         28.8 V           Input current         U           Current consumption (rated value)         1 A           Current consumption, max.         1.3 A           Starting current inrush I°t         0.5 A°.s           Power loss, typ.         24 W           Power loss, max.         31 W           Interfaces         2; USB 2.0 type A           Vies interfaces         2; USB 2.0 type A           Vies interfaces         2; USB 2.0 type A           Vieb inte
Enclosure Type 4 at the front     Yes		maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput current1 ACurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush IPt0.5 A²sPower loss, typ.24 WPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfacesyes; 2x onboardVideo interfacesYes; Display port V1.2Touch interfacesyes• USB AYesPotertacesYesI yes and class of protectionIPA65I P (rear)IPA65
	• Enclosure Type 4 30 me mont	maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         DC           Type of supply voltage         DC           Rated value (DC)         24 V; PELV / SELV floating           permissible range, lower limit (DC)         19.2 V           permissible range, upper limit (DC)         28.8 V           Input current         Current consumption (rated value)           Current consumption, max.         1.3 A           Starting current inrush IPt         0.5 A² s           Power loss, typ.         24 W           Power loss, typ.         25 USB 2.0 type A           USB on the rear         Vise jate jate jate jate jate jate jate jat
		maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         DC           Type of supply voltage         DC           Rated value (DC)         24 V; PELV / SELV floating           permissible range, lower limit (DC)         19.2 V           permissible range, upper limit (DC)         28.8 V           Input current         Current consumption (rated value)           Current consumption (rated value)         1 A           Current consumption, max.         1.3 A           Starting current inrush Pt         0.5 A° s           Power loss, typ.         24 W           Power loss, max.         31 W           Interfaces         2; USB 2.0 type A           USB on the rear         Yes; 2x onboard           Concetion for keyboard/mouse         USB           Video interfaces         2; USB 2.0 type A           USB on the rear         Yes; 2x onboard           DisplayPort         Yes; 2x onboard           UsB on the rear         Yes; 2k onboard           UsB on the rear         Yes; Display port V1.2           Touch interfaces         IP           USB         Yes           DisplayPort         Yes;
	Enclosure Type 4x at the front Yes	maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         DC           Type of supply voltage         DC           Rated value (DC)         24 V; PELV / SELV floating           permissible range, lower limit (DC)         19.2 V           permissible range, upper limit (DC)         28.8 V           Input current         Current consumption (rated value)           Current consumption, max.         1.3 A           Starting current inrush Pt         0.5 A*s           Power loss, max.         31 W           Power loss, max.         31 W           Interfaces         2; USB 2.0 type A           USB on the rear         Yes; 2x onboard           Connection for keyboard/mouse         USB           Video interfaces         2; USB 2.0 type A           USB on the rear         Yes; 2x onboard           Connection for keyboard/mouse         VisB           Video interfaces         Yes; Display port V1.2           Touch interfaces         Yes           USB         Yes           DisplayPort         Pes           USB         Yes           Degree and class of protection         Pes
	Enclosure Type 4x at the front Yes  Standards, approvals, certificates	maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         DC           Rated value (DC)         24 V; PELV / SELV floating           permissible range, lower limit (DC)         19.2 V           permissible range, upper limit (DC)         28.8 V           Input current         Current consumption (rated value)           Current consumption (rated value)         1 A           Current consumption (rated value)         24 W
	Enclosure Type 4x at the front Yes  Standards, approvals, certificates  Certificate of suitability hazardous zone 2/22; shipbuilding	maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         DC           Rated value (DC)         24 V; PELV / SELV floating           permissible range, lower limit (DC)         19.2 V           permissible range, upper limit (DC)         28.8 V           purt current         1.3 A           Current consumption (rated value)         1 A           Current consumption, max.         1.3 A           Starting current innsh Pt         0.5 A°s           Power loss, typ.         24 W           Power loss, typ.         24 W           Power loss, max.         31 W           Interfaces         13 W           USB on the rear         Yes; 20 ktpe A           USB on the rear         Yes; 20 ktpe A           USB on the rear         Yes; Display port V1.2           Toduk interfaces         1004 kterfaces           USB         Yes           DisplayPort         P65           NetMA (front)         IP65           NEMA (front)         Yes           Enclosure Type 4 xt the front         Yes           Starting approvals, certificates         Yes
	Enclosure Type 4x at the front Yes  Standards, approvals, certificates  Certificate of suitability hazardous zone 2/22; shipbuilding CE mark Yes	maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         DC           Supply voltage         DC           Rated value (DC)         24 V; PELV / SELV floating           permissible range, ower limit (DC)         19.2 V           permissible range, upper limit (DC)         28.8 V           permissible range, upper limit (DC)         19.2 V           Current consumption (rated value)         1 A           Power loss, typ.         24 W           Power loss, max.         13 M           Power loss, max.         10 W           Vertage         21 W           Power loss, max.         10 W           Power loss, typ.         24 W           Power loss, typ.         24 W           Power loss, typ.         10 S           Power loss, typ.         21 W           Power loss, typ.
	Enclosure Type 4x at the front Yes  Standards, approvals, certificates  Certificate of suitability hazardous zone 2/22; shipbuilding  CE mark UL approval Yes	maximum permitted backward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Stupply voltage         DC           Rated value (DC)         24 V; PELV / SELV floating           permissible range, jower limit (DC)         19.2 V           permissible range, upper limit (DC)         28.8 V           permissible range, upper limit (DC)         28.8 V           fugut current         T           Current consumption (rated value)         1.A           Current consumption, max.         1.3 A           Starting current inrush Pt         0.5 A°s           Power loss, max.         3.1 W           Power loss, max.         3.1 W           Interfaces         2: USB 2.0 type A           USB on the rear         Yes; 2x onboard           Obes of USB interfaces         2: USB 2.0 type A           Video interfaces         Yes 2.0 type A           Video interfaces         Yes 2.0 type A
	Enclosure Type 4x at the front Yes  Standards, approvals, certificates  Certificate of suitability hazardous zone 2/22; shipbuilding  CE mark Yes  UL approval Yes  cULus Yes; Corresponds to UL 508	maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         DC           Rated value (DC)         24 V; PELV / SELV floating           permissible range, lower limit (DC)         19.2 V           permissible range, upper limit (DC)         28.8 V           Input current         1           Current consumption (reted value)         1.A           Current consumption (reted value)         1.3 A           Statring current limush IP         0.5 A°s           Power loss, typ.         24 W           Power loss, typ.         24 W           Power loss, max.         31 W           Interfaces         2: USB 2.0 type A           USB on the rear         Yes; 2x onboard           Connection for keyboard/mouse         USB           Video interfaces         2: USB 2.0 type A           USB on the rear         Yes; 2x onboard           • DisplayPort         Yes; 2x onboard           • USB or therefaces         2: USB 2.0 type A           Use portection         Yes           • USB or therefaces         2: USB 2.0 type A           USB or the rear         Yes; Display port V1.2           • DisplayPort
	• Enclosure Type 4x at the front     Yes       Standards, approvals, certificates     Yes       Certificate of suitability     hazardous zone 2/22; shipbuilding       CE mark     Yes       UL approval     Yes       cULus     Yes; Corresponds to UL 508       FM approval     Available soon	maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Supply voltage         DC           Rated value (DC)         24 V. PELV / SELV floating           permissible range, lower limit (DC)         192 V           permissible range, upper limit (DC)         28.8 V           Input current         28.8 V           Current consumption (rated value)         1 A           Current consumption, max.         1 3 A           Starting current inrush Pt         0.5 A* s           Power loss, max.         31 W           Interfaces         31 W           Interfaces         2 (USB 2.0 type A)           USB on the rear         Yes; 2 xonboard           Connection for keyboard/mouse         USB           Video interfaces         Yes; Display port V1.2           Touch interfaces         Yes; Display port V1.2           Touch interfaces         Yes           USB         Yes           USB         Post class of protection           IP (earh         Pe65           NEMA (front)         Yes           Enclosure Type 4 at the front         Yes           USB on the rear         Yes           USB
	• Enclosure Type 4x at the frontYesStandards, approvals, certificatesHazardous zone 2/22; shipbuildingCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)Yes	maximum permitted backward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Suppty voltage         DC           Rated value (DC)         24 V. PELV / SELV floating           permissible range, lower limit (DC)         19 2 V           permissible range, upper limit (DC)         28.8 V           Input current         1.3           Current consumption (rated value)         1.4           Current consumption, max.         1.3.4           Starting current inush Pt         0.6 A*s           Power loss, max.         3.1 W           Power loss, max.         3.1 W           Interfaces         2.1 US 2.0 type A           USB on the rear         Yes; 2.0 oboard           Obs linterfaces         USB           Video interfaces         USB           Video interfaces         1.3.6           Video interfaces         Yes; Display port V1.2           Orden interfaces         Yes; Display port V1.2           Outs interfaces         Yes           USB         Yes           Degree and class of protection         Pe           IP (a the front)         IP65           IP (a the front)         Yes           Stardous yape
	• Enclosure Type 4x at the frontYesStandards, approvals, certificatesCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)Yes	maximum permitted forward ill angle from vertical45°maximum permitted backward ill angle from vertical45°Supply voltageDCRated value (DC)24 V. PELV / SELV floatingpermissible range, lower limit (DC)192 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption, raz.Current consumption, raz.1.3 AStarting current inrush Pt0.5 A°sPower loss, typ.24 WPower loss, typ.24 WPower loss, typ.31 WInterfaces14USB on the rearYes; 2x onboard• DisplayPortYes; 2x onboard• DisplayPortYes; Display port V1.2• Touch Interfaces1• USBYes• DisplayPortYes; Display port V1.2• DisplayPortYes; Display port V1.2• DisplayPortYes• Enclosure Type 4 at t
	• Enclosure Type 4x at the frontYesStandards, approvals, certificateshazardous zone 2/22; shipbuildingCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-4, EN 61000-6-2	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Stapply voltageDCRated value (DC)24 V/ PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, lower limit (DC)28.8 VInput currentUCurrent consumption (nated value)1.ACurrent consumption, max.1.3 ACurrent consumption, max.1.3 AStarting current inrush Pt0.6 Ars.Power loss, typ.24 WPower loss, max.31 WInterfacesVUSB on the rearYes; Zx onboardNumber of USB interfaces2.1 USB 2.0 type AVideo interfacesYes; Zx onboardObsplayPortYes; Zx onboardNumber of USB interfacesYesUSB on the rearYes; Zx onboardOuch interfacesYesUSB on the rearYesNuch and facesYesUSB on the rearYesNuch and facesYesIn let facesYesUSB on protectionYesVerticatesYesUSB on protectionYesStarding spervals, currentionYesUSB on protectionYesUSB on protectionY
	• Enclosure Type 4x at the frontYesStandards, approvals, certificateshazardous zone 2/22; shipbuildingCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-4, EN 61000-6-2Use in hazardous areas	maximup permitted forward tilt angle from vertical45°maximup permitted backward tilt angle from vertical45°Stypby voltageDCRated value (DC)24 V, PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput current
	• Enclosure Type 4x at the frontYesStandards, approvals, certificatesCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYesUL usprovalYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-4, EN 61000-6-2Use in hazardous areasYes• ATEX Zone 2Yes	maximum permitted forward tilt angle from vertical         45°           maximum permitted backward tilt angle from vertical         45°           Type of supply voltage         DC           Rated value (DC)         24 V, PELV / SELV floating           permissible range, lower limit (DC)         19.2 V           permissible range, lower limit (DC)         28.8 V           Input current         Current consumption (rated value)         1.A           Current consumption (rated value)         1.A         Current consumption, max.           Starting current inrush Pt         0.6 Ars.         Current consumption, max.           Power loss, typ.         24 W         Power loss, typ.           Power loss, typ.         24 W         Power loss, typ.           Power loss, max,         31 W         Interfaces           Connection for keyboard/mouse         USB 2.0 type A         Current consumption (rated value)           Visite Interfaces         2; USB 2.0 type A         Current consumption (rated value)           IbiglayPort         Yes; Display port V1.2         Consection for keyboard/mouse           Visite Interfaces         2; USB 2.0 type A         Current consumption, ease and class of protection           IP (rate firon)         IP65         Current consumption, ease and class of protection           IP (rate
	• Enclosure Type 4x at the frontYesStandards, approvals, certificatesYesCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-4, EN 61000-6-2Use in hazardous areasYes• ATEX Zone 2Yes• ATEX Zone 22Yes	maximum permitted barward tilt angle from vertical         45°           maximum permitted barward tilt angle from vertical         45°           Stoppt voltage         DC           Rated value (DC)         24 V, PELV IsBLV floating           permissible range, lover limit (DC)         28.8 V           Input current         28.8 V           Current consumption (rated value)         1.A           Current consumption (rated value)         1.A           Current consumption (rated value)         0.5 A°s           Power loss, tilt angle from vertical         3.0 SA as           Power loss, tilt angle from vertical         24 W           Power loss, tilt angle from vertical         3.0 SA as           Power loss, tilt angle from vertical         24 W           Power loss, tilt angle from vertical         3.0 SA as           Power loss, tilt angle from vertical         3.0 W           Interfaces         2.0 SB 2.0 type A           USB on the rear         Veis 2.2 volbaard           Connection for keyboard/mouse         USB           Viels interfaces         2.0 SB 2.0 type A           Viels interfaces         2.0 SB 2.0 type A           USB on the rear         Yees; 2x onbaard           Operation for keyboard/mouse         USB           Vi
IECEx Zone 2 Yes	• Enclosure Type 4x at the frontYesStandards, approvals, certificateshazardous zone 2/22; shipbuildingCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesUse in hazardous areasYes• ATEX Zone 2Yes• IECEx Zone 2Yes• IECEx Zone 2Yes	maximu permitted barvard tilt angle from vertical45°maximu permitted barvard tilt angle from vertical45°Type of supply voltageDCRated value (DC)24 V, PELV floatingpermissible range, lower limit (DC)91.2 Vpermissible range, lower limit (DC)28.8 Vinput currentUCurrent consumption (rated value)1 ACurrent consumption (rated value)1 ACurrent consumption (rated value)1 ACurrent consumption (rated value)24 WPower loss, typ.24 WPower loss, t
IECEx Zone 22     Yes	• Enclosure Type 4x at the frontYesStandards, approvals, certificateshazardous zone 2/22; shipbuildingCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-4, EN 61000-6-2Use in hazardous areasYes• ATEX Zone 2Yes• IECEx Zone 22Yes• IECEx Zone 22Yes• IECEx Zone 22Yes	maximu permitted backward tilt angle from vertical45°maximu permitted backward tilt angle from vertical45°maximu permitted backward tilt angle from vertical45°Type of supply voltageDCRated value (DC)24 V, PELV floatingpermissible range, lover limit (DC)19.2 Vpermissible range, lover limit (DC)19.2 Vpermissible range, lover limit (DC)05.8 a VInput current05.8 a VCurrent consumption (rated value)1 ACurrent consumption (rated value)1 ACurrent consumption (rated value)0.5 a A SPower loss, max.31 MPower loss, max.31 WPower loss, max.31 WPower loss, max.31 WPower loss, max.31 WInterfaces24 WVideo interfaces24 WOutput24 WOutput24 WNumber of USB interfaces24 WPower loss, max.31 MInterfaces24 WNumber of USB interfaces24 WVideo interfaces24 WVideo interfaces<
ECEx Zone 22 Yes     FM Class I Division 2 No	• Enclosure Type 4x at the frontYesStandards, approvals, certificateshazardous zone 2/22; shipbuildingCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-4, EN 61000-6-2Use in hazardous areasYes• ATEX Zone 2Yes• LECEx Zone 22Yes• FM Class I Division 2No	maximum permitted forward tit angle from vertical45°maximum permitted backward tit angle from vertical45°maximum permitted backward tit angle from vertical45°Stoppy voltageDCRated value (DC)24 V. PELV / SEV footingpermissible range, upper limit (DC)28.8 Vpermissible range, upper limit (DC)28.8 Vpermissible range, upper limit (DC)28.8 VCurrent consumption (rated value)1 ACurrent consumption, max.0.5 A*sPower loss, fyp.24 WPower loss, fyp.24 WPower loss, max.31 WIteratesPower loss, fyp.24 WPower loss, f
IECEx Zone 22 Yes     FM Class I Division 2 No  Ambient conditions	• Enclosure Type 4x at the frontYesStandards, approvals, certificatesCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-4, EN 61000-6-2Use in hazardous areasYes• ATEX Zone 2Yes• IECEx Zone 22Yes• IECEx Zone 22Yes• FM Class I Division 2NoArbient conditionsNo	maximum permitted barward tit angle from vertical45°maximum permited barward tit angle from vertical45°Type of supply voltageDCRated value (DC)24 V, PELV / SELV floatingpermissible range, upper limit (DC)19.2 Vpermissible range, upper limit (DC)19.2 Vpermissible range, upper limit (DC)10.2 Vpermissible range, upper limit (DC)10.2 Vpermissible range, upper limit (DC)10.2 Vpermissible range, upper limit (DC)10.5 Å*aCurrent consumption, max.10.5 Å*aPower loss, pp.24.WPower loss, nax.13.MPower loss, max.24.WPower loss, max.24.WPower loss, max.31.WInterfaces24.WS 2.0 uppe AUSB on the rear24.WS 2.0 uppe AVoldes Interfaces24.WS 2.0 uppe AUSB on the rearVes: Display port V1.2Touch InterfacesYes: Display port V1.2IndecosYes: Display port V1.2Porter loss of protectionYesPorter loss of protectionYesIf (etch (roth))Ipe5NEMA (front)Yes- Enclosure Type 4 at the frontYes- Encl
ECEx Zone 22 Yes     FM Class I Division 2 No  Ambient conditions  Ambient temperature during operation	• Enclosure Type 4x at the front       Yes         Standards, approvals, certificates       Pacardous zone 2/22; shipbuilding         Certificate of suitability       hazardous zone 2/22; shipbuilding         CE mark       Yes         UL approval       Yes         cULus       Yes; Corresponds to UL 508         FM approval       Available soon         RCM (formerly C-TICK)       Yes         EAC (formerly Gost-R)       Yes         EMC       CE, EN 55011, EN 61000-6-4, EN 61000-6-2         Use in hazardous areas       Yes         • ATEX Zone 2       Yes         • ATEX Zone 22       Yes         • IECEx Zone 22       Yes         • IECEX Zone 22       Yes         • FM Class I Division 2       No         Ambient temperature during operation       Yes	maximum permitted barvard til angle from vertical         45°           maximum permitted barvard til angle from vertical         45°           Type of supply voltage         DC           Rated value (OC)         24 V, PELV / SELV foating           permissible range, uper limit (DC)         19.2 V           permissible range, uper limit (DC)         28.0 V           permissible range, uper limit (DC)         28.0 V           Current consumption (rate value)         1.A           Current consumption, max.         1.3 A           Staring current numsh P         0.5 Å*.8           Power loss, pp.         24 W
ECEx Zone 22 Yes     FM Class I Division 2 No  Ambient conditions  Ambient temperature during operation     o min. 0 °C	• Enclosure Type 4x at the frontYesStandards, approvals, certificatesCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-2Use in hazardous areasYes• ATEX Zone 2Yes• IECEX zone 2Yes• IECEX zone 2Yes• FM Class I Division 2NoAmbient temperature during operationNo °C	maximum permitted backward tilt angle from verkaal45°maximum permitted backward tilt angle from verklaal45°Type of stupply voltageDCPated value (DC)24 V.PELV / SELV floatingpermissible range, uper limit (DC)19.2 Vpermissible range, uper limit (DC)28.8 Vpermissible range, uper limit (DC)28.9 Vpermissible range, uper limit (DC)1.3 AStarting current tonsumption (rated value)1.4Current consumption, max.1.3 AStarting current inrush Pt0.5 A*sPower loss, typ.24 WPower loss, typ. <td< td=""></td<>
<ul> <li>IECEx Zone 22</li> <li>FM Class I Division 2</li> <li>No</li> <li>Ambient conditions</li> <li>Ambient temperature during operation         <ul> <li>min.</li> <li>0 °C</li> <li>max.</li> <li>45 °C</li> </ul> </li> </ul>	• Enclosure Type 4x at the frontYesStandards, approvals, certificatesCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-4, EN 61000-6-2Use in hazardous areasYes• ATEX Zone 2Yes• IECEX Zone 22Yes• IECEX Zone 22Yes• FM Class I Division 2NoAmbient temperature during operationNo• min.0 °C• max.45 °C	maximum permitted forwal till angle from vertical45°maximum permitted backwart till angle from vertical45°maximum permitted backwart till angle from vertical45°Type of supply voltageDCType of supply voltageDCPermissible range, uoper limit (DC)24 V. PELV / SELV flashingpermissible range, uoper limit (DC)28.8 Vpermissible range, uoper limit (DC)10.2 NCurrent consumption (inded value)1.3 ACurrent consumption (inded value)0.5 A*aCurrent consumption, inax.0.5 A*aPower loss, fup.24 WPower loss, fup.20 StandardPower loss, fup.20 StandardPower loss, fup.20 StandardUSB on the rear20 StandardUSB on the rearYes. 20 standardI (fer fort)1965Power loss, fup.1965NEMA (front)YesI (fer fort)1965NEMA (front)YesI (fer fort)YesI (fer fort)Yes
<ul> <li>IECEx Zone 22</li> <li>FM Class I Division 2</li> <li>No</li> <li>Ambient conditions</li> <li>Ambient temperature during operation         <ul> <li>min.</li> <li>0 °C</li> <li>max.</li> <li>45 °C</li> </ul> </li> <li>Ambient temperature during storage/transportation</li> </ul>	• Enclosure Type 4x at the front       Yes         Standards, approvals, certificates       hazardous zone 2/22; shipbuilding         Certificate of suitability       hazardous zone 2/22; shipbuilding         CE mark       Yes         UL approval       Yes         cULus       Yes; Corresponds to UL 508         FM approval       Available soon         RCM (formerly C-TICK)       Yes         EAC (formerly Gost-R)       Yes         EMC       CE, EN 55011, EN 61000-6-4, EN 61000-6-2         Use in hazardous areas       Yes         • ATEX Zone 2       Yes         • EICEEx Zone 22       Yes         • EICEX Zone 22       Yes         • FM Class I Division 2       No         Ambient temperature during operation       0 °C         • max.       45 °C	maximum permitted forwartical45°maximum permitted backwart tilt angle from vertical45°maximum permitted backwart tilt angle from vertical45°Type of supply voltageDCType of supply voltageDCPatted value (DC)42 V.PELV / SELV Matingpermissible range, ower limit (DC)18.2 Vpermissible range, ower limit (DC)18.2 Vpermissible range, ower limit (DC)13.3Current consumption (nated value)1.3Current consumption (nated value)1.3Current consumption (nated value)2.4 WPower loss, fyp.2.4 WPo
• IECEx Zone 22     Yes       • FM Class I Division 2     No       Ambient conditions     Image: Condition of the second of	Enclosure Type 4x at the front     Yes       Standards, approvals, certificates     hazardous zone 2/22; shipbuilding       Certificate of suitability     hazardous zone 2/22; shipbuilding       CE mark     Yes       UL approval     Yes       cULus     Yes; Corresponds to UL 508       FM approval     Available soon       RCM (formerly C-TICK)     Yes       EAC (formerly Gost-R)     Yes       EMC     CE, EN 55011, EN 61000-6-4, EN 61000-6-2       Use in hazardous areas     Yes       • ATEX Zone 2     Yes       • ATEX Zone 22     Yes       • IECEx Zone 22     Yes       • ENC IECEX Zone 22     Yes       • FM Class I Division 2     No       Ambient temperature during operation     0 °C       • min.     0 °C       • max.     45 °C       Ambient temperature during storage/transportation     -20 °C	maximum permitted forwall it angle from vertical45°maximum permitted backward tilt angle from vertical45°assimum permitted backward tilt angle from vertical45°Type of supply voltageDCPermissible range, lower link (DC)24 V. PELV / SELV floatingpermissible range, lower link (DC)24 V. PELV / SELV floatingpermissible range, upper link (DC)18.2 VQurent consumption (nato value)1.3Current consumption (nato value)1.3Current consumption (nato value)24.0 VCurrent consumption (nato value)24.0 VPower loss, typ.24.0 VPower loss, max1.3Power loss, max2.0 SB 2.0 type AVerter consumption (nato value)2.0 SB 2.0 type AData for the sybaard mouse2.0 SB 2.0 type AVerter consumption (nato value)2.0 SB 2.0 type APower loss, max2.0 SB 2.0 type APower loss, max2.0 SB 2.0 type APower loss, hop.2.0 SB 2.0 type APower loss, max1.0 CPower loss, max1.0 CPower loss, max2.0 SB 2.0 type AData for the sybaard mouseVertex consumption (nato value)Consection for keybaard mouseVertex consumption (nato value)Power loss, maxYes- oligale/PortYes- oligale/PortYes- oligale/PortYesPorter constructionYes- oligale/PortYes- oligale/PortYes- oligale/PortYes- oligale/Po
• IECEx Zone 22       Yes         • FM Class I Division 2       No         Ambient conditions       Ambient temperature during operation         • min.       0 °C         • max.       45 °C         Ambient temperature during storage/transportation         • min.       -20 °C         • max.       60 °C	• Enclosure Type 4x at the frontYesStandards, approvals, certificatesCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-2Use in hazardous areasYes• ATEX Zone 2Yes• ECE x Zone 22Yes• ECE x Zone 22Yes• ECE x Zone 22Yes• EMCNoAmbient conditions0 °CAmbient temperature during operation0 °C• min.45 °CAmbient temperature during storage/transportation-20 °C• min20 °C• max.60 °C	maximum permitted forwart til angle from vertical49°maximum permitted backwart til angle from vertical49°assimum permitted backwart til angle from vertical49°Type of supply voltageDCType of supply voltageDCAtted valle (CC)44', VELV / SELV floatingpermissible range, upper limit (DC)19.2 Vpermissible range, upper limit (DC)10.2 Vpermissible range, upper limit (DC)26.8 vand carrent consumption (rated value)1.4Current consumption (rated value)1.8 AStarting current innuch Pt26.8 vPower loss, typ.24.WPower loss, typ.24.WPower loss, typ.24.WNumber of USB interfaces2.USB 2.0 typ. AUSB on the rear2.8 S2.0 typ. AUSB on the rear4.9 S2.0 typ. AVideo interfaces2.0 SB- USB or potection1965- Potect loss of protection1965- Potech at the front196-
<ul> <li>IECEx Zone 22</li> <li>FM Class I Division 2</li> <li>No</li> <li>Ambient conditions</li> <li>Ambient temperature during operation         <ul> <li>min.</li> <li>0 °C</li> <li>max.</li> <li>45 °C</li> </ul> </li> <li>Ambient temperature during storage/transportation         <ul> <li>min.</li> <li>-20 °C</li> <li>max.</li> <li>60 °C</li> </ul> </li> <li>Attitude during operation relating to sea level</li> </ul>	• Enclosure Type 4x at the front       Yes         Standards, approvals, certificates       hazardous zone 2/22; shipbuilding         Certificate of suitability       hazardous zone 2/22; shipbuilding         CE mark       Yes         UL approval       Yes; Corresponds to UL 508         FM approval       Available soon         RCM (formerly C-TICK)       Yes         EAC (formerly Gost-R)       Yes         EMC       CE, EN 55011, EN 61000-6-4, EN 61000-6-2         Use in hazardous areas       Ves         • ATEX Zone 2       Yes         • ATEX Zone 22       Yes         • ECCEx Zone 2       Yes         • ENC Loc 2       Yes         • ECEx Zone 22       Yes         • FM Class I Division 2       No         Ambient conditions       45°C         Ambient temperature during operation       0 °C         • max,       45°C         Ambient temperature during storage/transportation       -20 °C         • max,       60 °C         Attitude during operation relating to sea level       -20 °C	maximum permitted boards thi angle from vertical45°maximum permitted backward til angle from vertical45°stand value (DC)DCBatted value (DC)24 V. PELV / SELV floatingpermissible range, ower lint (DC)19.2 Vpermissible range, ower lint (DC)26.8 Vatted value (DS)14Current consumption (rated value)1ACurrent consumption (rated value)1ACurrent consumption (rated value)0.5 A°.3Starting current invish PI0.5 A°.3Power loss, hyp.24.WPower loss, nax.1.3 AStarting current invish PI0.5 A°.3Power loss, hyp.24.WPower loss, hyp.24.WPower loss, nax.1.3 AStarting current invish PI0.5 A°.3Power loss, hyp.24.WPower loss, hyp.42.WPower loss, hyp.24.WPower loss, hyp.42.WPower loss, hyp.24.WPower loss, hyp.24.WPower loss, hyp.24.WPower loss, hyp.24.WPower loss, hyp.24.WPower loss, hyp.24.
• IECEx Zone 22       Yes         • FM Class I Division 2       No         Ambient conditions       Ambient temperature during operation         • min.       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       -20 °C         • max.       60 °C         Attitude during operation relating to sea level       -20 °C         • Installation altitude above sea level, max.       3 500 m	• Enclosure Type 4x at the front       Yes         Standards, approvals, certificates       hazardous zone 2/22; shipbuilding         CE mark       Yes         UL approval       Yes         cULus       Yes; Corresponds to UL 508         FM approval       Available soon         RCM (formerly C-TICK)       Yes         EAC (formerly Gost-R)       Yes         EMC       CE, EN 55011, EN 61000-6-4, EN 61000-6-2         Use in hazardous areas          • ATEX Zone 2       Yes         • ATEX Zone 2       Yes         • IECEx Zone 2       Yes         • IECEx Zone 2       Yes         • FM class I Division 2       No         Ambient temperature during operation       0 °C         • max.       0 °C         • max.       60 °C         Atbitute during operation relating to sea level       -20 °C         • installation atlitude above sea level, max.       3 500 m	maximum permitted boackward itt angle fom vertical45°maximum permitted boackward itt angle fom vertical45°Stapp' voltageDCType of supp' voltageDCPatted value (DC)24 V/ PELV / SELV foatingpermissible range, lower lim (LOC)19.2 Vpermissible range, lower lim (LOC)19.2 Vpermissible range, lower lim (LOC)10.2 VCorrect consumption, max.13.AStarting current limsh fl05.8*aPower loss, typ.24.WPower loss, typ.24.W<
<ul> <li>IECEx Zone 22</li> <li>FM Class I Division 2</li> <li>FM Class I Division 2</li> <li>No</li> <li>Ambient conditions</li> <li>Ambient temperature during operation         <ul> <li>min.</li> <li>0 °C</li> <li>max.</li> <li>45 °C</li> </ul> </li> <li>Ambient temperature during storage/transportation         <ul> <li>min.</li> <li>-20 °C</li> <li>max.</li> <li>60 °C</li> </ul> </li> <li>Attitude during operation relating to sea level         <ul> <li>Installation altitude above sea level, max.</li> <li>3 500 m</li> </ul> </li> </ul>	• Enclosure Type 4x at the front         Yes           Standards, approvals, certificates	maximum permited forwarties45°maximum permited backward it angle from vertical45°maximum permited backward it angle from vertical45°Type of supply voltageDCRater value (CC)24.V PELV / SELV floatingpermissible range, lower limit (CC)19.2 Vpermissible range, lower limit (CC)28.8 VInput super limit (CC)28.8 VInput super limit (CC)28.8 VCurrent consumption, max.1.3 ACurrent consumption (rader value)0.5 Å*Power loss, typ.24.WPower loss, t
• IECEx Zone 22       Yes         • FM Class I Division 2       No         Ambient conditions       Ambient temperature during operation         • min.       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       -20 °C         • max.       60 °C         Attitude during operation relating to sea level       -20 °C         • Installation altitude above sea level, max.       3 500 m	• Enclosure Type 4x at the front         Yes           Standards, approvals, certificates	maximum permited forwarties45°maximum permited backward it angle from vertical45°maximum permited backward it angle from vertical45°Type of supply voltageDCRater value (CC)24.V PELV / SELV floatingpermissible range, lower limit (CC)19.2 Vpermissible range, lower limit (CC)28.8 VInput super limit (CC)28.8 VInput super limit (CC)28.8 VCurrent consumption, max.1.3 ACurrent consumption (rader value)0.5 Å*Power loss, typ.24.WPower loss, t
<ul> <li>IECEx Zone 22</li> <li>FM Class I Division 2</li> <li>FM Class I Division 2</li> <li>No</li> <li>Ambient conditions</li> <li>Ambient temperature during operation         <ul> <li>min.</li> <li>0 °C</li> <li>max.</li> <li>45 °C</li> </ul> </li> <li>Ambient temperature during storage/transportation         <ul> <li>min.</li> <li>-20 °C</li> <li>max.</li> <li>60 °C</li> </ul> </li> <li>Attitude during operation relating to sea level         <ul> <li>Installation altitude above sea level, max.</li> <li>3 500 m</li> </ul> </li> </ul>	• Enclosure Type 4x at the front         Yes           Standards, approvals, certificates	maximu permited boxed bit angle from vertical45°Bappi voltageDCStappi voltageDCType of suppiv voltageDCRelax vulue (DC)24 V PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, lower limit (DC)29.8 VInput suppiv voltageUCurrent consumption (rated value)13.8 AStafting current formasking and permissible range, upper limit (DC)29.8 VPower loss, flyp.24.0 VPower loss, flyp.24.0 VPower loss, flyp.24.0 VPower loss, flyp.24.0 VPower loss, flyp.20.58 2.0 Sype ALUSB on the rearVes: 20.0 Spa AUSB on the rearVes: 20.0 Spa AUSB on the rearVes: 20.0 Spa AUSB on the rearVes: Dippely port V1.2Tournet informacesVes: Dippely port V1.2US and the formationVes: Dippely port V1.2US and that formationVe
• IECEx Zone 22       Yes         • FM Class I Division 2       No         Ambient conditions       Image: Conditions         Ambient temperature during operation       0 °C         • min.       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       -20 °C         • min.       -20 °C         • max.       60 °C         Altitude during operation relating to sea level         • Installation altitude above sea level, max.       3 500 m         Relative humidity         • Operation, max.       95 %; no condensation         Vibrations       1 gn	• Enclosure Type 4x at the frontYesStandards, approvals, certificatesCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-4, EN 61000-6-2Use in hazardous areasYes• ATEX Zone 2Yes• ATEX Zone 22Yes• IECEx Zone 2Yes• IECEX Zone 2Yes <td>makma permitsed forward is angle from werkal45°Bargaly voltage0Bargaly voltage0Bargaly voltage0Bargaly voltage0Dip of angly voltage0Bargaly voltage0Parter value (CC)28 A/ Vpermissible range, lower lind (CC)28 A/ VInstance partice (Sampa) (Sampa) (Sampa) (Sampa)10.4Current consumption (Fade value)10.4Current consumption (Fade value)10.4Current consumption (Fade value)10.4Power loss, naw,10.4Power loss, naw,24 WPower loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9USB in foraceVes 20 orbandCommotion for keybeard/mouseUSB and purcer lossPower loss, naw,10.9Power loss, naw,10.9Powe</td>	makma permitsed forward is angle from werkal45°Bargaly voltage0Bargaly voltage0Bargaly voltage0Bargaly voltage0Dip of angly voltage0Bargaly voltage0Parter value (CC)28 A/ Vpermissible range, lower lind (CC)28 A/ VInstance partice (Sampa) (Sampa) (Sampa) (Sampa)10.4Current consumption (Fade value)10.4Current consumption (Fade value)10.4Current consumption (Fade value)10.4Power loss, naw,10.4Power loss, naw,24 WPower loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9USB in foraceVes 20 orbandCommotion for keybeard/mouseUSB and purcer lossPower loss, naw,10.9Power loss, naw,10.9Powe
• IECEx Zone 22       Yes         • FM Class I Division 2       No         Ambient conditions       Image: Conditions         Ambient temperature during operation       0 °C         • min.       0 °C         • max.       45 °C         Ambient temperature during storage/transportation       -20 °C         • max.       60 °C         Altitude during operation relating to sea level       -20 °C         • Installation altitude above sea level       3 500 m         Relative humidity       95 %; no condensation         Vibrations       25 %; no condensation	• Enclosure Type 4x at the frontYesStandards, approvals, certificatesCertificate of suitabilityhazardous zone 2/22; shipbuildingCE markYesUL approvalYescULusYes; Corresponds to UL 508FM approvalAvailable soonRCM (formerly C-TICK)YesEAC (formerly Gost-R)YesEMCCE, EN 55011, EN 61000-6-4, EN 61000-6-2Use in hazardous areasYes• ATEX Zone 2Yes• ATEX Zone 22Yes• IECEx Zone 2Yes• IECEX Zone 2Yes <td>makma permitsed forward is angle from werkal45°Bargaly voltage0Bargaly voltage0Bargaly voltage0Bargaly voltage0Dip of angly voltage0Bargaly voltage0Parter value (CC)28 A/ Vpermissible range, lower lind (CC)28 A/ VInstance partice (Sampa) (Sampa) (Sampa) (Sampa)10.4Current consumption (Fade value)10.4Current consumption (Fade value)10.4Current consumption (Fade value)10.4Power loss, naw,10.4Power loss, naw,24 WPower loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9USB in foraceVes 20 orbandCommotion for keybeard/mouseUSB and purcer lossPower loss, naw,10.9Power loss, naw,10.9Powe</td>	makma permitsed forward is angle from werkal45°Bargaly voltage0Bargaly voltage0Bargaly voltage0Bargaly voltage0Dip of angly voltage0Bargaly voltage0Parter value (CC)28 A/ Vpermissible range, lower lind (CC)28 A/ VInstance partice (Sampa) (Sampa) (Sampa) (Sampa)10.4Current consumption (Fade value)10.4Current consumption (Fade value)10.4Current consumption (Fade value)10.4Power loss, naw,10.4Power loss, naw,24 WPower loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9Power loss, naw,10.9USB in foraceVes 20 orbandCommotion for keybeard/mouseUSB and purcer lossPower loss, naw,10.9Power loss, naw,10.9Powe
IP65		rtical       45°         vertical       45°         DC       24 V; PELV / SELV floating         19.2 V       28.8 V         24 V: PELV / SELV floating       1.3 A         0.5 A².s       0.5 A².s         24 W       31 W         25 USB 2.0 type A       Yes; 2x onboard         USB       USB         Yes; Display port V1.2
IP (rear) IP65 NEMA (front)	IP (at the tront)	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)Current consumption, max.1.3 AStarting current inrush I°t0.5 A°-sPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AVideo interfaces2; USB 2.0 type AVideo interfacesUSB• DisplayPortYes; Display port V1.2Touch interfacesYes• USBYes
IP (rear)     IP65       NEMA (front)     IP65		maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)Current consumption, max.1.3 AStarting current inrush I*t0.5 A²-sPower loss, typ.24 WPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AVideo interfaces2; USB 2.0 type AVideo interfacesUSBVideo interfacesUSBVideo interfacesUSBUsin the rearYes; Display port V1.2Touch interfacesYes• USBYes
IP (rear) IP65 NEMA (front)	IP (at the front)	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)Current consumption, max.1.3 AStarting current inrush I°t0.5 A²-sPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfacesUSB• DisplayPortYes; Display port V1.2
IP (at the front)     IP65       IP (rear)     IP65       NEMA (front)     IP65		maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)Current consumption, max.1.3 AStarting current inrush I°t0.5 A²-sPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfacesUSB• DisplayPortYes; Display port V1.2
IP (at the front)     IP65       IP (rear)     IP65       NEMA (front)     IP65		maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush l²t05 A² sPower loss, typ.24 WPower loss, typ.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardVideo interfacesUSBVideo interfacesUSBVideo interfacesYes; Display port V1.2
Degree and class of protection       IP (at the front)     IP65       IP (rear)     IP65       NEMA (front)     IP65	Degree and class of protection	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush l²t05 A² sPower loss, typ.24 WPower loss, typ.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardVideo interfacesUSBVideo interfacesUSBVideo interfacesYes; Display port V1.2
Degree and class of protection       IP (at the front)     IP65       IP (rear)     IP65       NEMA (front)     IP65	Degree and class of protection	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush l²t0.5 A²·sPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AVideo interfaces2; USB 2.0 type AVideo interfaces2; USB 2.0 type A
• USB     Yes       Degree and class of protection     IP (at the front)       IP (at the front)     IP65       IP (rear)     IP65       NEMA (front)     IP65	• USB Yes Degree and class of protection	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush l²t0.5 A²·sPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AVideo interfaces2; USB 2.0 type AVideo interfaces2; USB 2.0 type A
Touch interfaces       • USB     Yes       Degree and class of protection       IP (at the front)     IP65       IP (rear)     IP65       NEMA (front)     IP65	Touch interfaces     USB     Yes       Degree and class of protection     Yes	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput current1 ACurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I²t0.5 A²·sPower loss31 WInterfaces31 WNumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSB
Touch interfaces       • USB     Yes       Degree and class of protection       IP (at the front)     IP65       IP (rear)     IP65       NEMA (front)     IP65	Touch interfaces     USB     Yes       Degree and class of protection     Yes	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput current1 ACurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I²t0.5 A²·sPower loss31 WInterfaces31 WNumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSB
• DisplayPort     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes       Degree and class of protection     IP65       IP (at the front)     IP65       IP (rear)     IP65       NEMA (front)     IP65		maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCSupply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput current1Current consumption (rated value)1A1.3 AStarting current inrush I²t0.5 A²-sPower loss31 WPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboard
• DisplayPort     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes       Degree and class of protection     IP65       IP (at the front)     IP65       IP (rear)     IP65       NEMA (front)     IP65		maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCSupply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput current1Current consumption (rated value)1A1.3 AStarting current inrush I²t0.5 A²-sPower loss31 WPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboard
Video interfaces     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes       Degree and class of protection     IP (at the front)       IP (rear)     IP65       NEMA (front)     IP65	Video interfaces     • DisplayPort     Yes; Display port V1.2       Touch interfaces     • USB     Yes       Degree and class of protection     Yes	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCSupply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput current1 ACurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I°t0.5 A²-sPower loss24 WPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type A
Video interfaces     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes       Degree and class of protection     IP (at the front)       IP (rear)     IP65       NEMA (front)     IP65	Video interfaces     • DisplayPort     Yes; Display port V1.2       Touch interfaces     • USB     Yes       Degree and class of protection     Yes	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCSupply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I²t0.5 A²·sPower loss24 WPower loss, typ.24 WPower loss, max.31 WInterfaces
Connection for keyboard/mouse     USB       Video interfaces        • DisplayPort     Yes; Display port V1.2       Touch interfaces        • USB     Yes       Degree and class of protection     IP65       IP (rear)     IP65       NEMA (front)     IP65	Connection for keyboard/mouse     USB       Video interfaces     Video interfaces       • DisplayPort     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCSupply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I²t0.5 A²·sPower loss24 WPower loss, typ.24 WPower loss, max.31 WInterfaces
USB on the rear     Yes; 2x onboard       Connection for keyboard/mouse     USB       Video interfaces     USB       • DisplayPort     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes       Degree and class of protection     IP65       IP (rear)     IP65       NEMA (front)     IP65	USB on the rear     Yes; 2x onboard       Connection for keyboard/mouse     USB       Video interfaces     Video interfaces       • DisplayPort     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)Current consumption, max.1.3 AStarting current inrush I²t0.5 A²·sPower loss, typ.24 WPower loss, max.31 W
USB on the rear     Yes; 2x onboard       Connection for keyboard/mouse     USB       Video interfaces     USB       • DisplayPort     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes       Degree and class of protection     IP65       IP (rear)     IP65       NEMA (front)     IP65	USB on the rear     Yes; 2x onboard       Connection for keyboard/mouse     USB       Video interfaces     Video interfaces       • DisplayPort     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)Current consumption, max.1.3 AStarting current inrush I²t0.5 A²-sPower loss, typ.24 W
Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       USB         • DisplayPort       Yes; Display port V1.2         Touch interfaces       Yes         • USB       Yes         Degree and class of protection       IP65         IP (rear)       IP65         NEMA (front)       IP65	Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       USB         • DisplayPort       Yes; Display port V1.2         Touch interfaces       Yes         • USB       Yes	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       DC         Type of supply voltage       DC         Rated value (DC)       24 V; PELV / SELV floating         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Input current       1 A         Current consumption (rated value)       1 A         Starting current inrush I²t       0.5 A²-s
InterfacesNumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfacesUSB• DisplayPortYes; Display port V1.2Touch interfaces• USBYesDegree and class of protectionIP65IP (rear)IP65NEMA (front)IP65	Interfaces       2; USB 2.0 type A         Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       USB         • DisplayPort       Yes; Display port V1.2         Touch interfaces       Yes         • USB       Yes	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       DC         Type of supply voltage       DC         Rated value (DC)       24 V; PELV / SELV floating         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Input current       1 A         Current consumption (rated value)       1 A         Starting current inrush I²t       0.5 A²-s
Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       USB         • DisplayPort       Yes; Display port V1.2         Touch interfaces       Video         • USB       Yes         Degree and class of protection       IP65         IP (rear)       IP65         NEMA (front)       IP65	Power loss, max.     31 W       nterfaces     2; USB 2.0 type A       Number of USB interfaces     2; USB 2.0 type A       USB on the rear     Yes; 2x onboard       Connection for keyboard/mouse     USB       Video interfaces     USB       • DisplayPort     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes	maximum permitted forward tilt angle from vertical45°maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I²t0.5 A²-s
Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       USB         • DisplayPort       Yes; Display port V1.2         Touch interfaces       Video         • USB       Yes         Degree and class of protection       IP65         IP (rear)       IP65         NEMA (front)       IP65	Power loss, max.     31 W       nterfaces     2; USB 2.0 type A       Number of USB interfaces     2; USB 2.0 type A       USB on the rear     Yes; 2x onboard       Connection for keyboard/mouse     USB       Video interfaces     USB       • DisplayPort     Yes; Display port V1.2       Touch interfaces     Yes       • USB     Yes	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       45°         Type of supply voltage       DC         Rated value (DC)       24 V; PELV / SELV floating         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Input current       1 A         Current consumption (rated value)       1 A         Current consumption, max.       1.3 A
Power loss, typ.       24 W         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         VSB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       USB         • DisplayPort       Yes; Display port V1.2         Touch interfaces       • USB         • USB       Yes         Degree and class of protection       IP (at the front)         IP (rear)       IP65         NEMA (front)       IP65	Power loss, typ.       24 W         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       USB         • DisplayPort       Yes; Display port V1.2         Touch interfaces       Yes         • USB       Yes	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       45°         Type of supply voltage       DC         Rated value (DC)       24 V; PELV / SELV floating         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Input current       1 A         Current consumption (rated value)       1 A         Current consumption, max.       1.3 A
Power loss       24 W         Power loss, max.       31 W         Interfaces       31 W         Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       USB         • DisplayPort       Yes; Display port V1.2         Touch interfaces       •         • USB       Yes         Degree and class of protection       IP65         IP (rear)       IP65         NEMA (front)       IP65	Power loss         Power loss, typ.       24 W         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       USB         • DisplayPort       Yes; Display port V1.2         Touch interfaces       Yes         • USB       Yes	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       DC         Type of supply voltage       DC         Rated value (DC)       24 V; PELV / SELV floating         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Input current       1 A
Starting current inrush I²t0.5 A²-sPower loss, typ.Power loss, typ.24 WPower loss, max.31 WInterfacesNumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfaces9Video interfaces9OutputYes; Display port V1.2Touch interfaces9USBYesDegree and class of protection1P65IP (rear)1P65NEMA (front)1P65	Starting current inrush I²t0.5 A²-sPower loss24 WPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type ANumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfacesYes; Display port V1.2Touch interfacesYes; Display port V1.2OutputYesDisplay PortYesDisplay fortYesOutputYesDisplay fortYesDisplay	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       DC         Type of supply voltage       DC         Rated value (DC)       24 V; PELV / SELV floating         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V
Starting current inrush I²t       0.5 A²-s         Power loss       24 W         Power loss, typ.       24 W         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       USB         • DisplayPort       Yes; Display port V1.2         Touch interfaces       -         • USB       Yes         Degree and class of protection       IP65         IP (rear)       IP65         NEMA (front)       IP65	Starting current inrush I²t       0.5 A².s         Power loss       24 W         Power loss, max.       31 W         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       USB         • DisplayPort       Yes; Display port V1.2         Touch interfaces       Yes         • USB       Yes	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       DC         Type of supply voltage       DC         Rated value (DC)       24 V; PELV / SELV floating         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V
Current consumption, max.1.3 AStarting current inrush I²t0.5 A²-sPower loss24 WPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type ANumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfaces0• DisplayPortYes; Display port V1.2Touch interfacesYes• USBYesDegree and class of protectionIP65IP (rear)IP65NEMA (front)IP65	Current consumption, max.1.3 AStarting current inrush I²t0.5 A²-sPower loss24 WPower loss, max.31 WPower loss, max.31 WInterfaces2; USB 2.0 type AVumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfaces1.3 A• DisplayPortYes; Display port V1.2Touch interfacesYes• USBYesDegree and class of protection1.3 A	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       DC         Type of supply voltage       DC         Rated value (DC)       24 V; PELV / SELV floating         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V
Current consumption (rated value)       1 A         Current consumption, max.       1.3 A         Starting current inrush I°t       0.5 A²-s         Power loss       Power loss, typ.         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       -         • DisplayPort       Yes; Display port V1.2         Touch interfaces       -         • USB       Yes         Degree and class of protection       IP65         IP (rear)       IP65         NEMA (front)       IP65	Current consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I²t0.5 A².sPower lossPower loss, typ.Power loss, typ.24 WPower loss, max.31 WInterfacesVumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfacesUSBVideo interfacesVes; Display port V1.2Touch interfacesYes• USBYesObserved colspan="2">Yes of protection	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       DC         Type of supply voltage       DC         Rated value (DC)       24 V; PELV / SELV floating         permissible range, lower limit (DC)       19.2 V
Current consumption (rated value)       1 A         Current consumption, max.       1.3 A         Starting current inrush I <sup>a</sup> t       0.5 A <sup>2</sup> ·s         Power loss       Power loss, typ.         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         VuBb on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       -         • DisplayPort       Yes; Display port V1.2         Touch interfaces       -         • USB       Yes         Degree and class of protection       IP65         IP (rear)       IP65         NEMA (front)       IP65	Current consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I²t0.5 A².sPower lossPower loss, typ.Power loss, typ.24 WPower loss, max.31 WInterfacesVumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfacesUSBVideo interfacesVes; Display port V1.2Touch interfacesYes• USBYesObserved colspan="2">Yes of protection	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       DC         Type of supply voltage       DC         Rated value (DC)       24 V; PELV / SELV floating         permissible range, lower limit (DC)       19.2 V
Input current         Current consumption (rated value)       1 A         Current consumption, max.       1.3 A         Starting current inrush I°t       0.5 A <sup>2</sup> ·s         Power loss       Power loss, typ.         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         Number of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces	nput current         Current consumption (rated value)       1 A         Current consumption, max.       1.3 A         Starting current inrush I²t       0.5 A²-s         Power loss       24 W         Power loss, typ.       24 W         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         Vumber of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       2         • DisplayPort       Yes; Display port V1.2         Touch interfaces       Yes         • USB       Yes	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       DC         Type of supply voltage       24 V; PELV / SELV floating
permissible range, upper limit (DC)       28.8 V         Input current       28.8 V         Current consumption (rated value)       1 A         Current consumption, max.       1.3 A         Starting current inrush I*t       0.5 A*s         Power loss, typ.       24 W         Power loss, typ.       24 W         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         Wumber of USB interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       0         • DisplayPort       Yes; Display port V1.2         Touch interfaces       -         • USB       Yes         Degree and class of protection       IP65         IP (rear)       IP65         NEMA (front)       IP65	permissible range, upper limit (DC)       28.8 V         nput current       28.8 V         Current consumption (rated value)       1 A         Current consumption, max.       1.3 A         Starting current inrush I <sup>a</sup> t       0.5 A <sup>a</sup> ·s         Power loss       24 W         Power loss, typ.       24 W         Power loss, max.       31 W         nterfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Video interfaces       USB         Video interfaces       yes; Display port V1.2         Touch interfaces       Yes         USB       Yes	maximum permitted forward tilt angle from vertical     45°       maximum permitted backward tilt angle from vertical     45°       Supply voltage     DC
permissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I²t0.5 A²-sPower lossPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfaces-• DisplayPortYes; Display port V1.2Touch interfaces-• USBYesDegree and class of protectionIP65IP (art the front)IP65NEMA (front)IP65	permissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 Vnput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I <sup>A</sup> t0.5 A <sup>2</sup> ·sPower loss24 WPower loss, typ.24 WPower loss, max.31 Wnterfaces2; USB 2.0 type AVBB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfacesyes; Display port V1.2Touch interfacesYes; Display port V1.2Touch interfacesYes• USBYesDegree and class of protectionYes	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°         Supply voltage       45°
permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Input current       1         Current consumption (rated value)       1 A         Current consumption, max.       1.3 A         Starting current inrush IPt       0.5 A2-s         Power loss, typ.       24 W         Power loss, typ.       24 W         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces          • DisplayPort       Yes; Display port V1.2         Touch interfaces          • USB       Yes         Degree and class of protection       IP65         IP (rear)       IP65         NEMA (front)       IP65	permissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 Vnput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I <sup>A</sup> t0.5 A <sup>2</sup> ·sPower loss24 WPower loss, typ.24 WPower loss, max.31 Wnterfaces2; USB 2.0 type AVBB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfacesyes; Display port V1.2Touch interfacesYes; Display port V1.2Touch interfacesYes• USBYesDegree and class of protectionYes	maximum permitted forward tilt angle from vertical     45°       maximum permitted backward tilt angle from vertical     45°
Rate value (DC)       24 V; PELV / SELV floating         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Input current          Current consumption (rated value)       1 A         Current consumption, max.       1.3 A         Starting current inrush I <sup>a</sup> t       0.5 A <sup>a</sup> 's         Power loss, typ.       24 W         Power loss, max.       31 W         Interfaces       2; USB 2.0 type A         USB on the rear       Yes; 2x onboard         Connection for keyboard/mouse       USB         Video interfaces       -         • USB       Yes         Degree and class of protection       IP65         IP (rear)       IP65         NEMA (front)       IP65	Atter value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 Vnput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I*t0.5 A*-sPower lossPower loss, typ.Power loss, max.31 Wnumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardVideo interfacesUSBVideo interfacesyes; Display port V1.2Touch interfacesYesDoggree and class of protectionYes	maximum permitted forward tilt angle from vertical       45°         maximum permitted backward tilt angle from vertical       45°
Type of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VInput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush IPt0.5 A²-sPower loss, typ.24 WPower loss, max.31 WInterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardConnection for keyboard/mouseUSBVideo interfaces-• USBYesDegree and class of protectionIP65IP (at the front)IP65NEMA (front)IP65	Type of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 Vnput current28.8 VCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I²t0.5 A²-sPower loss24 WPower loss, typ.24 WPower loss, max.31 Wnterfaces2; USB 2.0 type AUSB on the rearYes; 2x onboardOuncetion for keyboard/mouseUSBVideo Interfacesyes; Display port V1.2Touch InterfacesYes0.USBYesDegree and class of protectionYes	maximum permitted forward tilt angle from vertical 45°
Supply voltage     DC       Rated value (DC)     24 V; PELV / SELV floating       permissible range, lower limit (DC)     19.2 V       permissible range, upper limit (DC)     28.8 V       Input current     Current consumption (rated value)     1 A       Current consumption, max.     1.3 A       Starting current inrush IPt     0.5 A*s       Power loss     Power loss, typ.       Power loss, max.     31 W       Interfaces     2: USB 2.0 type A       USB on the rear     Yes; 2x onboard       Connection for keyboard/mouse     USB       Video interfaces     ves; Display port V1.2       Touch interfaces     -       • USB     Yes       Degree and class of protection     IP65       IP (at the front)     IP65       IP (at the front)     IP65       NEMA (front)     IP65	Supply voltage         DC           Type of supply voltage         DC           Rated value (DC)         24 V; PELV / SELV floating           permissible range, lower limit (DC)         19.2 V           permissible range, upper limit (DC)         28.8 V           nput current         28.8 V           Current consumption (rated value)         1 A           Current consumption, max.         1.3 A           Starting current inrush I°t         0.5 A²-s           Power loss         Power loss, typ.           Power loss, typ.         24 W           Power loss, max.         31 W           nterfaces         2; USB 2.0 type A           USB on the rear         Yes; 2x onboard           Connection for keyboard/mouse         USB           Video interfaces         -           • DisplayPort         Yes; Display port V1.2           Touch interfaces         -           • USB         Yes	
maximum permitted backward tilt angle from vertical     45°       Supply voltage     DC       Rated value (DC)     24 V; PELV / SELV floating       permissible range, lower limit (DC)     19.2 V       permissible range, upper limit (DC)     28.8 V       Input current     IA       Current consumption (rated value)     1 A       Current consumption, max.     1.3 A       Starting current inush Pt     0.5 As²s       Power loss, typ.     24 W       Power loss, max.     31 W       Interfaces     2; USB 2.0 type A       USB on the rear     Yes; 2x onboard       Connection for keyboard/mouse     USB       Video interfaces     9       • USB     Yes       Degree and class of protection     IP65       IP (art he front)     IP65       IP (art he front)     IP65	maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 Vnput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I°t0.5 A²-sPower loss, typ.24 WPower loss, max.31 WnterfacesVumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2 sonboardOoden interfaces• DisplayPortYes; Display port V1.2Touch interfaces• USBYes	
maximum permitted backward tilt angle from vertical     45°       Suppty voltage     DC       Rated value (DC)     24 V; PELV / SELV floating       permissible range, lower limit (DC)     19.2 V       permissible range, upper limit (DC)     28.8 V       Input current     IA       Current consumption (rated value)     1 A       Current consumption, max.     1.3 A       Starting current invish Pt     0.5 As²s       Power loss, typ.     24 W       Power loss, max.     31 W       Interfaces     2; USB 2.0 type A       USB on the rear     Yes; 2x onboard       Connection for keyboard/mouse     USB       Video interfaces     .       • UISB     Yes       Degree and class of protection     IP65       IP (at the front)     IP65       IP (at the front)     IP65       NEMA (front)     IP65	maximum permitted backward tilt angle from vertical45°Supply voltageDCType of supply voltageDCRated value (DC)24 V; PELV / SELV floatingpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 Vnput currentCurrent consumption (rated value)1 ACurrent consumption, max.1.3 AStarting current inrush I°t0.5 A²-sPower loss, typ.24 WPower loss, max.31 WnterfacesVumber of USB interfaces2; USB 2.0 type AUSB on the rearYes; 2 sonboardOoden interfaces• DisplayPortYes; Display port V1.2Touch interfaces• USBYes	

<ul> <li>Shock load during operation</li> </ul>	15 gn	
<ul> <li>shock acceleration during storage/transport</li> </ul>	15 gn	
Mechanics/material		
Enclosure material (front)	In standard design	
Aluminum	Yes	
Aluminum casting	Yes	
• Glass	Yes; at front	
Enclosure material (rear)	aluminum	
Dimensions		
Width	527 mm	
Height	329 mm; Without basic adapter	
Depth	162.8 mm; Without basic adapter	
Width of the housing front	527 mm	
Height of housing front	329 mm	
Weights		
Weight (without packaging)	8.2 kg	
Weight (with packaging)	9.1 kg	

last modified:

5/31/2023 🖸