## **SIEMENS**

## **Data sheet**

## 6AG4021-0AA12-0AA0

SIMATIC IPC127E; without mounting accessories; Atom E3930 (2C/2T) / 2 GB RAM; Extended version; 3x Ethernet RJ45, 4x USB3.0; Without operating system; 32 GB SSD;

Product type designation   PC127E     Installation type/mounting   DIN rail, wall mounting, portrait mounting     Mounting   Box PC, built-in unit     Supply voltage   24 V DC     Mains builfering   Smc Processor		
Mounting	General information	
Mounting	Product type designation	IPC127E
Box PC, bullk-in unit	Installation type/mounting	
Type of surply voltage  • Mains'buffering  • Mains'buffering  • Mains'buffering  • Mains'buffering  Processor  Processor type  Intel Atom E3930 / E3940  Chipset  Graphics controller  Drives  SSD  Yes; 32 / 64 / 128 GB  Memory  Type of memory  DPR4 onboard  Main memory  2 / 4 GB RAM  Capacty of main memory, max.  4 Gbyte  Hardware configuration  Siots  • Number of PCI slots  0 Interfaces  Number of industrial Ethernet interfaces  USB port  Connection for keyboard/mouse  USB / USB  Viteo interfaces  - Graphics interface  - 100 Mbps  - Graphics interface  - 100 Mbps  Protocols  Protocols  Remont  Mentoring turnions  Mentoring turnions  Protocols  Protocols  Remont  Montoring functions  Montoring functions via network  Possor  Possor  Possor  Possor  Possor  Possor  Protocols  Montoring functions  Montoring functions via network  Possor  Posso	Mounting	DIN rail, wall mounting, portrait mounting
Type of supply voltage  Mains buffering  Mains Notification  Mains Notification  Mains Notification  Mains Notification  Processor  Processor  Processor type  Intel Atom E3930 / E3940  SoC  Graphic  Graphics controller  Drives  SSD  Yes; 32 / 64 / 128 GB  Memory  Type of memory  Type of memory  DDR4 onboard  2 / / 4 GB RAM  Capacity of main memory, max.  4 Gbyte  Hardware configuration  Slots  Number of PCI slots  Number of industrial Ethernet interfaces  USB port  Connection for keyboard/mouse  USB / USB  USB / USB  USB / USB  USB / USB  Ves  Protocols  Protocols  Protocols  Protocols (Ethernet)  T CPIP  Yes  Protocols  Frotocols (Ethernet)  T CPIP  Yes  No  Monitoring functions  Monitoring functions via network  EMC  Interference immunity against discharge of static electricity  Interference immunity against high frequency rediation  10 Vm. 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2; ±9 kV air discharge acc. to IEC 61000-4-3; 3 V/m, 2 GHz to IMP acce. to IEC 61000-4-3; 3 V/m, 2 GHz to IMP acce. to IEC 61000-4-3; 3 V/m, 2 GHz to IMP acce. to IEC 61000-4-3; 3 V/m, 2 GHz to IMP acce. to IEC 61000-4-3; 3 V/m, 2 GHz to IMP acce. to IEC 61000-4-3; 3 V/m, 2 GHz to IMP acce. to IEC 61000-4-3; 3 V/m, 2	Design	Box PC, built-in unit
Mains buffering  • Mains/voltage failure stored energy time  • S ms  Processor Type  Chipset  Graphics controller  Drives  SSD  Yes, 32 / 84 / 128 GB  Memory  Type of memory  DDR4 onboard  Main memory  2 / 4 GB RAM  Capacity of main memory, max.  4 Gbyte  Handware configuration  Siots  • Number of PCI slots  • Number of PCI slots  IUSB port  Connection for keyboard/mouse  Video interfaces  • Graphics interface  • Industrial Ethernet interface  1 x DisplayPort  Industrial Ethernet  • Industrial Ethernet interface  — 1000 Mbps — 1000 Mbps — Yes  Protocols  Protocols  Protocols  Protocols  Protocols  • Temperature monitoring • Yes • Vatchdog • Yes • Vatchdog • Yes • Vatchdog • Yes • Monitoring functions via network  EMG  Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against high frequency radiation  10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-2; ±8 kV air discharge acc. t	Supply voltage	
Mains/voltage failure stored energy time 5 ms  Processor Processor type	Type of supply voltage	24 V DC
Processor type Intel Atom E3930 / E3940 Chipset SoC Graphic Graphic sontroller Integrated Drives SSD Yes; 32 / 64 / 128 GB Memory Type of memory DDR4 onboard Main memory 2 / 4 GB RAM Capacity of main memory, max. 4 Gbyte Hardware configuration Slots • Number of PCI slots 0 Interfaces Number of industrial Ethernet interfaces 3; Ethernet (2x RJ45, optional 3x RJ45) USB port 2x USB 3.0 / 4X USB 3.0 Connection for keyboard/mouse USB / USB Video interfaces • Graphics interface interface 1x DisplayPort Industrial Ethernet interface 2x / 3x Ethernet (RJ45) — 100 Mbps Yes — 1000 Mbps Yes Protocols Protocols (Ethernet) • TCP/IP Yes Integrated Functions Monitoring functions • Temperature monitoring Yes • Status LEDs 1x power, 3x user • No • Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against shigh-frequency electromagnetic fields • Interference immunity against shigh frequency radiation • 10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-2; 3 V/m, 2 GHz to	Mains buffering	
Processor type Chipset SoC Graphic Graphics controller Integrated Drives SSD Yes; 32 / 64 / 128 GB Memory Type of memory DDR4 onboard Main memory 2 / 4 GB RAM Capacity of main memory, max. 4 Gbyte Hardware configuration Slots • Number of PCI slots 0 Interfaces Number of industrial Ethernet interfaces USB pot USB pot Connection for keyboard/mouse Video interfaces  • Craphics interface 1x DisplayPort Industrial Ethernet • Industrial Ethernet interface — 100 Mbps Yes  Protocols Protocols Protocols Protocols (Ethernet) • TCP/IP Yes Integrated Functions Monitoring functions  • Temperature monitoring Yes • Status LEDs • Fan • Monitoring function via network EMC  Interference immunity against discharge of static electricity • Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency radiation  10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-2; 34 V/m, 2 GHz to	Mains/voltage failure stored energy time	5 ms
Chipset SoC Graphics controller  Craphics controller  Drives SSD Yes: 32 / 64 / 128 GB  Memory  Type of memory  DDR4 onboard  Alam memory  2 / 4 GB RAM  Capacity of main memory, max.  4 Gbyte  Hardware configuration  Slots  • Number of PCI slots  0 Interfaces  Number of industrial Ethernet interfaces USB pot 2 x USB 3.0 / 4x USB 3.0  Connection for keyboard/mouse USB / USB Video interfaces  • Craphics interface  • Industrial Ethernet  • Industrial Etherne	Processor	
Graphic controller Integrated Drives SSD Yes; 32 / 84 / 128 GB Memory Type of memory DDR4 onboard Main memory 2 / 4 GB RAM 2 GB AM 3 G	Processor type	Intel Atom E3930 / E3940
Graphics controller  Drives  SSD  Memory  Type of memory  DPR4 onboard  Main memory  2 / 4 GB RAM  Capacity of main memory, max.  4 Gbyte  Hardware configuration  Slots  • Number of PCI slots  • Number of industrial Ethernet interfaces  USB yort  Connection for keyboard/mouse  USB / USB  Video interfaces  • Graphics interface  Industrial Ethernet interface  1 x DisplayPort  Industrial Ethernet interface  • ToO Mbps  — 100 Mbps — Yes  Protocols  Protocols (Ethernet)  • TCP/IP  • TCP/IP  Aves  Monitoring functions  Monitoring functions  Monitoring functions  Monitoring functions  Monitoring functions  Monitoring function via network  • Fan  • Monitoring function via network  Optional  EMC  Interference immunity against discharge of static electricity  • Interference immunity against discharge of static electricity  • Interference immunity against high-frequency electromagnetic fields  • Interference immunity against high-frequency radiation  10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-2; 30 V/m, 2 GHz to	Chipset	SoC
SSD Yes; 32 / 64 / 128 GB  Momory  Type of memory  Main memory  Capacity of main memory, max.  Hardware configuration  Slots  Number of PCI slots  Number of Industrial Ethernet interfaces  USB port  Connection for keyboard/mouse  Video interfaces  (Graphics interface)  Industrial Ethernet  Industrial E	Graphic	
SSD Yes; 32 / 64 / 128 GB  Memory  Type of memory  Main memory 2 / 4 GB RAM  Capacity of main memory, max. 4 Gbyte  Hardware configuration  Slots  Number of PCI slots 0  Interfaces  Number of industrial Ethernet interfaces 3; Ethernet (2x RJ45, optional 3x RJ45)  USB port 2x USB 3.0 / 4x USB 3.0  Connection for keyboard/mouse  USB / USB  Video interfaces  Industrial Ethernet interface 1x DisplayPort  Industrial Ethernet interface 2x / 3x Ethernet (RJ45)  — 100 Mbps Yes  — 100 Mbps Yes  Protocols  Protocols (Ethernet)  • TCPIP Yes  Integrated Functions  Monitoring functions  Monitoring functions  Monitoring function in August 1 Stanta LEDs  • Status LEDs  • No  • Monitoring function via network Optional  EMC  Interference immunity against discharge of static electricity  • Interference immunity against high-frequency electromagnetic fields  • Interference immunity against high-frequency radiation  • 10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to	Graphics controller	Integrated
Type of memory DDR4 onboard Main memory 2 / 4 GB RAM Capacity of main memory, max. 4 Gbyte  Hardware configuration Slots  • Number of PCI slots 0  Interfaces Number of industrial Ethernet interfaces 3; Ethernet (2x RJ45, optional 3x RJ45) 2x USB 3.0 / 4x USB 3.0 USB port 2x USB 3.0 / 4x USB 3.0 USB / USB Video interfaces  • Graphics interface 1x DisplayPort Industrial Ethernet interface 2x / 3x Ethernet (RJ45) — 100 Mbps Yes — 100 Mbps Yes — 100 Mbps Yes Protocols  Protocols  Protocols (Ethernet)  • TCP/IP Yes Integrated Functions Monitoring functions  Monitoring functions  • Veremperature monitoring Yes • Status LEDs 1x power, 3x user • Fan • Monitoring function via network Optional  EMC  Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency radiation • 10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-3; 3 V/m, 2 GHz to	Drives	
Type of memory  Main memory  Al GB RAM  Capacity of main memory, max.  4 Gbyte  Hardware configuration  Slots  Number of PCI slots  Number of industrial Ethernet interfaces  Number of industrial Ethernet interfaces  USB port  Connection for keyboard/mouse  USB / USB  USB / USB  Video interfaces  Graphics interface  Industrial Ethernet interface  Industrial Ethernet interface  Industrial Ethernet interface  Industrial Ethernet interface  - 100 Mbps  Yes  Protocols  Protocols (Ethernet)  TCP/IP  Yes  Integrated Functions  Monitoring functions  Monitoring function via network  Pan  Monitoring function via network  Optional  EMC  Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high-frequency relation	SSD	Yes; 32 / 64 / 128 GB
Main memory Capacity of main memory, max. 4 Gbyte  Hardware configuration  Siots  Number of PCI slots  Number of industrial Ethernet interfaces USB port Connection for keyboard/mouse USB / USB 3.0 / 4x USB 3.0  Connection for keyboard/mouse USB / USB / USB Video interfaces  Graphics interface  Industrial Ethernet Industrial Ethernet interface  Industrial Ethernet	Memory	
Capacity of main memory, max.  Hardware configuration  Slots  Number of PCI slots  Number of PCI slots  Number of industrial Ethernet interfaces  USB port  Connection for keyboard/mouse  Video interfaces  Graphics interface  Industrial Ethernet  Industrial Ethernet interface  Industrial Ethernet  Industrial Ethernet interface  Yes  - 100 Mbps  - 100 Mbps  Yes  - 1000 Mbps  Yes  Protocols  Protocols  Protocols (Ethernet)  TCP/IP  Yes  Integrated Functions  Monitoring functions  Industrial Ethernet monitoring  Yes  Status LEDs  Status LEDs  Monitoring function via network  Protocols  Fan  Mo  Monitoring function via network  Protocols  Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields	Type of memory	DDR4 onboard
Hardware configuration  Slots  Number of PCI slots  0  Interfaces  Number of industrial Ethernet interfaces  USB port  2x USB 3.0 / 4x USB 3.0  Connection for keyboard/mouse  USB / USB  Video interfaces  • Graphics interface  industrial Ethernet  • Industrial Ethernet interface  - 1x DisplayPort  Industrial Ethernet interface  - 1x DisplayPort  Industrial Ethernet  • Industrial Ethernet interface  - 100 Mbps  - 100 Mbps  - 1000 Mbps  Yes  Protocols  Protocols (Ethernet)  • TCP/IP  Yes  Integrated Functions  Monitoring functions  • Temperature monitoring  • Ves  • Status LEDs  • No  • Monitoring function via network  Procolatics  Interference immunity against discharge of static electricity  • Interference immunity against high-frequency electromagnetic fields  • Interference immunity against high-frequency rediction  10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to	Main memory	2 / 4 GB RAM
Siots  Number of PCI slots  Number of industrial Ethernet interfaces  USB yort  Connection for keyboard/mouse  USB / USB  Video interfaces  Graphics interface  Industrial Ethernet  Industrial Ethernet interface  2x / 3x Ethernet (RJ45)  - 100 Mbps  Yes  - 1000 Mbps  Yes  Protocols  Protocols (Ethernet)  TCP/IP  Yes  Integrated Functions  Monitoring functions  I x power, 3x user  No  No  Nonitoring function via network  Fan  No  No  Optional  EMC  Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high-frequency radiation  10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to	Capacity of main memory, max.	4 Gbyte
Number of PCI slots  Number of industrial Ethernet interfaces  Number of industrial Ethernet interfaces  3; Ethernet (2x RJ45, optional 3x RJ45)  USB port  2x USB 3.0 / 4x USB 3.0  Connection for keyboard/mouse  USB / USB  Video interfaces  • Graphics interface  1x DisplayPort  Industrial Ethernet interface  - 100 Mbps  Yes  - 100 Mbps  Yes  Protocols  Protocols  Protocols (Ethernet)  • TCP/IP  Yes  Integrated Functions  Monitoring functions  • Temperature monitoring  Yes  • Status LEDs  A yower, 3x user  • Fan  No  Optional  EMC  Interference immunity against discharge of static electricity  • Interference immunity against high-frequency electromagnetic fields  • Interference immunity against high-frequency radiation  • 10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to	Hardware configuration	
Number of industrial Ethernet interfaces   3; Ethernet (2x RJ45, optional 3x RJ45)	Slots	
Number of industrial Ethernet interfaces  USB port  2x USB 3.0 / 4x USB 3.0  Connection for keyboard/mouse  USB / USB  Video interfaces  • Graphics interface  Industrial Ethernet  • Industrial Ethernet interface  — 100 Mbps — 1000 Mbps — Yes  Protocols  Protocols (Ethernet)  • TCP/IP  Integrated Functions  Monitoring functions  • Temperature monitoring • Ves  • Status LEDs • Monitoring function via network  • Fan • Monitoring function via network  • Interference immunity against discharge of static electricity  • Interference immunity against high-frequency electromagnetic fields  • Interference immunity against high-frequency radiation  10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to	Number of PCI slots	0
USB port  Connection for keyboard/mouse  Video interfaces  • Graphics interface  Industrial Ethernet  • Industrial Ethernet interface  — 100 Mbps — 100 Mbps — Yes  Protocols  Protocols  Protocols (Ethernet)  • TCP/IP  Integrated Functions  Monitoring functions  • Tamperature monitoring • Status LEDs • Status LEDs • Monitoring function via network  • Interference immunity against discharge of static electricity • Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency radiation  10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to	Interfaces	
Connection for keyboard/mouse  Video interfaces  Graphics interface  Industrial Ethernet  Industrial Ethernet interface  Industrial Ethernet  Industrial Ethernet interface  Industrial Ethernet  Industrial	Number of industrial Ethernet interfaces	3; Ethernet (2x RJ45, optional 3x RJ45)
Video interfaces  Graphics interface  Ix DisplayPort  Industrial Ethernet  Industrial Ethernet interface  Industrial Ethernet	USB port	2x USB 3.0 / 4x USB 3.0
Graphics interface Industrial Ethernet  Industrial Ethernet interface Industrial Ethernet (RJ45) Interferent Industrial Ethernet (RJ45) Interference interface Industrial Ethernet (RJ45) Interference interface In	Connection for keyboard/mouse	USB / USB
Industrial Ethernet  Industrial Ethernet interface  Interface Interface interface  Interface interface interface interface interface  Interface interfa	Video interfaces	
Industrial Ethernet interface  - 100 Mbps  - 1000 Mbps  Yes  - 1000 Mbps  Yes  Protocols  Protocols (Ethernet)  • TCP/IP  Yes  Integrated Functions  Monitoring functions  • Temperature monitoring  • Watchdog  • Status LEDs  • Status LEDs  • Fan  No  • Monitoring function via network  • Interference immunity against discharge of static electricity  • Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  • Interference immunity against high-frequency radiation  Interference immunity against high-frequency radiation  10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to	Graphics interface	1x DisplayPort
100 Mbps	Industrial Ethernet	
Protocols  Protocols (Ethernet)  • TCP/IP  • TCP/IP  Yes  Integrated Functions  Monitoring functions  • Temperature monitoring  • Watchdog  • Status LEDs  • Status LEDs  • Monitoring function via network  • Fan  • Monitoring function via network   EMC  Interference immunity against discharge of static electricity  • Interference immunity against high-frequency electromagnetic fields  • Interference immunity against high-frequency radiation  • Interference immunity against high frequency radiation  10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to	Industrial Ethernet interface	2x / 3x Ethernet (RJ45)
Protocols  Protocols (Ethernet)  TCP/IP  Yes  Integrated Functions  Monitoring functions  Temperature monitoring Watchdog Status LEDs Status LEDs Fan Monitoring function via network  Pran Monitoring function via network  EMC  Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency radiation  Interference immunity against high frequency radiation  Yes  1x power, 3x user No Optional  EMC  Interference immunity against discharge of static electricity Fig. Value of the valu	·	Yes
Protocols (Ethernet)  TCP/IP  Yes  Integrated Functions  Monitoring functions  Temperature monitoring Watchdog Status LEDs Status LEDs Tan Monitoring function via network  Fan Mo Optional  EMC  Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency electromagnetic fields  Interference immunity against high-frequency radiation		Yes
TCP/IP  Yes  Integrated Functions  Monitoring functions  Temperature monitoring  Watchdog  Status LEDs  Status LEDs  Monitoring function via network  Fan  Mo  Monitoring function via network  Optional  EMC  Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high-frequency radiation  10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to	Protocols	
Integrated Functions  Monitoring functions  Temperature monitoring Watchdog Status LEDs Status LEDs Fan Monitoring function via network  Fan Monitoring function via network  EMC  Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency radiation  Interference immunity against high frequency radiation		
Monitoring functions  Temperature monitoring Watchdog Status LEDs Status LEDs Fan Monitoring function via network  Monitoring function via network  EMC  Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency radiation  Interference immunity against high-frequency radiation  Interference immunity against high-frequency radiation  Interference immunity against high frequency radiation		Yes
<ul> <li>Temperature monitoring</li> <li>Watchdog</li> <li>Status LEDs</li> <li>Fan</li> <li>Monitoring function via network</li> <li>Monitoring function via network</li> <li>Optional</li> <li>EMC</li> <li>Interference immunity against discharge of static electricity         <ul> <li>Interference immunity against discharge of static electricity</li> <li>Ectricity</li> <li>Interference immunity against high-frequency electromagnetic fields</li> <li>Interference immunity against high-frequency radiation</li> </ul> </li> <li>Interference immunity against high-frequency radiation</li> <li>V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to</li> </ul>		
<ul> <li>Watchdog</li> <li>Status LEDs</li> <li>Fan</li> <li>Monitoring function via network</li> <li>Optional</li> <li>EMC</li> <li>Interference immunity against discharge of static electricity         <ul> <li>Interference immunity against discharge of static electricity</li> <li>Electricity</li> <li>Interference immunity against high-frequency electromagnetic fields</li> <li>Interference immunity against high-frequency radiation</li> </ul> </li> <li>Interference immunity against high-frequency radiation</li> <li>V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to</li> </ul>	•	
<ul> <li>Status LEDs</li> <li>Fan</li> <li>Monitoring function via network</li> <li>Optional</li> <li>EMC</li> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against high-frequency electromagnetic fields</li> <li>Interference immunity against high frequency radiation</li> </ul>		
<ul> <li>Fan</li> <li>Monitoring function via network</li> <li>Optional</li> <li>EMC</li> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against high-frequency electromagnetic fields</li> <li>Interference immunity against high frequency radiation</li> </ul>		
Monitoring function via network      Optional      Interference immunity against discharge of static electricity     Interference immunity against discharge of static electricity      Interference immunity against discharge of static electricity      Interference immunity against high-frequency electromagnetic fields     Interference immunity against high frequency radiation      Interference immunity against high frequency radiation  Interference immunity against high frequency radiation  Interference immunity against high frequency radiation  Interference immunity against high frequency radiation  Interference immunity against high frequency radiation  Interference immunity against high frequency radiation  Interference immunity against high frequency radiation  Interference immunity against high frequency radiation  Interference immunity against high frequency radiation  Interference immunity against high frequency radiation  Interference immunity against high frequency radiation  Interference immunity against high frequency radiation		
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity  ### 46 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  #### 10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to		
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity  Interference immunity against high-frequency electromagnetic fields  Interference immunity against high frequency radiation  Interference immunity against discharge of static electricity  ### 46 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2  Interference immunity against high-frequency radiation  Interference immunity against discharge of static electricity  ### 46 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2  Interference immunity against high-frequency radiation  Interference immunity against high-frequency radiation		Optional
<ul> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against high-frequency electromagnetic fields</li> <li>Interference immunity against high frequency radiation</li> </ul>		
electricity 61000-4-2 Interference immunity against high-frequency electromagnetic fields • Interference immunity against high frequency radiation 10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to		
• Interference immunity against high frequency radiation 10 V/m, 80 MHz to 2 GHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 GHz to		
	Interference immunity against high-frequency electromagnetic fields	
	Interference immunity against high frequency radiation	

	acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
Interference immunity on supply cables	±2 kV (according to IEC 61000-4-4; burst); ±0,5 kV (according to IEC 61000-4-5; surge pulse/line to line); ±1 kV (according to IEC 61000-4-5; surge pulse/line to ground)
<ul> <li>Interference immunity on signal cables &gt;30m</li> </ul>	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
• Interference immunity on signal cables < 30m	$\pm$ 1 kV acc. to IEC 61000-4-4; burst; length < 3 m; $\pm$ 2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
• Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
• Interference emission via line/AC current cables	EN 61000-6-4:2007 +A1:2011 (industrial environments), EN 61000-6-3:2007 +A1:2011 (residential environments), CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP40
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
Dust protection	Protection against foreign bodies > 1 mm
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	70 °C
Relative humidity	
Relative humidity	5 85 % at 30 °C, no condensation
Vibrations	
<ul> <li>Vibration resistance during operation acc. to IEC 60068- 2-6</li> </ul>	Tested according to IEC 6068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9,8 m/s²
Shock testing	
Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	Windows 10 Enterprise 2016 LTSB or 2019 LTSC 64-bit, MUI
without operating system	Yes; Optional
pre-installed operating system	
Windows 10 Enterprise	Yes; Windows 10 Enterprise 2016 LTSB or 2019 LTSC 64-bit, MUI
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