## SIEMENS

## Data sheet

## 6AV7260-2GM32-1XA3

SIMATIC IPC677D (Panel PC), 2x10/100/1000 Mbit/s Ethernet; 4x USB V3.0, 1x serial (COM1); Watchdog, temperature and Fan monitoring; RAID controller onboard; 22" Touch (1920x 1080); with front USB XEON E3-1268LV3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache VT-D, AMT) Solid-state drive 240 GB 8 GB DDR3 1600 DIMM; 1x PCIE (X16); 1x PCIE (X4) 2x USB additive (1 slot occupied) without operating system SIMATIC IPC DiagMonitor enclosed AC 110/230V industrial power supply unit with NAMUR; Power supply cable USA

General information         IPC27D           Product type designation         IPC27D           Design of display         22* TFT touch           Screen diagonal         22 in           Resolution (bitels)         1 920 pixel           • Morizont lange resolution         1 920 pixel           • Morizont lange resolution         1 920 pixel           • Marsi Trab backlighting (at 25 °C)         30 000 h           Control elements         Front USB 2.0 (900mA)           Touch operation         Yes, analog, resistive           • Morizon at front         Front USB 2.0 (900mA)           Touch operation         Yes, analog, resistive           • Mouse, at front         Front USB 2.0 (900mA)           Touch operation         Yes, analog, resistive           Installation type/mounting         Port horizontal and varicial mounting           Design         Parel PC, buil-in unit           Centrol design at buch screen         Yes           maximu permissible installation angle +/-         20*           Supply voltage         100/240 V AC (autorange); 24 V DC           Line frequency         Yes           • Raded value 60 Hz         Yes           • Raded value 60 Hz         Yes           • Raded value 60 Hz         Yes		power supply unit with NAMUR; Power supply cable USA
Display         22" TFT fouch           Design of display         22 in           Resolution (sizels)         1 920 pixel                • Vortical Image resolution         1 920 pixel                • Write Image resolution         1 920 pixel                • Write Image resolution         1 920 pixel                • MTBF backlighting                  • Mass. at front         Front USB 2.0 (500mA)                • The backlighting in a start in the persition               • Design as bouch screen                 • Design as bouch screen          Yes; analog, resistive                 • Mouse, at front               • Por horizontal and vertical mounting            Design          Port horizontal and vertical mounting              Vers               • Pass                 maximum permissible installation angle s <sup>1,-</sup> 20"              Yes                   • Rated value 50 htz          Yes                 • Rated value 50 htz          Yes                 • Mains buffering               • Nation value 50 htz      <	General information	
Design of display     22" TFT touch       Screen diagonal     22 in       Resolution (pixels)     22 in       • Horizontal image resolution     1 520 pixel       • MUTB: backlighting (at 25 °C)     30 000 h       • Outrot elements     -       • Mouse, at front     Front USB 2.0 (500mA)       • Mouse, at front     Front USB 2.0 (500mA)       • Mouse, at front     Porter elements       • Mouse, at front     Yes; analog, resistive       • Installation typothomuting     Port horizontal and vertical mounting       Design as buch screen     Yes; analog, resistive       • Mounting     Port horizontal and vertical mounting       Design as buch screen     Yes; analog, resistive       • Mounting     Port horizontal and vertical mounting       Design as buch screen     Yes; analog, resistive       • Mounting in portrait format possible     Yes       • Mounting in portrait format possible     Yes       • Rated value 50 htz     Yes       • Rated value 60 htz     Yes       • Rated value 60 htz     Yes       • Rated value 60 htz     Yes       • Processor     Celeron G1620TE (2CZT, 2.2 GHz, 2.1ME Cache); Core I3-4330TE (2C/4T, 2.4 GHz, 4.1ME Cache); Xeon E3-1288L v3 (4C/8T, 2.3 (3.3) GHz, 8.MB Cache, Attrib       • Processor type     Celeron G1620TE (2CZT, 2.2 GHz, 2.1ME Cache); Core I3-4330TE (2C/4T,	Product type designation	IPC677D
Screen diagonal     22 in       Resolution (pixels)     1 920 pixel       • Vortical image resolution     1 920 pixel       Backlighting     • MTBF backlighting (at 25 °C)     30 000 h       Control elements     • MTBF backlighting (at 25 °C)     30 000 h       Final View (at 25 °C)     30 000 h     • MTBF backlighting (at 25 °C)       • MUSe, at front     Front USB 2.0 (500mA)       Touch operation     • Ves; analog, resistive       Installation type/mounting     • Posiegn as touch screen       Mounting     Posiegn as touch screen       Design     Panel PC, bulti-n unit       Centrol design     Panel PC, bulti-n unit       Centrol design     Yes       maximum permissible installation angle +/-     20°       Supply voltage     100/240 V AC (autorange); 24 V DC       Line frequency     Yes       • Rated value 60 Hz     Yes       • Rated value 60 Hz     Yes       • Mains/voltage failure stored energy time     10 ms       Power loss     • Celevon (F 820TE (2C)T, 2.2 GHz, 2 MB Cache); Core (3-4330TE (2C)4T, 2.4 MTT)       • Mains buffering     • Mains/voltage failure stored energy time       • Mains buffering     • Celevon (F 820TE (2C)T, 2.2 GHz, 2 MB Cache); Core (3-4330TE (2C)4T, 2.4 MTT)       • Mains buffering     • Mains/voltage failure stored energy time       • Din	Display	
Resolution (pixels)         • Horizontal image resolution       1 920 pixel         Backlighting       -         • WTEF backlighting (at 25 °C)       30 000 h         Control elements       -         Input device       -         • MURS as front       Front USB 2.0 (500mA)         Touch operation       -         • Design as buch screen       Yes; analog, resistive         Installation type/mounting       -         Mounling in portrait format possible       Yes         Mounling in portrait format possible       Yes         Mounling in portrait format possible       Yes         Type of supply voltage       100/240 V AC (autorange): 24 V DC         Line frequency       Yes         • Ratied value 50 Hz       Yes         • Mains/voltage failure stored energy time       10 ms         Power loss       -         In full configuration       165 W         Processor       -         Processor       -         Processor type       Celeron G1820TE (ZC271, 2.2 GHz, 2 MB Cache); Core i3-4330TE (ZC471, 2.4 GPAH)         Graphic       -         Graphic       -         Processor       -         Prover loss       -	Design of display	22" TFT touch
• Horizontal image resolution     1 920 pixel       • Vertical image resolution     1 080 pixel       ■ Backlighting     1       • MTBF backlighting (at 25 °C)     30 000 h       Control elements     1       • Design as louch screen     Yes; analog, resistive       • Design as louch screen     Yes; analog, resistive       Installation type/mounting     For horizontal and vertical mounting       Design     Panel PC, built-in unit       Control design     Yes       Mounting in portrait format possible     Yes       Mounting in portrait format possible     Yes       Type of supply voltage     100/240 V AC (autorange); 24 V DC       Line frequency     Yes       • Rated value 60 Hz     Yes       • Rated value 60 Hz     Yes       • Mains buffering     10 ms       Processon     Celeron G1820TE (2C2T, 22 GHz, 24 B Gache); Core (3-4330TE (2C2T, 2.4 Gache); Core (3-4330TE (2C2T,	Screen diagonal	22 in
• Vertical image resolution         1 080 pixel           Backliphting         •           • MTBF backliphting (at 25 °C)         30 000 h           Control elements         •           Input device         •           • Mouse, at front         Front USB 2.0 (500mA)           Touch operation         •           • Mouse, at front         Front USB 2.0 (500mA)           Touch operation         •           • Mouse, at front         For horizontal and vertical mounting           Design         For horizontal and vertical mounting           Design         Panel PC, built-in unit           central design         Yes           Mounting in portrait format possible         Yes           maximum permissible installation angle +/-         20*           Supply voltage         100/240 VAC (autorange); 24 V DC           Line frequency         •           • Rated value 50 Hz         Yes           • Rated value 50 Hz         Yes           • Mains buiffering         •           • Nalins buiffering         •           • In bill configuration         10 ms           Proceasor         •           Proceasor         •           Procesor         •	Resolution (pixels)	
Backlighting       30 000 h         • MTBF backlighting (at 25 °C)       30 000 h         Control elements       Front USB 2.0 (500mA)         Touch operation       •         • Design as touch screen       Yes; analog, resistive         Installation type/mounting       For horizontal and vertical mounting         Design as touch screen       Yes; analog, resistive         Installation type/mounting       Panel PC, built-in unit         Oberly of the provided of the p	<ul> <li>Horizontal image resolution</li> </ul>	1 920 pixel
MTBF backlighting (at 25 °C)     30 000 h Control lements Input device      Mouse, at front     Front USB 2.0 (500mA) Touch operation     Design as buch screen     Yes; analog, resistive Installation type/mounting     For horizontal and vertical mounting     Design     Panel PC, built-in unit     central design     Yes Mounting in portrait format possible     Yes Mounting     Type of supply voltage     Tope of supply voltage     Tope of monory     SDD     Yes     Yes Mounting     Yes     Yes Mounting     DOR3-1600 DIMM     Yes	<ul> <li>Vertical image resolution</li> </ul>	1 080 pixel
Control elements         Input device         • Mouse, at front         Front USB 2.0 (500mA)         Touch operation         • Design as touch screen         Yees         Mounting         Point USB 2.0 (500mA)         Mounting         Point of the point of th	Backlighting	
Input device       • Mouse, at front         • Design as touch screen       Yes; analog, resistive         Installation type/mounting       • Design as touch screen         Mounting       Panel PC, built-in unit         Design       Panel PC, built-in unit         central design       Yes         Mounting in portrait format possible       Yes         maximum permissible installation angle +/-       20°         Supply voltage       100/240 V AC (autorange); 24 V DC         Line fraquency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         • Mains buffering       10 ms         Processor       Celeron G1820TE (2C/ZT, 2.2 GHz, 2 MB Cache); Core I3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1206L v3 (4C/8T, 2.3 (3.3) GHz, 0 MB Cache, AMT)         Chipset       Intell DH32C225 PCH         Craphic       Graphics controller         Optical drives       DVD18rtaRW combid-drive, optional         Optical drives       DVD18rtaRW combid-diste drive (SD) 240 GB, potional: 3.5" SATA ≥ 1TB; RAID1 2x.2.5" SATA ≥ 320 GB; solid acteering are wination-damped; RAID1 2x.2.5" SATA ≥ 320 GB; solid acteering are wination-damped; RAID1 2x.2.5" SATA ≥ 320 GB; solid acteering are wination-damped; RAID1 2x.2.5" SATA ≥ 320 GB; solid acteering are wination-damped; RAID1 2x.2.5" SATA ≥ 320 GB; solid acteering are wination-damped; RAID1 2x.2.5" SATA ≥ 320 GB; so	<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	30 000 h
● Mouse, at front       Front USB 2.0 (500mA)         Touch operation       • Design as buck screen       Yes; analog, resistive         Mounting       For horizontal and vertical mounting         Design       Panel PC, built-in unit         Central design       Yes         Mounting in portrait format possible       Yes         maximum permissible installation angle +/-       20*         Supply voltage       100/240 V AC (autorange); 24 V DC         Line frequency       Yes         • Rated value 60 Hz       Yes         • Rated value 60 Hz       Yes         • Mains/oltage failure stored energy time       10 ms         Processor       Processor         Processor type       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core (3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, 4 MT)         Chipset       Intel HD graphics controller P4600 GT2 (Xeon, Core (3); Intel HD graphics controller (Celeron)         Craphic       Soft SAT ≥ 500 GB, optional: 3.5" SAT ≥ 1 TE; RAID1 2x 2.5" SAT ≥ 320 GB, spional: 3.5" SAT ≥ 1 TE; RAID1 2x 2.5" SAT ≥ 320 GB; spional: 3.5" SAT ≥ 1 25; SAT ≥ 320 GB, spional: 3.5" SAT ≥ 320 GB,	Control elements	
Touch operation         Yes; analog, resistive           Installation type/mounting         For horizontal and vertical mounting           Design         Panel PC, built-in unit           Central design         Yes           Mounting in portrait format possible         Yes           maximum permissible installation angle +/-         20°           Supply voltage         100/240 V AC (autorange); 24 V DC           Line frequency         Yes                • Rated value 50 Hz             Yes           • Rated value 50 Hz             Yes           • Rated value 50 Hz             Yes           • Rated value 60 Hz         Yes           • Mains buffering           • Mains/voltage failure stored energy time           Processor           In full configuration         165 W           Processor type         Celeron G1820TE (2C/2T, 22 GHz, 2 MB Cache); Core (3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)           Chipset         Intel DB2C226 PCH           Graphics controller         Celeron (1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core (3, 184 B Cache), AMT)           Chipset         Intel HD graphics controller P4600 GT2 (Xeon, Core (3); Intel HD graphics controller (Celeron)           Drives         D/Data18t drive, Sopi 20 A2 GE (3); Intel HD graphics controller (Celeron) </td <td>Input device</td> <td></td>	Input device	
• Design as buch screen        Yes; analog, resistive          Instalation type/mounting           For horizontal and vertical mounting          Design        Panel PC, built-in unit          central design        Yes          Mounting in portrait format possible        Yes          Mounting in portrait format possible        Yes          maximum permissible installation angle +/-        20°          Supply voltage        100/240 V AC (autorange); 24 V DC          Line frequency        • Rated value 50 Hz          • Rated value 50 Hz        Yes          • Mains buffering        10 ms          • Over loss             In full configuration        165 W          Processor           Processor type        Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core (3-4330TE (2C/4T, 2.4          Graphic           Graphic           Graphics	Mouse, at front	Front USB 2.0 (500mA)
Installation type/mounting Mounting Design Central design Panel PC, built-in unit Central design Panel PC, built-in unit Central design Yes Mounting in portrait format possible Yes Mounting in portrait format possible Yes Yes Yes Yes Processor Processor type Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core I3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3(3.) GHz, 8 MB Cache, AMT) Chipset Graphics Controller Controller Dyteal Graphics Optical drives Dyteal Dyt	Touch operation	
Mounting       For horizontal and vertical mounting         Design       Panel PC, built-in unit         certral design       Yes         Mounting in portrait format possible       Yes         maximum permissible installation angle +/-       20*         Supply voltage       100/240 V AC (autorange); 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 60 Hz       Yes         Mains buffering       • Ves         • Mains/voltage failure stored energy time       10 ms         Processor       Processor         Processor       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core I3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intell DH82C226 PCH         Graphic       Controller         Optical drives       DVD#R#RW combi-drive, optional         Graphic       3:5* SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid stier drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bave vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bave vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bave vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bave vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bave vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bavibration-damped;	<ul> <li>Design as touch screen</li> </ul>	Yes; analog, resistive
Design       Panel PC, built-in unit         central design       Yes         Mounting in portrait format possible       Yes         maximum permissible installation angle +/-       20°         Supply voltage       100/240 V AC (autorange); 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       10 ms         Power loss       10 ms         In full configuration       165 W         Processor       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Intel DH82C226 PCH         Graphics controller       DVDaR±RW combi-drive, optional         Age: solid drives       DVD#R±RW combi-drive, optional         Hard disk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       2/4 / 8 / 16 GB; ECC optional	Installation type/mounting	
central design       Yes         Mounting in portrait format possible       Yes         maximum permissible installation angle +/-       20"         Supply voltage       100/240 V AC (autorange); 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         • Rated value 60 Hz       Yes         • Mains buffering       10 ms         • Mains/voltage failure stored energy time       10 ms         Processor       Processor         Processor       Processor         Processor       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core I3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, ANT)         Chipset       Intel DH82C226 PCH         Graphic       Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)         Drives       DVDaRatRW combi-drive, optional         3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DVB3-1600 DIMM         Main memory       2/4 / 8 / 16 GB; ECC optional	Mounting	For horizontal and vertical mounting
Mounting in portrait format possible     Yes       maximum permissible installation angle +/-     20°       Supply voltage     100/240 V AC (autorange); 24 V DC       Line frequency     •       • Rated value 50 Hz     Yes       • Rated value 60 Hz     Yes       • Mains/voltage failure stored energy time     10 ms <b>Power loss</b> •       In full configuration     165 W       Processor     •       Processor type     Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)       Chipset     Intel DH82C226 PCH       Graphic     •       Graphic     •       Optical drives     DVD±R±RW combi-drive, optional       Hard disk     3.5° SATA ≥ 500 GB, optional: 3.5° SATA ≥ 1 TB; RAID1 2x 2.5° SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5° SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5° SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5° SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5° SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5° SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5° SATA	Design	Panel PC, built-in unit
maximum permissible installation angle +/-     20°       Supply voltage     100/240 V AC (autorange); 24 V DC       Line frequency     100/240 V AC (autorange); 24 V DC       Line frequency     • Rated value 50 Hz       • Rated value 50 Hz     Yes       • Rated value 60 Hz     Yes       • Mains/voltage failure stored energy time     10 ms       Power loss     1       In full configuration     165 W       Processor     Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)       Chipset     Intel DH32C226 PCH       Graphic     Graphics controller       Optical drives     DVD±R±RW combi-drive, optional       3.5° SATA ≥ 500 GB, optional: 3.5° SATA ≥ 1 TB; RAID1 2x 2.5° SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5° SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5° SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5° SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB optional       Memory     Yes; ≥ 240 GB optional       Memory     DDR3-1600 DIMM       Main memory     2/4 / 8 / 16 GB; ECC optional	central design	Yes
Supply voltage       100/240 V AC (autorange); 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 60 Hz       Yes         Mains buffering       • 10 ms         • Mains/voltage failure stored energy time       10 ms         Processor       Processor         Processor type       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller Geron)         Drives       Optical drives         Optical drives       DVD±R±RW combi-drive, optional         Hard disk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; 240 GB optional         Memory       Z/4 / 8 / 16 GB; ECC optional	Mounting in portrait format possible	Yes
Type of supply voltage       100/240 V AC (autorange); 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 60 Hz       Yes         Mains buffering       10 ms         • Mains/voltage failure stored energy time       10 ms         Power loss       In full configuration         In full configuration       165 W         Processor       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core I3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Intel ID graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)         Drives       DVD±R±RW combi-drive, optional         Optical drives       DVD±R±RW combi-drive, optional         Hard disk       3.5" SATA ≥ 500 GB optional: 3.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	maximum permissible installation angle +/-	20°
Line frequency       • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       10 ms         • Mains/voltage failure stored energy time       10 ms         Power loss       In full configuration         In full configuration       165 W         Processor       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller Celeron)         Drives       DVD±R±RW combi-drive, optional         Optical drives       DVD±R±RW combi-drive, optional         Hard disk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Supply voltage	
• Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       10 ms         • Mains/voltage failure stored energy time       10 ms         Power loss       1165 W         In full configuration       165 W         Processor       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Graphics controller         Optical drives       DVD±R±RW combi-drive, optional         Osk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; sold-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB; solt onal         Memory       Yes; ≥ 240 GB optional         Memory       2/4 / 8 / 16 GB; ECC optional	Type of supply voltage	100/240 V AC (autorange); 24 V DC
• Rated value 60 Hz       Yes         Mains buffering       10 ms         • Mains/voltage failure stored energy time       10 ms         Power loss       165 W         Processor       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Intel DH graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)         Drives       DVD±R±RW combi-drive, optional         Optical drives       DVD±R±RW combi-drive, optional         Hard disk       0.5" solf-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Line frequency	
Mains buffering       10 ms         Power loss       165 W         In full configuration       165 W         Processor       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Intel DH82C226 PCH         Graphics controller       Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)         Drives       Optical drives         Indiak       3.5" SATA ≥ 500 GB, optional:         Addisk       3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Rated value 50 Hz	Yes
• Mains/voltage failure stored energy time        10 ms             Power loss           In full configuration        165 W             Processor           Processor type           Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)             Chipset           Intel DH82C226 PCH             Graphic           Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)             Drives           DVD±R±RW combi-drive, optional             Ard disk           3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay             SSD           Yes; ≥ 240 GB optional             Memory           DDR3-1600 DIMM             Main memory           DDR3-1600 DIMM	Rated value 60 Hz	Yes
Power loss         In full configuration       165 W         Processor       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Intel DH82C226 PCH         Graphic       Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)         Drives       DVD±R±RW combi-drive, optional         Hard disk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Mains buffering	
In full configuration       165 W         Processor       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Graphics controller         Graphics controller       Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)         Drives       DVD±R±RW combi-drive, optional         Add disk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Mains/voltage failure stored energy time	10 ms
Processor         Processor type       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Graphics controller         Graphics controller       Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)         Drives       Optical drives         Øptical drives       DVD±R±RW combi-drive, optional         Hard disk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Power loss	
Processor type       Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Intel DH82C226 PCH         Graphics controller       Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)         Drives       Optical drives         Optical drives       DVD±R±RW combi-drive, optional         Hard disk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	In full configuration	165 W
GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)         Chipset       Intel DH82C226 PCH         Graphic       Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)         Drives       DVD±R±RW combi-drive, optional         Ard disk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Processor	
Graphic         Graphics controller       Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)         Drives       DVD±R±RW combi-drive, optional         Age       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Processor type	GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache,
Graphics controller       Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)         Drives       DVD±R±RW combi-drive, optional         Age of the set	Chipset	Intel DH82C226 PCH
Drives       DVD±R±RW combi-drive, optional         Optical drives       DVD±R±RW combi-drive, optional         Hard disk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Graphic	
Optical drives       DVD±R±RW combi-drive, optional         Hard disk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Graphics controller	
Hard disk       3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Drives	
GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay         SSD       Yes; ≥ 240 GB optional         Memory       DDR3-1600 DIMM         Main memory       2 / 4 / 8 / 16 GB; ECC optional	Optical drives	DVD±R±RW combi-drive, optional
Memory         DDR3-1600 DIMM           Type of memory         DDR3-1600 DIMM           Main memory         2 / 4 / 8 / 16 GB; ECC optional	Hard disk	GB; solid-state drive (SSD) $\geq$ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA $\geq$ 320 GB byte in removable drive
Type of memory     DDR3-1600 DIMM       Main memory     2 / 4 / 8 / 16 GB; ECC optional	SSD	Yes; ≥ 240 GB optional
Main memory     2 / 4 / 8 / 16 GB; ECC optional	Memory	
	Type of memory	DDR3-1600 DIMM
Capacity of main memory, max. 16 Gbyte	Main memory	2 / 4 / 8 / 16 GB; ECC optional
	Capacity of main memory, max.	16 Gbyte

Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	2 Mbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
free slots	2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer
Number of PCI slots	2
Number of PCI slots	2
Interfaces	-
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)
Number of PROFINET interfaces	3; Optional
USB port	4x USB 3.0
· · · · · · · · · · · · · · · · · · ·	USB / USB
Connection for keyboard/mouse serial interface	
	1x COM1 (RS 232), optional: 1x COM2 (RS 232)
parallel interface	optional LPT1
Video interfaces	
Graphics interface	1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)
Industrial Ethernet	
Industrial Ethernet interface	Onboard, 2x 10 / 100 / 1000 Mbit, RJ45
— 100 Mbps	Yes
— 1000 Mbps	Yes
nterrupts/diagnostics/status information	
Bus diagnostics	Yes
ntegrated Functions	
Monitoring functions	
<ul> <li>Temperature monitoring</li> </ul>	Yes
Watchdog	Yes
Status LEDs	Yes
• Fan	Yes
<ul> <li>Monitoring function via network</li> </ul>	Optional
EMC	
Interference immunity against discharge of static electricity	
<ul> <li>Interference immunity against discharge of static</li> </ul>	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC
electricity	61000-4-2
Interference immunity against high-frequency electromagnetic fields	
<ul> <li>Interference immunity against high frequency radiation</li> </ul>	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz,
	80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	60% ANI ACC. 10 IEC 61000-4-6
	60% AM acc. to led 61000-4-0
Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge
Interference immunity on supply cables	
<ul> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> </ul>	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge
	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4;
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul>	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul>	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity on signal cables >30m     Interference immunity on signal cables < 30m Interference immunity against voltage surge     asymmetric interference	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m ±2 kV acc. to IEC 61000-4-5, surge asymmetric
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul> Interference immunity against voltage surge <ul> <li>asymmetric interference</li> <li>symmetric interference</li> </ul>	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul> Interference immunity against voltage surge <ul> <li>asymmetric interference</li> <li>symmetric interference</li> </ul> Interference immunity to magnetic fields	<ul> <li>±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±2 kV acc. to IEC 61000-4-5, surge, length &gt; 30 m</li> <li>±1 kV acc. to IEC 61000-4-4; burst; length &lt; 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length &gt; 3 m</li> <li>±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±1 kV acc. to IEC 61000-4-5, surge symmetric</li> </ul>
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul> Interference immunity against voltage surge <ul> <li>asymmetric interference</li> <li>symmetric interference</li> </ul> Interference immunity to magnetic fields <ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m ±2 kV acc. to IEC 61000-4-5, surge asymmetric
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul> Interference immunity against voltage surge <ul> <li>asymmetric interference</li> <li>symmetric interference</li> </ul> Interference immunity to magnetic fields <ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul> Emission of conducted and non-conducted interference	<ul> <li>±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±2 kV acc. to IEC 61000-4-5, surge, length &gt; 30 m</li> <li>±1 kV acc. to IEC 61000-4-4; burst; length &lt; 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length &gt; 3 m</li> <li>±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±1 kV acc. to IEC 61000-4-5, surge symmetric</li> <li>±1 kV acc. to IEC 61000-4-8</li> </ul>
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul> Interference immunity against voltage surge <ul> <li>asymmetric interference</li> <li>symmetric interference</li> </ul> Interference immunity to magnetic fields <ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul> Emission of conducted and non-conducted interference <ul> <li>Interference emission via line/AC current cables</li> </ul>	<ul> <li>±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±2 kV acc. to IEC 61000-4-5, surge, length &gt; 30 m</li> <li>±1 kV acc. to IEC 61000-4-4; burst; length &lt; 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length &gt; 3 m</li> <li>±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±2 kV acc. to IEC 61000-4-5, surge symmetric</li> <li>±1 kV acc. to IEC 61000-4-5, surge symmetric</li> </ul>
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul> Interference immunity against voltage surge <ul> <li>asymmetric interference</li> <li>symmetric interference</li> </ul> Interference immunity to magnetic fields <ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul> Emission of conducted and non-conducted interference <ul> <li>Interference emission via line/AC current cables</li> </ul>	<ul> <li>±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±2 kV acc. to IEC 61000-4-5, surge, length &gt; 30 m</li> <li>±1 kV acc. to IEC 61000-4-4; burst; length &lt; 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length &gt; 3 m</li> <li>±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±1 kV acc. to IEC 61000-4-5, surge symmetric</li> <li>±1 kV acc. to IEC 61000-4-8</li> </ul>
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul> Interference immunity against voltage surge <ul> <li>asymmetric interference</li> <li>symmetric interference</li> </ul> Interference immunity to magnetic fields <ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul> Emission of conducted and non-conducted interference <ul> <li>Interference emission via line/AC current cables</li> </ul>	<ul> <li>±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±2 kV acc. to IEC 61000-4-5, surge, length &gt; 30 m</li> <li>±1 kV acc. to IEC 61000-4-4; burst; length &lt; 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length &gt; 3 m</li> <li>±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±1 kV acc. to IEC 61000-4-5, surge symmetric</li> <li>±1 kV acc. to IEC 61000-4-8</li> </ul>
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul> Interference immunity against voltage surge <ul> <li>asymmetric interference</li> <li>symmetric interference</li> </ul> Interference immunity to magnetic fields <ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul> Emission of conducted and non-conducted interference <ul> <li>Interference emission via line/AC current cables</li> </ul> Degree and class of protection	<ul> <li>±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±2 kV acc. to IEC 61000-4-5, surge, length &gt; 30 m</li> <li>±1 kV acc. to IEC 61000-4-4; burst; length &lt; 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length &gt; 3 m</li> <li>±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±1 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±1 kV acc. to IEC 61000-4-5, surge symmetric</li> <li>±1 kV acc. to IEC 61000-4-8</li> <li>EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A</li> </ul>
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul> Interference immunity against voltage surge <ul> <li>asymmetric interference</li> <li>symmetric interference</li> </ul> Interference immunity to magnetic fields <ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul> Emission of conducted and non-conducted interference <ul> <li>Interference emission via line/AC current cables</li> </ul> Degree and class of protection IP (at the front) IP (rear)	<ul> <li>±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±2 kV acc. to IEC 61000-4-5, surge, length &gt; 30 m</li> <li>±1 kV acc. to IEC 61000-4-4; burst; length &lt; 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length &gt; 3 m</li> <li>±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±1 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±1 kV acc. to IEC 61000-4-5, surge symmetric</li> <li>±1 kV acc. to IEC 61000-4-8</li> <li>EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A</li> </ul>
<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul> Interference immunity against voltage surge <ul> <li>asymmetric interference</li> <li>symmetric interference</li> </ul> Interference immunity to magnetic fields <ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul> Emission of conducted and non-conducted interference <ul> <li>Interference emission via line/AC current cables</li> </ul> Degree and class of protection IP (at the front) IP (rear)	<ul> <li>±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±2 kV acc. to IEC 61000-4-5, surge, length &gt; 30 m</li> <li>±1 kV acc. to IEC 61000-4-4; burst; length &lt; 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length &gt; 3 m</li> <li>±2 kV acc. to IEC 61000-4-5, surge asymmetric</li> <li>±1 kV acc. to IEC 61000-4-5, surge symmetric</li> <li>±1 kV acc. to IEC 61000-4-8</li> <li>EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A</li> </ul>
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<ul> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> <li>Interference immunity against voltage surge <ul> <li>asymmetric interference</li> <li>symmetric interference</li> </ul> </li> <li>Interference immunity to magnetic fields <ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul> </li> <li>Emission of conducted and non-conducted interference <ul> <li>Interference emission via line/AC current cables</li> </ul> </li> <li>Degree and class of protection <ul> <li>IP (at the front)</li> <li>IP (rear)</li> </ul> </li> <li>Standards, approvals, certificates</li> <li>CE mark</li> <li>UL approval</li> </ul>	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m ±2 kV acc. to IEC 61000-4-5, surge asymmetric ±1 kV acc. to IEC 61000-4-5, surge symmetric 100 A/m; to IEC 61000-4-8 EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A Yes Yes
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EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
Ambient conditions	
Ambient temperature during operation	
• min.	5 °C
• max.	45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 $^\circ\mathrm{C}$ (no condensation)
Vibrations	
Vibration resistance during operation acc. to IEC 60068- 2-6	tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s $^2$ (1 g)
Shock testing	
<ul> <li>Shock load during operation</li> </ul>	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks
Operating systems	
pre-installed operating system	Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32- bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI
without operating system	Yes
pre-installed operating system	
Windows 7	Yes; Ultimate 32 bit or 64 bit
Windows 10 Enterprise	Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI
Software	
SIMATIC Software	Optional package with SIMATIC WinCC or WinAC RTX
Dimensions	
Width of the housing front	560 mm
Height of housing front	380 mm
Mounting cutout, width	542 mm
Mounting cutout, height	362 mm
Overall depth	112 mm
<ul> <li>additional mounting depth (optical drive)</li> </ul>	26 mm
Weights	
Weight, approx.	16 kg
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