SIEMENS

Data sheet

6AG1155-6AU01-2CN0



SIPLUS ET 200SP IM155-6PN HF based on 6ES7155-6AU01-0CN0 with conformal coating, -40...+60 °C, 2-port interface module 1 slot for BusAdapter, max. 64 I/O modules, and 16 ET 200AL modules, S2 redundancy, multi hot swap, 0.25 ms, isochronous mode, optional PN strain relief, including server module (6AG1193-6PA00-7AA0)

Figure similar	Fi	gu	re	si	mi	ar	
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General information		
Product type designation	IM 155-6 PN/2 HF	
Firmware version		
 FW update possible 	Yes	
Product function		
 I&M data 	Yes; I&M0 to I&M3	
 Module swapping during operation (hot swapping) 	Yes; Multi-hot swapping	
 Isochronous mode 	Yes	
 Tool changer 	Yes; Docking station and docking unit	
 Local coupling, IO data 	No	
 Local coupling, data records 	No	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from 	see entry ID: 109746275	
version		
Configuration control		
via dataset	Yes	
Supply voltage		
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Reverse polarity protection	Yes	
Mains buffering		
 Mains/voltage failure stored energy time 	10 ms	
Input current		
Current consumption, max.	700 mA	
Inrush current, max.	4.5 A	
l²t	0.25 A ² ·s	
Power loss		
Power loss, typ.	2.4 W	
Address area		
Address space per module		
 Address space per module, max. 	288 byte; For input and output data respectively	
Address space per station		
 Address space per station, max. 	1 440 byte; Dependent on configuration	
Hardware configuration		
Rack		
 Modules per rack, max. 	64; + 16 ET 200AL modules	
Submodules		
Number of submodules per station, max.	256	

Accuracy	10 ms
Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)
1. Interface	
Interface types	
Number of ports	2; via BusAdapter
 integrated switch 	Yes
 BusAdapter (PROFINET) 	Yes; Compatible BusAdapter: BA 2x RJ45, BA 2x FC, BA 2x SCRJ, BA
	SCRJ / RJ45, BA SCRJ / FC, BA 2x LC, BA LC / RJ45, BA LC / FC
Protocols	Vee
PROFINE I TO Device Open IE communication	Yes
Media redundancy	
PROFINET IO Device	
Services	
— IRT	Yes; 250 µs, 500 µs, 1 ms, 2 ms, 4 ms additionally with IRT with high
	performance: 250 µs to 4 ms in 125 µs frame
— PROFlenergy	Yes
— Prioritized startup	Yes
— Shared device	Yes
 Number of IO Controllers with shared device, 	4
max.	
Interrace types	
RJ 45 (Ethernet)	
Iransmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-1X)
• 10 Mbps	NO
Autorrogonation	Yes
Protocols	
Number of connections	
Number of MtM communication	16
relationships/connections, max.	
Redundancy mode	
 PROFINET system redundancy (S2) 	Yes; NAP S2
 PROFINET system redundancy (R1) 	No
 H-Sync forwarding 	Yes
Media redundancy	
— MRP	Yes
— MRPD	
	No
Open IE communication	No
Open IE communication • TCP/IP • SNMP	No Yes
Open IE communication • TCP/IP • SNMP • LL DP	No Yes Yes
Open IE communication TCP/IP SNMP LLDP	No Yes Yes Yes
Open IE communication TCP/IP SNMP LLDP Isochronous mode	No Yes Yes Yes
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest shock pulse	No Yes Yes Yes
Open IE communication TCP/IP SNMP LLDP Isochronous mode Equidistance shortest clock pulse max_cycle	No Yes Yes Yes 250 µs 4 ms
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP) min	No Yes Yes Yes Yes 250 µs 4 ms 250 µs
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP), min. Jitter. max.	No Yes Yes Yes Yes 250 µs 4 ms 250 µs 1 µs
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP), min. Jitter, max.	No Yes Yes Yes 250 μs 4 ms 250 μs 1 μs
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP), min. Jitter, max. Interrupts/diagnostics/status information Status indicator	No Yes Yes Yes 250 μs 4 ms 250 μs 1 μs
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP), min. Jitter, max. Interrupts/diagnostics/status information Status indicator Alarms	No Yes Yes Yes Yes 250 μs 4 ms 250 μs 1 μs Yes
Open IE communication TCP/IP SNMP LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP), min. Jitter, max. Interrupts/diagnostics/status information Status indicator Alarms Diagnostics function	No Yes Yes Yes Yes 250 μs 4 ms 250 μs 1 μs Yes Yes Yes
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP), min. Jitter, max. Interrupts/diagnostics/status information Status indicator Alarms Diagnostics function Diagnostics indication LED	No Yes Yes Yes 250 μs 4 ms 250 μs 1 μs Yes Yes Yes
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP), min. Jitter, max. Interrupts/diagnostics/status information Status indicator Alarms Diagnostics function Diagnostics indication LED • RUN LED	No Yes Yes Yes Yes 250 μs 4 ms 250 μs 1 μs Yes
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP), min. Jitter, max. Interrupts/diagnostics/status information Status indicator Alarms Diagnostics function Diagnostics indication LED • RUN LED • ERROR LED	No Yes Yes Yes Yes 250 μs 4 ms 250 μs 1 μs Yes Yes Yes Yes Yes
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP), min. Jitter, max. Interrupts/diagnostics/status information Status indicator Alarms Diagnostics function Diagnostics indication LED • RUN LED • ERROR LED • MAINT LED	No Yes Yes Yes Yes 250 μs 4 ms 250 μs 1 μs Yes Yes; green LED Yes; red LED Yes; Yellow LED
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP), min. Jitter, max. Interrupts/diagnostics/status information Status indicator Alarms Diagnostics function Diagnostics indication LED • RUN LED • ERROR LED • MAINT LED • Monitoring of the supply voltage (PWR-LED)	No Yes Yes Yes Yes 250 μs 4 ms 250 μs 4 ms 250 μs 1 μs Yes Yes Yes Yes Yes Yes Yes Yes
Open IE communication • TCP/IP • SNMP • LLDP Isochronous mode Equidistance shortest clock pulse max. cycle Bus cycle time (TDP), min. Jitter, max. Interrupts/diagnostics/status information Status indicator Alarms Diagnostics function Diagnostics indication LED • RUN LED • ERROR LED • MAINT LED • Monitoring of the supply voltage (PWR-LED) • Connection display LINK TX/RX	No Yes Yes Yes Yes 250 μs 4 ms 250 μs 1 μs Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

between spry and a other circuits Yes between spry and a other circuits No Standards, sprry and, certificates Image: Standards, sprry and, certificates Standards, sprry and, certificates According to Security Level 1 Test Cases V1.11 Ambient temperature during operation	between backplane bus and electronics	No
between supply and all other circuits No Isolation Foreiding Isolation fueled with 707 V DC (type rest) Standards, approval, certificates According to Security Level 1 Test Cases V1.1.1 Ambient conditions -40 °C; - Trim (ind. condensation/frest) Ambient conditions -40 °C; - Trim (ind. condensation/frest) - entropic installation, max. -40 °C; - Trim (ind. condensation/frest) - entropic installation, max. -40 °C; - Trim (ind. condensation/frest) - entropic installation, max. -40 °C; - Trim (ind. condensation/frest) - entropic installation, max. -40 °C; - Trim (ind. condensation/frest) - entropic installation, max. -40 °C; - Trim (ind. condensation/frest) - entropic installation, max. -40 °C; - Trim (ind. condensation/frest) - entropic installation, max. -40 °C; - Trim (ind. condensation/frest) - entropic instanding asset level, max. - Trim - Trima: 2000 m) / Trim - entropic instanding asset level, max. - Trima: 2000 m - entropic instanding asset level, max. - Trima: 2000 m) / Trim - entropic instanding asset level, max. - Trima: 2000 m) / Trim - entropic instanding asset level, max. - Trima	between PROFINET and all other circuits	Yes
Solution 100000 (bype test) Solution (body of the solution (body of the solution) 707 V DC (type test) Solution (body of the solution) 3 Solution (body of the solution) According to Socurity (body of the solution) Ambient temperature during operation 40 °C, = Times (ncl, condensation/froat) Instruction (nall conditions) 40 °C, = Times (ncl, condensation/froat) Instruction (nall conditions) 50 °C, = Times (ncl, condensation/froat) Instruction (nall conditions) 50 °C, = Times (ncl, condensation/froat) Instruction (nall conditions) 50 °C, = Times (ncl, condensation/froat) Instruction (nall conditions) 50 °C, = Times (ncl, condensation/froat) Instructions (nall conditions) (nall conditions) Instructions (nall conditions) (nall conditions) Instructions and lubricants (nall conditions) Instructions (nall conditions) (nall conditions) Instructions (nall conditions) (nall conditions) Instructions (nall conditions) (nall conditions) Intermediation (nall conditions) (nall conditions) Intermediation (nall conditions) (nall conditions) Inte conditions)	between supply and all other circuits	No
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Standards, approvate, certificates 3 Network loading class 3 Ancording to Security Level 1 Test Cases V1.1.1 Ancording to Security Level 1 Test Cases V1.1.1 Annient temperature during operation 40 °C, = Train (ncl. condensator/frost) • Instraint installation, max. 40 °C, = Train (ncl. condensator/frost) • vertical installation, max. 40 °C, = Train (ncl. condensator/frost) • vertical installation, max. 40 °C, = Train (ncl. condensator/frost) • vertical installation, max. 5000 m • Installation altitude above seal level, max. 5000 m • Miniter temperature-barometric pressure-altitude 5000 m • Miniter temperature-barometric pressure-altitude 5000 m • Condensation / food linking setters 700 m// Train • This condensation / food linking setters 700 m// Train • This condensation / food linking setters 700 m// Train • The biologically active substances according to EN 60721-33 700 m// Train • The biologically active substances according to EN 60721-33 Yes; Class SB2 mod, lungua and dry rot spores (with the exception of EN 60721-33 • The biologically active substances according to EN 60721-33 Yes; Class SB2 mod, lungua and dry rot spores (excluding fa	Isolation tested with	707 V DC (type test)
Network bedring class 3 Security level According to Security Level 1 Test Cases V1.1.1 Ambient conditions 4.0 °C; = Tmin (incl. condensation/frost) Ambient conditions 4.0 °C; = Tmin (incl. condensation/frost) encircinal installation, max. 4.0 °C; = Tmin (incl. condensation/frost) entract and translation, max. 4.0 °C; = Tmin (incl. condensation/frost) entract and translation, max. 4.0 °C; = Tmin (incl. condensation/frost) entract and translation, max. 4.0 °C; = Tmin (incl. condensation/frost) entract and translation, max. 4.0 °C; = Tmin (incl. condensation/frost) entract and translation, max. 4.0 °C; = Tmin (incl. condensation/frost) entract and translation and translatin and translat	Standards, approvals, certificates	
Security level 1 Test Cases V1.1.1 Ambient emperature during operation • horizontal installation, min. • deficient installation, max. • efficient installation, efficient install	Network loading class	3
Ambient conditions Ambient conditions Ambient temperature during operation horizontal instaliation, min. evincal instaliation, max. evincal instaliation, max. evincal instaliation, and the across all evinces according to the avis and tables. evince internation, tested in accordance with IEC 00068-2-38, max. evince internation in the avis and tables. evince internation international instaliation evince internation international instaliation evince internation international instaliation evince internation international instaliation evince international instaliation in the avis internatin in place avis intermanin in place avere international internation	Security level	According to Security Level 1 Test Cases V1.1.1
Ambient emperature during operation • horizontal installation, max. • vertical installation, were vertical installation • resister vertical installation • vertical vertical maximum vertical vert	Ambient conditions	
And a statistic of the statistic of	Ambient temperature during operation	
 Instructure installation, max. Vertical installation (Vertical Vertical Vertical	horizontal installation min	-40 °C: = Tmin (incl. condensation/frost)
 Out Solution and Link Contensation (Incol. Vertical installation, max. Adviced lanstallation, max. Control operation relating to sea level Installation attitude above sea level, max. Ambient at temperature-barometric pressure- altitude Installation attitude above sea level, max. Coll C, = Trimax S 000 m Trimax - 20 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) +2 000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) // Triin (Trimax - 10 k) at 558 hPa 540 hPa (+ 2000 m) // Triin (Trimax - 10 k)	 horizontal installation, max 	$60 ^{\circ}\text{C}$ = Tmax
• vertical installation, max. So "C; = Tmax Atiude during operation relating to sea level • Installation relating to sea level • Installation atilude above sea level, max. • Arbient alt temperature-barometric pressure- altitude vertical installation, max * Arbient alt temperature-barometric pressure- altitude vertical installation, tested in accordance with IEC vertical sand lubricants · Resistance Coolents and lubricants · Resistance Coolents and lubricants · Resistance vertical installation / frost (no commissioning in bedewed state, horizontal installation Ves: Incl. desel and oil droplets in the air and lubricants · Resistance vertical installation vertical sand lubricants · Resistance vertical sand lubricants · Resistance vertical sand lubricants · Resistance ves: Class 3B2 mold, fungus and dry rot spores (with the exception of EN 60721-3-3 · Optimize the substances according to EN 60721-3-4 · D tohologically active substances according to EN 60721-3-4 · D tohologically active substances according to EN 60721-3-4 · D tohologically active substances according to EN 60721-3-4 · D tohologically active substances according to EN 60721-3-4 · D tohologically active substances according to EN 60721-3-4 · D tohologically active substances according to EN 60721-3-4 · D tohologically active substances according to EN 60721-3-4 · D tohologically active substances according to EN 60721-3-4 · D tohologically active substances according to EN 60721-3-4 · D tohologically active substances according to EN 60721-3-4 · D tohologically active substances according to EN 60721-3-4 · D tohologically active substances according to	vertical installation, min	$-40 ^{\circ}\text{C}$ = Tmin (incl. condensation/frost)
Abitude during operation relating to sea level Installation allitude above sea level, max. Ambient all temperature-barometric pressure- atitude 500 m Trini Trinax at 1 140 hPa 795 hPa (+ 1000 m) + 2 000 m) // Trinin (Trinax - 10 K) at 725 hPa 656 hPa 640 hPa (+ 2 000 m) + 3 000 m) Relative humidity With condensation, tested in accordance with IEC 60083-2-38, max. Festiance Coldents and lubricents - To biologically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-4 - to chemically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-4 - to themically active substances according to EN 60721-3-4 - to themically active substances according to EN 60721-3-6 - daginst mechanical environmental conditions acc. to EN 60068-2-52 (severily degree 3).* - escialas EC (All F 60721-3-6 - biologically active substances according to EN 60721-3-6 - biologically active substances according to EN 60721-3-6 - bio	vertical installation, max.	50 °C: = Tmax
 Installation altitude above sea level, max. Ambient air temperature-barometric pressure- altitude With condensation, tested in accordance with IEC 60082-32, max. With condensation, tested in accordance with IEC 60082-33, max. Resistance Collars and lubricants Resistance Incodensation / frost (no commissioning in bedeved sistence in a condensation / frost (no commissioning in bedeved sistence incodensation / frost (no commissioning in bedeved sistence incodensatin / frost (no commissioning in bedeved sistence incodensatin /	Altitude during operation relating to sea level	
• Arbitent alt temperature-barometric pressure- altitude TrninTrnax at 11 40 hPa795 hPa (-1200 m+2000 m.) // Trnin (Trnax - 20 K) at 658 hPa 240 hPa (+3 500 m.) // Trnin (Trnax - 20 K) at 658 hPa 240 hPa (+3 500 m.) // Trnin (Trnax - 20 K) at 658 hPa 240 hPa (+3 500 m.) // Trnin (Trnax - 20 K) at 658 hPa 240 hPa (+3 500 m.) // Trnin (Trnax - 20 K) at 658 hPa 240 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 455 hPa (-100 m.) + 250 00 m.) // Trnin (Trnax - 10 K) 455 hPa (-100 m.) + 250 00 m.) // Trnin (Trnax - 10 K) 455 hPa (-100 m.) + 250 00 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnax - 10 K) 450 hPa (+3 500 m.) // Trnin (Trnix - 10 K) 450 hPa (+3 500 m.) // Trnix // Trnix - 10 K) 450 hPa (+3 500 m.) // Trnix // Trnix - 10 K) 450 hPa (+3 500 m.) // Trnix // Trnix - 10 K) 450 hPa (+3 500 m.) // Trnix // Trni	 Installation altitude above sea level, max. 	5 000 m
altitude (Tmax ± 20 K) at 736 FPa 568 HPa (± 2000 m ± 3500 m) // Tmin Resistance	Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
Evelative humidity ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa 540 hPa (+3 500 m +5 00 m) ((Tmax-20 K) at 658 hPa (-1, 1)) ((Tmax-20 K) at	altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin
Relative humidity 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation • With condensation, tested in accordance with IEC 00088-2-33, max. 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation • Collarits and lubricants • • • • • • • • • • • • •		(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
• vitri condensation, tested in accordance with IEC 6008-238, max. The second s	Relative humidity	
Coolants and lubricants —Resistante Commercially available coolants and lubricants —Resistante Commercially available coolants and lubricants —Lo biologically active substances according to EN 60721-3-3 —to biologically active substances according to EN 60721-3-3 —to biologically active substances according to EN 60721-3-3 —to mechanically active substances according to EN 60721-3-3 —to mechanically active substances according to EN 60721-3-6 —to to Notorial y active substances according to EN 60721-3-6 —to mechanically active substances according to EN 60721-3-6 —to to Rechanically active substances according to EN 60721-3-6 —to mechanically active substances according to EN 60721-3-6 —to suphains thereinally active substances according to EN 60721-3-6 —to supains themical	 With condensation, tested in accordance with IEC 60068-2-38 max 	100 %; RH Incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Coolaris and lubricants Resistant to commercially available coolants and lubricants Use in stationary industrial systems to biologically active substances according to EN 60721-3-3 to themically active substances according to EN 60721-3-3 Yes: Class 382 mold, fungus and dry rot spores (with the exception of farana); Class 383 on request to themically active substances according to EN 60721-3-3 Yes: Class 384 incl. sand, dust.* to biologically active substances according to EN 60721-3-3 Yes: Class 384 incl. sand, dust.* to biologically active substances according to EN 60721-3-6 Yes: Class 682 mold, fungul and dry rot spores (excluding fauna) to biologically active substances according to EN 60721-3-6 Yes: Class 602 (RH < 75 %) incl. sait spray acc. to EN 60068-2-62 (severity degree 3).*	Resistance	
— Resistant to commercially available coolants and lubricants Yes; Incl. diesel and oil droplets in the air — Resistant to commercially available coolants and lubricants Yes; Incl. diesel and oil droplets in the air — to biologically active substances according to EN 60721-3-3 Yes; Class 3B2 mold, fungus and dry not spores (with the exception of fauna); Class 3B3 on request — to themically active substances according to EN 60721-3-3 Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3);	Coolants and lubricants	
and lubricants Use in stationary industrial systems (Resistant to commercially available coolants	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request to chemically active substances according to EN 60721-3-3 Yes; Class 3C4 (RH < 75 %) incl. sait spray acc. to EN 60068-2-52 (severity degree 3); *	and lubricants	
	Use in stationary industrial systems	
EN 60721-3-3	- to biologically active substances according to	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of
 - to chemically active substances according to EN 60721-3.3 - to mechanically active substances according to EN 60721-3.3 - daginst mechanical environmental conditions acc. to EN 60721-3.4 - to biologically active substances according to EN 60721-3.4 - to biologically active substances according to EN 60721-3.6 - to mechanically active substances according to EN 60721-3.6 - to mechanically active substances according to EN 60721-3.6 - to mechanically active substances according to EN 60721-3.6 - magainst mechanical environmental conditions acc. to EN 60721-3.6 - Against mechanical environmental conditions acc. to EN 60721-3.6 - Against mechanical environmental conditions acc. to EN 60721-3.6 - Against mechanical environmental conditions acc. to EN 60654.4 - Environmental conditions for process, measuring and control systems acc. to EN 60654.4 - Note regarding classification of environmental conditions acc. to EN 60721-3.6 - Note regarding classification of environmental conditions acc. to EN 60721-3.1 EN 60664-3 - Note regarding classification of environmental conditions acc. to EN 60664-3 - Note regarding classification of environmental conditions acc. to EN 60684-4 - Note regarding classification of environmental conditions acc. to EN 60684-4 - Note regarding classification of environmental conditions acc. to EN 60684-3 - Note regarding classification of environmental conditions acc. to EN 60684-3 - Note regarding classification of environmental conditions acc. to EN 60684-3 - Note regarding to bulk-1-46058C, Amendment 7 - Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A - Contormal coating, Class A - Yees; Class A	EN 60721-3-3	fauna); Class 3B3 on request
EN 00/21-3-3 (sevenity degree 3),	— to chemically active substances according to	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
EN 60721-3-3 Tes, Class 304 incl. said, dust, — Against mechanical environmental conditions acc. to EN 60721-3-6 Yes; Class 308 using the SIPLUS Mounting Kit ET 200SP (6AG1193- 6AA00-0AA0) Use on ships/at sea to biologically active substances according to EN 60721-3-6 Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. sait spray acc. to EN 60068-2-52 (severity degree 3); *	EIN 00721-3-3	(Sevency degree 5),
 Against mechanical environmental conditions acc. to EN 80721-3-3 Use on ships/at sea - to biologically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 - to mechanical environmental conditions acc. to EN 80721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against chemically active substances acc. to EN 6054-4 - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Coatings for printed circuit board assemblies acc. to EN 60684-3 - Protection against fouling acc. to EN 60684-3 - Protection against fouling acc. to EN 60684-3 - Military testing according to MIL-1-46058C, Amendment 7 - Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A - Connection - With BU/BA Stend - Yes; + 16 ET 200AL modules 	EN 60721-3-3	
acc. to EN 60721-3-3 6AA00-0AA0) Use on ships/at sea - to biologically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 Yes; Class 6C3 (RH < 75 %) Incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	- Against mechanical environmental conditions	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-
Use on ships/at sea — to biologically active substances according to EN 60721-3-6 Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) — to chemically active substances according to EN 60721-3-6 Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * — Against mechanicall active substances according to EN 60721-3-6 Yes; Class 6S3 incl. sand, dust; * — Against mechanical environmental conditions acc. to EN 60721-3-6 Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193- 6AA00-0AA0) Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 Yes; Class 3 (excluding trichlorethylene) — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 Yes; Class 2 (excluding trichlorethylene) Remark — Note regarding classification of environmental conditions acc. to EN 60721.1, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! • Note regarding classification of environmental conditions acc. to EN 60664-3 Yes; Type 1 protection • Protection against fouling acc. to EN 60664-3 Yes; Discoloration of coating possible during service life • Protection against fouling acc. to EN 60664-3 Yes; Discoloration of coating possible during service life • Multitary testing according to MIL-1-46058C, Amendment 7 Yes; Ho ET 200AL modules <t< td=""><td>acc. to EN 60721-3-3</td><td>6AA00-0AA0)</td></t<>	acc. to EN 60721-3-3	6AA00-0AA0)
	Use on ships/at sea	
EN 60721-3-6 Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	— to biologically active substances according to	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
Image: Severity degree 31; * * - to mechanically active substances according to EN 60721-3-6 Yes; Class 6S3 incl. sand, dust; * - Against mechanical environmental conditions acc. to EN 60721-3-6 Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0) Usage in industrial process technology - Against chemically active substances acc. to EN 60654-4 Yes; Class 3 (excluding trichlorethylene) - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) Remark - Note regarding classification of environmental conditions acc. to EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! • Coatings for printed circuit board assemblies acc. to EN 60664-3 Yes; Class 2 for high reliability • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection • Military testing according to MIL-1-46058C, Amendment 7 Yes; Conformal coating • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Yes; + 16 ET 200AL modules Connection method / header Yes; + 16 ET 200AL modules	EN 60721-3-6	Vac: Class 6C2 (DLL < 75 %) inclused terror and to EN 60068 2 52
 to mechanically active substances according to EN 60721-3-6 Against mechanical environmental conditions acc. to EN 60721-3-6 Against chemically active substances acc. to EN 60654-4 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating Coatings for printed circuit board assemblies acc. to EN 60864. Yes; Class 2 for high reliability * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplicable during service life * Supplicable during service life * Supplicable during compound for Printed Bo	EN 60721-3-6	(severity degree 3): *
EN 60721-3-6 Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology Against chemically active substances acc. to EN 60654-4 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 60664-3 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A connection method / header ET-Connection • via BU/BA Send Methodie A Send • Ves; + 16 ET 200AL modules • Methodie A Send • Ves; + 16 ET 200AL modules	to mechanically active substances according to	Yes: Class 6S3 incl. sand. dust: *
 Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology Against chemically active substances acc. to EN 60654-4 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! * Coatings for printed circuit board assemblies acc. to EN 60864-3 Protection against fouling acc. to EN 60664-3 Protection against fouling acc. to EN 60664-3 Yes; Class 2 for high reliability Yes; Class A Yes; Class A 	EN 60721-3-6	· · · , · · · · · · · · · · · · · · · ·
acc. to EN 60721-3-6 6AA00-0AA0) Usage in industrial process technology - Against chemically active substances acc. to EN 60654-4 Yes; Class 3 (excluding trichlorethylene) - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) Remark - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! Conformal coating * Coatings for printed circuit board assemblies acc. to EN 60664-3 Yes; Class 2 for high reliability • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection Yes; Discoloration of coating possible during service life • Military testing according to MIL-1-46058C, Amendment 7 Yes; Conformal coating, Class A Yes; Conformal coating, Class A • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Yes; + 16 ET 200AL modules • via BU/BA Send Yes; + 16 ET 200AL modules Yes; + 16 ET 200AL modules	 Against mechanical environmental conditions 	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-
Usage in industrial process technology - Against chemically active substances acc. to EN 60654-4 Yes; Class 3 (excluding trichlorethylene) - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) Remark - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 Yes; Class 2 for high reliability • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection Yes; Discoloration of coating possible during service life • Military testing according to MIL-I-46058C, Amendment 7 Yes; Conformal coating, Class A Yes; Conformal coating, Class A • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Yes; + 16 ET 200AL modules ET-Connection • via BU/BA Send Yes; + 16 ET 200AL modules	acc. to EN 60721-3-6	6AA00-0AA0)
 Against chemically active substances acc. to EN 60654-4 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! * Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Connection method / header ET-Connection via BU/BA Send Yes; + 16 ET 200AL modules 	Usage in industrial process technology	
	— Against chemically active substances acc. to	Yes; Class 3 (excluding trichlorethylene)
 and control systems acc. to ANSI/ISA- 71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Connection method / header ET-Connection via BU/BA Send Yes; + 16 ET 200AL modules 	EN 00034-4	Ves: Level GX group A/B (excluding trichlorethylene: harmful gas
71.04 level LC3 (salt spray) and level LB3 (oil) Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Yes; Class 2 for high reliability • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection • Military testing according to MIL-I-46058C, Amendment 7 Yes; Conformal coating, Class A • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Yes; + 16 ET 200AL modules Mechanics/material	measuring and control systems acc. to ANSI/ISA-	concentrations up to the limits of EN 60721-3-3 class 3C4 permissible);
Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 Yes; Class 2 for high reliability • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection Yes; Discoloration of coating possible during service life • Military testing according to MIL-I-46058C, Amendment 7 Yes; Conformal coating, Class A Yes; Conformal coating, Class A • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Yes; + 16 ET 200AL modules ET-Connection • via BU/BA Send Yes; + 16 ET 200AL modules	71.04	level LC3 (salt spray) and level LB3 (oil)
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! * Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Connection method / header ET-Connection • via BU/BA Send Yes; + 16 ET 200AL modules 	Remark	
conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 interfaces during operation! Conformal coating • • Coatings for printed circuit board assemblies acc. to EN 61086 Yes; Class 2 for high reliability • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection • Military testing according to MIL-I-46058C, Amendment 7 Yes; Discoloration of coating possible during service life • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Yes; Conformal coating, Class A connection method / header ET-Connection • via BU/BA Send Yes; + 16 ET 200AL modules	 Note regarding classification of environmental 	* The supplied plug covers must remain in place over the unused
Conformal coating • Coatings for printed circuit board assemblies acc. to Yes; Class 2 for high reliability • N 61086 • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection • Military testing according to MIL-I-46058C, Amendment 7 Yes; Discoloration of coating possible during service life • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Yes; Conformal coating, Class A connection method / header ET-Connection • via BU/BA Send Yes; + 16 ET 200AL modules	conditions acc. to EN 60721, EN 60654-4 and	interfaces during operation!
Continue coding Output description Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Ves; Type 1 protection Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Connection method / header ET-Connection via BU/BA Send Yes; + 16 ET 200AL modules	Conformal coating	
EN 61086 • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection • Military testing according to MIL-I-46058C, Amendment 7 Yes; Discoloration of coating possible during service life • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Yes; Conformal coating, Class A connection ET-Connection • via BU/BA Send Yes; + 16 ET 200AL modules	Coatings for printed circuit hoard assemblies acc. to	Yes: Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Yes; Conformal coating, Class A Connection method / header ET-Connection via BU/BA Send Yes; + 16 ET 200AL modules 	EN 61086	
Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Yes; Conformal coating, Class A	 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A connection method / header ET-Connection • via BU/BA Send Yes; + 16 ET 200AL modules Mechanics/material	 Military testing according to MIL-I-46058C, 	Yes; Discoloration of coating possible during service life
	Amendment 7	
connection method / header ET-Connection • via BU/BA Send Yes; + 16 ET 200AL modules Mechanics/material	Qualification and Performance of Electrical	Yes; Conformal coating, Class A
connection method / header ET-Connection • via BU/BA Send Yes; + 16 ET 200AL modules	according to IPC-CC-830A	
ET-Connection • via BU/BA Send Yes; + 16 ET 200AL modules	connection method / header	
via BU/BA Send Yes; + 16 ET 200AL modules Mechanics/material	ET_Connection	
Mechanics/material	• via BLI/BA Send	Yes: + 16 ET 200AL modules
	Mechanics/material	100, 10 ET 200/L modulo

Strain relief	Yes; Optional	
Dimensions		
Width	50 mm	
Height	117 mm	
Depth	74 mm	
Weights		
Weight, approx.	120 g; without BusAdapter	

last modified:

3/31/2023 🖸