## SIEMENS

SIMATIC IPC427D (Microbox PC), HD graphic onboard, 2x10/100/1000 Mbits Ethemet RJ45, 4xUSB V3.0 (high current), 2x10/100/1000 Mbits Ethemet RJ45, 4xUSB V3.0 (high current), RS-232; 1x PCIE; WIN Embedded Standard 7 SP1, English, 64-bit; Rspeceable without drive; 320 GB HDD SATA; without SIMATIC softwareInstallation type/mountingDIN rail, wall mounting, portrait mounting Box PC, built-in unitOutringDIN rail, wall mounting, portrait mountingDesign24 V DCYpe of supply voltage24 V DCProcessorCeleron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE (2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHZ, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 <	Data sheet	6AG4140-4BD15-0KA0
Mounting       DIN rail, wall mounting, portrait mounting         Design       Box PC, built-in unit         Supply voltage       24 V DC         Processor       Processor         Processor type       Celeron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE (2C/4T, 1.60 GHz, 3 MB Cache); Core i3-3217UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache, iAMT)         Graphic       Intel HD Graphics, Intel HD Graphics 4000         Drives       Hard disk         4 Jar disk       2.5" SATA ≥ 320 GB         SSD       Yes; 1x 240 GB SSD, 1x 480 GB SSD         Memory       DDR3 SO-DIMM         Type of memory       DDR3 SO-DIMM         Main memory       2 / 4 / 8 GB; ECC optional         Capacity of main memory, max.       8 Gbyte         Data areas and their retentivity       S12 kbyte; 128 KB can be stored in the buffer time; optional         max.       S12 kbyte; 128 KB can be stored in the buffer time; optional         Markare configuration       Slots         • free slots       2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer         • Number of PCl slots       2; Optional		2x10/100/1000 Mbit/s Ethernet RJ45, 4xUSB V3.0 (high current), PCIe (optional), 24 V DC power supply Core I3-3217UE; 2x Gbit Ethernet (IE/PN); PROFIBUS DP 12; DIN rail mounting; 8 GB; 1x RS-232; 1x PCIE; WIN Embedded Standard 7 SP1, English, 64-bit; Replaceable without drive; 320 GB HDD SATA; without SIMATIC
Design     Box PC, built-in unit       Supply voltage     Z4 V DC       Processor     Processor type       Processor type     Celeron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE (2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache, iAMT)       Graphic     Graphics controller       Intel HD Graphics, Intel HD Graphics 4000       Drives       Hard disk     2.5" SATA ≥ 320 GB       SSD     Yes; 1x 240 GB SSD, 1x 480 GB SSD       Memory     DDR3 SO-DIMM       Main memory     2.1/4 / 8 GB; ECC optional       Capacity of main memory, max.     8 Gbyte       Data areas and their retentivity       Retentive data area (incl. timers, counters, flags), max.     512 kbyte; 128 KB can be stored in the buffer time; optional       Nark     2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer       • Number of PCl slots     2: Optional	Installation type/mounting	
Supply voltage       24 V DC         Processor       Eleron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE (2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); AMT)         Graphic       Intel HD Graphics, Intel HD Graphics 4000         Drives       Intel HD Graphics, Intel HD Graphics 4000         Processor       Ves; 1x 240 GB SSD, 1x 480 GB SSD         Memory       DDR3 SO-DIMM         Type of memory       DDR3 SO-DIMM         Main memory       2 / 4 / 8 GB; ECC optional         Capacity of main memory, max.       8 Gbyte         Data areas and their retentivity       512 kbyte; 128 KB can be stored in the buffer time; optional         Marx       2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer         • Number of PCl slots       2; Optional	Mounting	DIN rail, wall mounting, portrait mounting
Type of supply voltage       24 V DC         Processor       Processor type         Celeron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core I3-3217UE (2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHZ, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHZ, 4 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHZ, 4 MB Cache); Core i7-3517UE (2C/4T, 1.80 GHZ, 4 GHZ,	Design	Box PC, built-in unit
Processor         Processor type       Celeron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE (2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache, iAMT)         Graphic       Intel HD Graphics, Intel HD Graphics 4000         Drives       Processor         Hard disk       2.5" SATA ≥ 320 GB         SSD       Yes; 1x 240 GB SSD, 1x 480 GB SSD         Memory       DDR3 SO-DIMM         Type of memory       DDR3 SO-DIMM         Gapacity of main memory, max.       8 Gbyte         Data areas and their retentivity       \$12 kbyte; 128 KB can be stored in the buffer time; optional         Marx.       \$12 kbyte; 128 KB can be stored in the buffer time; optional         Hardware configuration       \$2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer         • Number of PCl slots       2x Optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer	Supply voltage	
Processor type       Celeron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE (2C/4T, 1.70 (2.80) GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache, iAMT)         Graphic       Intel HD Graphics, Intel HD Graphics 4000         Drives       2.5" SATA ≥ 320 GB         Hard disk       2.5" SATA ≥ 320 GB         SSD       Yes; 1x 240 GB SSD, 1x 480 GB SSD         Memory       DDR3 SO-DIMM         Type of memory       DDR3 SO-DIMM         Capacity of main memory, max.       8 Gbyte         Data areas and their retentivity       512 kbyte; 128 KB can be stored in the buffer time; optional         Max.       S12 kbyte; 128 KB can be stored in the buffer time; optional         Pardware configuration       2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer         • Number of PCl slots       2; Optional	Type of supply voltage	24 V DC
(2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache, iAMT)         Graphic         Graphics controller         Intel HD Graphics, Intel HD Graphics 4000         Drives         Hard disk       2.5" SATA ≥ 320 GB         SSD       Yes; 1x 240 GB SSD, 1x 480 GB SSD         Memory       DDR3 SO-DIMM         Type of memory       DDR3 SO-DIMM         Gapacity of main memory, max.       8 Gbyte         Data areas and their retentivity       512 kbyte; 128 KB can be stored in the buffer time; optional         Max.       S12 kbyte; 128 KB can be stored in the buffer time; optional         Hardware configuration       2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer         • Number of PCl slots       2; Optional	Processor	
Graphics controller       Intel HD Graphics, Intel HD Graphics 4000         Drives	Processor type	(2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70
Drives       Hard disk     2.5" SATA ≥ 320 GB       SSD     Yes; 1x 240 GB SSD, 1x 480 GB SSD       Memory     DDR3 SO-DIMM       Type of memory     DDR3 SO-DIMM       Main memory     2 / 4 / 8 GB; ECC optional       Capacity of main memory, max.     8 Gbyte       Data areas and their retentivity       Retentive data area (incl. timers, counters, flags), max.     512 kbyte; 128 KB can be stored in the buffer time; optional       Hardware configuration       Slots     2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer       • Number of PCl slots     2; Optional	Graphic	
Hard disk       2.5" SATA ≥ 320 GB         SSD       Yes; 1x 240 GB SSD, 1x 480 GB SSD         Memory       DDR3 SO-DIMM         Main memory       2 / 4 / 8 GB; ECC optional         Capacity of main memory, max.       8 Gbyte         Data areas and their retentivity       S12 kbyte; 128 KB can be stored in the buffer time; optional         Max.       512 kbyte; 128 KB can be stored in the buffer time; optional         Hardware configuration       Slots         • free slots       2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer         • Number of PCl slots       2; Optional	Graphics controller	Intel HD Graphics, Intel HD Graphics 4000
SSD       Yes; 1x 240 GB SSD, 1x 480 GB SSD         Memory       DDR3 SO-DIMM         Type of memory       DDR3 SO-DIMM         Main memory       2 / 4 / 8 GB; ECC optional         Capacity of main memory, max.       8 Gbyte         Data areas and their retentivity       8 Gbyte         Retentive data area (incl. timers, counters, flags), max.       512 kbyte; 128 KB can be stored in the buffer time; optional         Hardware configuration       Slots         • free slots       2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer         • Number of PCl slots       2; Optional	Drives	
Memory       DDR3 SO-DIMM         Main memory       2 / 4 / 8 GB; ECC optional         Capacity of main memory, max.       8 Gbyte         Data areas and their retentivity         Retentive data area (incl. timers, counters, flags), max.       512 kbyte; 128 KB can be stored in the buffer time; optional         Hardware configuration         Slots       2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer         • Number of PCl slots       2; Optional	Hard disk	2.5" SATA ≥ 320 GB
Type of memory       DDR3 SO-DIMM         Main memory       2 / 4 / 8 GB; ECC optional         Capacity of main memory, max.       8 Gbyte         Data areas and their retentivity       8 Gbyte         Retentive data area (incl. timers, counters, flags), max.       512 kbyte; 128 KB can be stored in the buffer time; optional         Hardware configuration       512 kbyte; 128 KB can be stored in the buffer time; optional         Slots       • free slots       2x PCIe; optional: 1x PCIe (x4); 2x PCIe (x1, x4), with card retainer         • Number of PCI slots       2; Optional	SSD	Yes; 1x 240 GB SSD, 1x 480 GB SSD
Main memory       2 / 4 / 8 GB; ECC optional         Capacity of main memory, max.       8 Gbyte         Data areas and their retentivity         Retentive data area (incl. timers, counters, flags), max.       512 kbyte; 128 KB can be stored in the buffer time; optional         Hardware configuration         Slots         • free slots       2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer         • Number of PCl slots       2; Optional	Memory	
Capacity of main memory, max.       8 Gbyte         Data areas and their retentivity       8 Gbyte         Retentive data area (incl. timers, counters, flags), max.       512 kbyte; 128 KB can be stored in the buffer time; optional         Hardware configuration       512 kbyte; 128 KB can be stored in the buffer time; optional         Slots       2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer         • Number of PCl slots       2; Optional	Type of memory	DDR3 SO-DIMM
Data areas and their retentivity         Retentive data area (incl. timers, counters, flags), max.       512 kbyte; 128 KB can be stored in the buffer time; optional         Hardware configuration       512 kbyte; 128 KB can be stored in the buffer time; optional         Slots       • free slots         • free slots       2x PCIe; optional: 1x PCIe (x4); 2x PCIe (x1, x4), with card retainer         • Number of PCI slots       2; Optional	Main memory	2 / 4 / 8 GB; ECC optional
Retentive data area (incl. timers, counters, flags), max.       512 kbyte; 128 KB can be stored in the buffer time; optional         Hardware configuration       512 kbyte; 128 KB can be stored in the buffer time; optional         Slots       2x PCIe; optional: 1x PCIe (x4); 2x PCIe (x1, x4), with card retainer         • Number of PCI slots       2; Optional	Capacity of main memory, max.	8 Gbyte
max. Hardware configuration Slots • free slots • Number of PCI slots 2; Optional: 1x PCIe (x4); 2x PCIe (x1, x4), with card retainer 2; Optional	Data areas and their retentivity	
Slots       • free slots       2x PCle; optional: 1x PCle (x4); 2x PCle (x1, x4), with card retainer         • Number of PCl slots       2; Optional		512 kbyte; 128 KB can be stored in the buffer time; optional
<ul> <li>free slots</li> <li>Number of PCI slots</li> <li>2x PCIe; optional: 1x PCIe (x4); 2x PCIe (x1, x4), with card retainer</li> <li>2; Optional</li> </ul>	Hardware configuration	
Number of PCI slots     retainer     2; Optional		
	● free slots	
Number of compact flash slots     2; CFast	Number of PCI slots	2; Optional
	<ul> <li>Number of compact flash slots</li> </ul>	2; CFast

PROFINIO/MPI	Optionally and instated many 40 Mines are at the with OD
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbps, compatible with CP 5611
Number of PROFINET interfaces	1; 3 ports (incl. switch)
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232
Video interfaces	
<ul> <li>Graphics interface</li> </ul>	1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)
Industrial Ethernet	
<ul> <li>Industrial Ethernet interface</li> </ul>	Onboard, 2x 10/100/1 000 Mbit, RJ45, no plug-in card necessary
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
<ul> <li>Temperature monitoring</li> </ul>	Yes
Watchdog	Yes
Status LEDs	Yes
	Na
● Fan	No
<ul><li>Fan</li><li>Monitoring function via network</li></ul>	Optional
Monitoring function via network	Optional
Monitoring function via network EMC	Optional
Monitoring function via network     EMC     Interference immunity against discharge of static electri     Interference immunity against discharge of	Optional icity ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Monitoring function via network     EMC     Interference immunity against discharge of static electri     Interference immunity against discharge of     static electricity	Optional icity ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Monitoring function via network      EMC Interference immunity against discharge of static electri     Interference immunity against discharge of     static electricity Interference immunity against high-frequency electroma     Interference immunity against high frequency	Optional icity ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2 agnetic fields 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;
Monitoring function via network     EMC     Interference immunity against discharge of static electri     Interference immunity against discharge of     static electricity     Interference immunity against high-frequency electroma     Interference immunity against high frequency     radiation	Optional icity ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2 agnetic fields 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;
Monitoring function via network     EMC     Interference immunity against discharge of static electri         Interference immunity against discharge of         static electricity     Interference immunity against high-frequency electroma         Interference immunity against high frequency         radiation     Interference immunity to cable-borne interference	Optional         icity         ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2;         agnetic fields         10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3;         10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3;         10 V/m for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-3;         10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6         ±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5,
<ul> <li>Monitoring function via network</li> <li>EMC</li> <li>Interference immunity against discharge of static electric</li> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against high-frequency electromation</li> <li>Interference immunity against high frequency radiation</li> <li>Interference immunity to cable-borne interference</li> <li>Interference immunity on supply cables</li> </ul>	Optional         icity         ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2;         agnetic fields         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         ±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
<ul> <li>Monitoring function via network</li> <li>EMC</li> <li>Interference immunity against discharge of static electric</li> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against high-frequency electromation</li> <li>Interference immunity against high frequency radiation</li> <li>Interference immunity to cable-borne interference</li> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> </ul>	Optional         icity         ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2         agnetic fields         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         ±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
<ul> <li>Monitoring function via network</li> <li>EMC</li> <li>Interference immunity against discharge of static electric</li> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against high-frequency electromation</li> <li>Interference immunity against high frequency radiation</li> <li>Interference immunity to cable-borne interference</li> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul>	Optional         icity         ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2         agnetic fields         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         ±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
<ul> <li>Monitoring function via network</li> <li>EMC</li> <li>Interference immunity against discharge of static electric</li> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against high-frequency electromate</li> <li>Interference immunity against high frequency radiation</li> <li>Interference immunity to cable-borne interference</li> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> </ul>	Optional         icity         ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2;         agnetic fields         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 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6         ±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>Monitoring function via network</li> <li>EMC</li> <li>Interference immunity against discharge of static electric</li> <li>Interference immunity against discharge of static electricity</li> <li>Interference immunity against high-frequency electromates</li> <li>Interference immunity against high frequency radiation</li> <li>Interference immunity to cable-borne interference</li> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity on signal cables &lt; 30m</li> <li>Interference immunity against voltage surge</li> <li>asymmetric interference</li> </ul>	Optionalicity $\pm 6 \text{ kV contact discharge acc. to IEC 61000-4-2; \pm 8 \text{ kV air}discharge acc. to IEC 61000-4-2agnetic fields10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3;10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6\pm 2 \text{ kV acc. to IEC 61000-4-4, burst; \pm 1 \text{ kV acc. to IEC 61000-4-5, surge symmetric; } \pm 2 \text{ kV acc. to IEC 61000-4-5, surge asymmetric } \pm 2 \text{ kV acc. to IEC 61000-4-4; burst; length > 30 m}\pm 1 \text{ kV acc. to IEC 61000-4-4; burst; length < 3 m; \pm 2 \text{ kV acc. to IEC 61000-4-4; burst; length > 3 m}\pm 2 \text{ kV acc. to IEC 61000-4-5, surge asymmetric } 2 \text{ kV acc. to IEC 61000-4-4; burst; length > 3 m}$
<ul> <li>Monitoring function via network</li> <li>EMC</li> <li>Interference immunity against discharge of static electric electricity</li> <li>Interference immunity against high-frequency electromates electricity</li> <li>Interference immunity against high frequency radiation</li> <li>Interference immunity to cable-borne interference</li> <li>Interference immunity on supply cables</li> <li>Interference immunity on signal cables &gt;30m</li> <li>Interference immunity against voltage surge</li> <li>asymmetric interference</li> <li>symmetric interference</li> </ul>	Optionalicity $\pm 6 \text{ kV contact discharge acc. to IEC 61000-4-2; \pm 8 \text{ kV air}discharge acc. to IEC 61000-4-2agnetic fields10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3;10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6\pm 2 \text{ kV acc. to IEC 61000-4-4, burst; \pm 1 \text{ kV acc. to IEC 61000-4-5, surge symmetric; } \pm 2 \text{ kV acc. to IEC 61000-4-5, surge asymmetric } \pm 2 \text{ kV acc. to IEC 61000-4-4; burst; length > 30 m}\pm 1 \text{ kV acc. to IEC 61000-4-4; burst; length < 3 m; \pm 2 \text{ kV acc. to IEC 61000-4-4; burst; length > 3 m}\pm 2 \text{ kV acc. to IEC 61000-4-5, surge asymmetric } 2 \text{ kV acc. to IEC 61000-4-4; burst; length > 3 m}$

• Interference emission via line/AC current cables

Degree and class of protection IP (at the front)	IP20
IP (rear)	IP20
IF (leal)	IF20
Standards, approvals, certificates	
CE mark	Yes; CE marking / EC Declaration of Conformity
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	CE, EN 55022A, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas	
ATEX Zone 2	Yes; Optional
• IECEx Zone 2	Yes; Optional
• cULus Class I Zone 2, Division 2	Yes
Marine approval	
Germanischer Lloyd (GL)	Yes
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	Yes
• Bureau Veritas (BV)	Yes
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
● Nippon Kaiji Kyokai (Class NK)	Yes
Ambient conditions	
Ambient temperature during operation	
<ul> <li>Ambient temperature during operation</li> </ul>	0 °C up to 55 °C
Ambient temperature during storage/transportation	
● min.	-40 °C
● max.	70 °C
Relative humidity	
<ul> <li>Relative humidity</li> </ul>	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 $^{\circ}$ C (no condensation), Storage: 5% to 95% at 25 $^{\circ}$ C (no condensation)
Vibrations	
<ul> <li>Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>	Tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s <sup>2</sup> (1 g)
Shock testing	
<ul> <li>Shock load during operation</li> </ul>	Tested to DIN IEC 60068-2-29: 50 m/s <sup>2</sup> (5 g), 30 ms, 100 shocks

Operating systems	
Operating system	Windows 7 Ultimate (Multi-Language) 32-bit / 64-bit, Windows
	Embedded Standard 7 E/P 32-bit / 64-bit
pre-installed operating system	Yes
without operating system	Yes; Optional
pre-installed operating system	
• Windows 7	Yes; Ultimate 32 bit or 64 bit
Software	
SIMATIC Software	Optionally with pre-installed software bundle SIMATIC WinCC RT
	Advanced / WinAC RTX
Dimensions	
Width	262 mm
Height	139.7 mm
Depth	50.5 mm

last modified:

09/13/2019