SIEMENS

Data sheet

6AG4132-2FA20-0AX3

SIMATIC IPC827D (Box PC) HD graphic onboard, 2x Gigabit Ethernet (IE/PN) 4xUSB V3.0; 1x serial (COM 1); RAID controller onboard; Watchdog, temp./fan monitoring Core I3-4330TE (2C/4T, 2.4 GHz, 4 MB cache, VT-X); PROFINET (IRT, 3 ports, CP 1616-compatible); 2 MB buffered SRAM 500 GB HDD SATA; 4 GB DDR3 1600 DIMM; 1x PCIE (X16); 1x PCIE (X4); 3x PCI without expansion (HW) Windows 7 Ultimate 32 bit SP1, MUI (de, en, fr, es, it) without expansion (software) AC 110/230V industrial power supply unit with NAMUR; Power supply cable USA

Mounting Design Box PC, built-in unit Supply voltage Type of supply voltage Type of supply voltage Type of supply voltage 100/240 V AC (autorange); 24 V DC Line frequency Rated value 50 Hz Yes Rated value 50 Hz Yes Mains buffering Mains buffering Mains buffering Mains voltage failure stored energy time 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, MT) Intel DH82C226 PCH Craphic Graphics controller Graphics controller Graphics controller Drives Optical drives Dybert Mains Work (SSD) ≥ 240 GB; all hard disk drives within the enclosure are ubration-damped, FRAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive baye in removable drive bayes and their refortivity Retentive data area (incl. timers, counters, flags), max Hardware configuration Slots • free slots • Number of PCI slots • Number of PCI slots • Number of PCI slots • Such Services PROFIBUS/MPI Number of PCR-PINET interfaces Services in the such such as a service of the such as	Installation type/mounting	
Supply Voltage 100/240 V AC (autorange); 24 V DC Line frequency • Rated value 50 Hz Yes • Rated value 50 Hz Yes • Mains buffering • Mains/voltage failure stored energy time 20 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, MT) Chipset Intel DH82C226 PCH Craphic Organics controller (Celeron) Drives Optical drives DVD±R±RW combi-drive, optional Say OB; 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 byte in removab	Mounting	Wall mounting, portrait mounting
Type of supply voltage	Design	Box PC, built-in unit
Line frequency	Supply voltage	
Rated value 50 Hz Rated value 60 H	Type of supply voltage	100/240 V AC (autorange); 24 V DC
Rated value 60 Hz	Line frequency	
Mains buffering • Mains/voltage failure stored energy time 20 ms 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 Optical drives 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 Type of memory DDR3-1600 DIMM 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 3 3x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer • Number of PCI slots • Number of PCI slots 2 2 • Number of PCI slots 2 2x 2x RJ45 (independent) Number of PGPCINET interfaces	 Rated value 50 Hz 	Yes
◆ Mains/voltage failure stored energy time 20 ms Processor Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); AVT) 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 Memory Type of memory DDR3-1600 DIMM Main memory 2 1 4 / 8 / 16 GB; ECC optional Capacity of main memory, max. Def Gyte 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 3 3x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer • Number of PCI slots • Number of PCI slots 2 2 • Number of PROFINET interfaces 2; 2x RJ45 (independent) Number of PROFINET interfaces 3; Opt	Rated value 60 Hz	Yes
Processor Celeron G1820TE (2C/ZT, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/ZT, 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 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 DPR3-1600 DIMM Memory DPR3-1600 DIMM Main memory 2 / 4 / 8 / 16 GB; ECC optional Capacity of main memory, max. 16 Gbyte Data areas and their retentivity 2 Mbyte; 128 KB can be stored in the buffer time; optional Hardware configuration 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer Slots 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer Number of PCI slots 2 Interfaces 2 x RJ45 (independent) Number of PROFINET interfaces 3; Optional </td <td>Mains buffering</td> <td></td>	Mains buffering	
Processor type	 Mains/voltage failure stored energy time 	20 ms
(2C/dT, 2.4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT) Chipset	Processor	
Graphic Graphics controller Intel HD graphics controller (Celeron) 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 Momory Type of memory Main memory 2 / 4 / 8 / 16 GB; ECC optional Capacity of main memory, max. 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 • Number of PCI slots 3 • Number of PCI slots 2 Interfaces 2 PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 Number of PROFINET interfaces 3; Optional USB port 4x USB 3.0 Connection for keyboard/mouse 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface 1x COM1 (RS 232), o	Processor type	(2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3)
Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)	Chipset	Intel DH82C226 PCH
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 Type of memory DDR3-1600 DIMM 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. 4 Mbyte; 128 KB can be stored in the buffer time; optional Hardware configuration Slots • free slots • free slots • Number of PCI slots • 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 9 USB / USB serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface optional LPT1	Graphic	
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 byte in removable drive bay SSD Yes; ≥ 240 GB optional Memory Type of memory DDR3-1600 DIMM 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. 16 Gbyte Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. 18 GBY to the buffer time; optional Hardware configuration Slots 10 free slots Number of PCI slots Number of PCI slots Number of PCI slots Number of PCI slots 2 (2x RJ45 (independent)) Number of PROFINET interfaces Number of PROFINET interfaces USB / USB serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) optional LPT1	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 Type of memory DDR3-1600 DIMM 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 • Number of PCI slots • Number of PCI slots • Number of PCI slots 2 Interfaces PROFIBUS/MPI Number of industrial Ethernet interfaces Number of PROFINET interfaces 3; Optional USB port Connection for keyboard/mouse srial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) optional LPT1	Drives	
≥ 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 Type of memory Main memory Capacity of main memory, max. 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 • Number of PCI slots • Number of PCI slots PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port Connection for keyboard/mouse serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) optional LPT1	Optical drives	DVD±R±RW combi-drive, optional
Type of memory Type of memory Main memory Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Parallel interface USB port Aus 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 4 Mbyte; 128 KB can be stored in the buffer time; optional Aus PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 2 y x RJ45 (independent) Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port 4x USB 3.0 Connection for keyboard/mouse Serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface Optional LPT1	Hard disk	≥ 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
Type of memory Main memory Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Paraware configuration Slots • free slots • Number of PCI slots • Number of PCI slots PROFIBUS/MPI Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port Connection for keyboard/mouse Serial interface DDR3-1600 DIMM 2 / 4 / 8 / 16 GB; ECC optional 16 Gbyte 2 / Mbyte; 128 KB can be stored in the buffer time; optional 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 3 y Dptionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 17 x RJ45 (independent) Number of PROFINET interfaces USB / USB Serial interface 18 x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface Optional LPT1	SSD	Yes; ≥ 240 GB optional
Main memory Capacity of main memory, max. 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 • Number of PCI slots • Number of PCI slots 2 Interfaces PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 Number of PROFINET interfaces Number of PROFINET interfaces USB port Connection for keyboard/mouse serial interface parallel interface profibus / 18 / 16 GB; ECC optional 2 Mbyte; 128 KB can be stored in the buffer time; optional 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 3 y Quitonal (x14) x PCIe (x16); with card retainer 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 4 x USB (x16) x Quitonal (x16) x Q	Memory	
Main memory Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Hardware configuration Slots • free slots • Number of PCI slots • Number of PCI slots • Number of PCI slots • Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port USB port Connection for keyboard/mouse serial interface 2 / 4 / 8 / 16 GB; ECC optional 2 / Mbyte; 128 KB can be stored in the buffer time; optional 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 3 x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer 3 cy PCFIBUS/MPI (x16); with card retainer 4 cy PCFIBUS/MPI (x16); with card retainer 5 cy PCFIBUS/MPI (x16); with card retainer 6 cy PCFIBUS/MPI (x16); with card	Type of memory	DDR3-1600 DIMM
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 • Number of PCI slots • Number of PCI slots 2 Interfaces PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 Number of industrial Ethernet interfaces PROFINET interfaces USB port 4x USB 3.0 Connection for keyboard/mouse serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface optional LPT1		2 / 4 / 8 / 16 GB; ECC optional
Retentive data area (incl. timers, counters, flags), max. Hardware configuration Slots Interfaces PROFIBUS/MPI Number of PROFINET interfaces USB port USB port Connection for keyboard/mouse serial interface Parallel interface 2 Mbyte; 128 KB can be stored in the buffer time; optional 2 Mbyte; 128 KB can be stored in the buffer time; optional 2 Mbyte; 128 KB can be stored in the buffer time; optional 2 Mbyte; 128 KB can be stored in the buffer time; optional 3 x PCI, 1x PCle (x4), 1x PCle (x16); with card retainer 3 cyptionally optionally optional, isolated, max. 12 Mbit/s, compatible with CP 5622 2; 2x RJ45 (independent) 3; Optional 4x USB 3.0 Connection for keyboard/mouse Serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) optional LPT1	Capacity of main memory, max.	16 Gbyte
Hardware configuration Slots • free slots • Number of PCI slots • Number of PCI slots • 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 Connection for keyboard/mouse USB / USB serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface optional LPT1	Data areas and their retentivity	
Slots Slots 3x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer Number of PCI slots 3	Retentive data area (incl. timers, counters, flags), max.	2 Mbyte; 128 KB can be stored in the buffer time; optional
Slots • free slots • Number of PCI slots • Number of PCI slots • 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 USB port 4x USB 3.0 Connection for keyboard/mouse serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface optional LPT1	Hardware configuration	
 Number of PCI slots Number of PCI slots Interfaces PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port 4x USB 3.0 Connection for keyboard/mouse Serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) optional LPT1 		
 Number of PCI slots Number of PCI slots Interfaces PROFIBUS/MPI Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622 Number of industrial Ethernet interfaces Number of PROFINET interfaces USB port 4x USB 3.0 Connection for keyboard/mouse Serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) optional LPT1 		3x PCI, 1x PCIe (x4), 1x PCIe (x16); with card retainer
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 Connection for keyboard/mouse USB / USB serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface optional LPT1	Number of PCI slots	
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 Connection for keyboard/mouse USB / USB serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface optional LPT1		
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Number of industrial Ethernet interfaces 2; 2x RJ45 (independent) Number of PROFINET interfaces 3; Optional USB port 4x USB 3.0 Connection for keyboard/mouse USB / USB serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface optional LPT1		Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622
Number of PROFINET interfaces USB port 4x USB 3.0 Connection for keyboard/mouse USB / USB serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface optional LPT1		
USB port 4x USB 3.0 Connection for keyboard/mouse USB / USB serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface optional LPT1		
Connection for keyboard/mouse USB / USB serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface optional LPT1		
serial interface 1x COM1 (RS 232), optional: 1x COM2 (RS 232) parallel interface optional LPT1		
parallel interface optional LPT1		1x COM1 (RS 232), optional: 1x COM2 (RS 232)
Video interfaces		
	Video interfaces	

Graphics interface	1x DisplayPort and 1x DVI I: 1x V/CA via adapter cable (antional)
Graphics interface Industrial Ethernet	1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)
Industrial Ethernet interface	onboard, 2x 10 / 100 / 1 000 Mbit, RJ45
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
Bus diagnostics	Yes
Integrated Functions	165
Monitoring functions	
	Yes
Temperature monitoringWatchdog	Yes
Status LEDs	Yes
• Fan	Yes
Monitoring function via network	Optional
EMC	Ориона
Interference immunity against discharge of static electricity	+6 kV contact discharge age to IEC 61000 4 2: +9 kV air discharge age
 Interference immunity against discharge of static electricity 	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagneti	c fields
Interference immunity against high frequency	10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-
radiation	4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10
had of a company to the state of the state o	kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	12 lb/ ago to IEC 61000 4.4 humb 14 lb/ ago to IEC 01000 4.5
 Interference immunity on supply cables 	±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
 Interference immunity on signal cables >30m 	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
Interference immunity on signal cables < 30m	±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 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 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP degree of protection	IP20
IP (at the front)	IP20
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	CE, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005
Marine approval	V
Germanischer Lloyd (GL)	Yes
American Bureau of Shipping (ABS)	Yes
Bureau Veritas (BV) Dut Negation (CRN)	Yes
Det Norske Veritas (DNV) Levels Paristan of Objecting (LDO)	Yes
Lloyds Register of Shipping (LRS) Nigrap (Gills (Glass NIC))	Yes
Nippon Kaiji Kyokai (Class NK)	Yes
Ambient conditions	
Ambient temperature during operation	
Ambient temperature during operation	+5 °C up to 55 °C
Ambient temperature during storage/transportation	00.00
• min.	-20 °C

• max.	60 °C
Relative humidity	
Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5% to 80% at 25 °C (no condensation), Storage: 5% to 95% at 25 °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	
 Shock load during operation 	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	312 mm
Height	155 mm; With DVD drive: 179 mm
Depth	301 mm; incl. mounting rail

5/28/2021

last modified: