SIEMENS

Data sheet

6AG1212-1HE40-2XB0



Figure similar

SIPLUS S7-1200 CPU 1212C DC/DC/relay based on 6ES7212-1HE40-0XB0 with conformal coating, -40...+70 °C, start up -25 °C, signal board: 0, compact CPU, DC/DC/relay, onboard I/O: 8 DI 24 V DC; 6 DQ relay 2 A; 2 AI 0-10 V DC, power supply: DC 20.4-28.8 V DC, program/data memory 75 KB

CPU 1212C DC/DC/relay
see entry ID: 109746275
Yes
20.4 V
28.8 V
Yes
24 V
5 V
250 V
400 mA; Typical
1 200 mA; CPU with all expansion modules
12 A; at 28.8 V
1 000 mA; Max. 5 V DC for SM and CM
L+ minus 4 V DC min.
9 W
75 kbyte
No
1 Mbyte
with SIMATIC memory card
Yes; maintenance-free
Yes
0.085 μs; / instruction

for word operations, typ. CPU-blocks Number of blocks (total) BBs, FCs, FBs, counters and timers. The maximum number of addressable blocks ranges from 1 to 6535. There is no restriction, the entire working memory can be used B * Number, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag * Size, max. Local data * per priority class, max. At byte, Priority class 1 (program cycle): 16 KB, priority class 2 to 28. 6 KB Process image * Inputs, adjustable * Outputs, adjustable * Outputs, adjustable * Outputs, adjustable * Outputs, adjustable * Developed by the counters of day. Clock * Hardware configuration Number of modules per system, max. Time of day. Clock * Hardware clock (real-time) * Secureshisk floating * Overloth inputs usable for technological functions Sourceshisk float * Overloth inputs * Which inputs usable for technological functions Sourceshisk float * Process image * Process image * Process image * Process image * In the process of		
CPLIANCES	for word operations, typ.	1.7 µs; / instruction
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■ Hardware clock (real-time) ■ Backup time ■ Deviation per day, max. Digital inputs Number of digital inputs ■ of which inputs usable for technological functions ■ Source/sink input Number of simultaneously controllable inputs all mounting positions — up to 40 °C, max. Input voltage ■ Rated value (DC) ■ for signal "1" ■ 15 ∨ DC at 1 mA ■ for signal "1" ■ 15 ∨ DC at 2.5 mA Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", max. for interrupt inputs — parameterizable		
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Input delay (for rated value of input voltage) for standard inputs		
for standard inputs		
groups		
groups	·	0.2 μs, 0.4 μs, 0.8 μs, 1.6 μs, 3.2 μs, 6.4 μs and 12.8 μs, selectable in 4
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Cable length • shielded, max. • unshielded, max. 10 ms; max. 10 ms; max. 20 kHz 500 m; 50 m for technological functions 500 m; 50 m for technological functions: No 500 m; for technological functions: No 6; Relays 6; Relays 2 A 30 W with PC, 200 W with AC	for technological functions	
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Number of digital outputs Switching capacity of the outputs with resistive load, max. on lamp load, max. Output delay with resistive load "0" to "1", max. "1" to "0", max. 6; Relays 2 A 30 W with DC, 200 W with AC 10 ms; max.		300 m; for technological functions: No
Switching capacity of the outputs • with resistive load, max. • on lamp load, max. Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms; max.	Digital outputs	
 with resistive load, max. on lamp load, max. Output delay with resistive load "0" to "1", max. "1" to "0", max. 10 ms; max. 10 ms; max. 	Number of digital outputs	6; Relays
 on lamp load, max. Output delay with resistive load "0" to "1", max. "1" to "0", max. 10 ms; max. 10 ms; max. 	Switching capacity of the outputs	
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms; max. 10 ms; max.	 with resistive load, max. 	2 A
• "0" to "1", max. • "1" to "0", max. 10 ms; max. 10 ms; max.	● on lamp load, max.	30 W with DC, 200 W with AC
• "1" to "0", max. 10 ms; max.	Output delay with resistive load	
	• "0" to "1", max.	10 ms; max.
Switching frequency	• "1" to "0", max.	10 ms; max.
	Switching frequency	

and the probability with registive lead many	411-
of the pulse outputs, with resistive load, max.	1 Hz
Relay outputs	
Number of energing evolution may	6 mechanically 10 million, at rated load voltage 100,000
Number of operating cycles, max. Cable length	mechanically 10 million, at rated load voltage 100 000
• shielded, max.	500 m
unshielded, max. unshielded, max.	150 m
	130 111
Analog inputs	
Number of analog inputs	2
Input ranges • Voltage	Yes
Input ranges (rated values), voltages	165
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	≥100k ohms
Cable length	= 100K Offins
shielded, max.	100 m; twisted and shielded
Analog outputs	100 III, twisted and silicided
Number of analog outputs	0
	0
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	10 hit
Resolution with overrange (bit including sign), max.	10 bit
Integration time, parameterizable	Yes
Conversion time (per channel)	625 µs
Encoder	
Connectable encoders	
2-wire sensor	Yes
1. Interface	
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
• RJ 45 (Ethernet)	Yes
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
Open IE communication	Yes
Web server	Yes
PROFINET IO Controller	
Transmission rate, max. Services	100 Mbit/s
Services	40
— Number of connectable IO Devices, max.	16
PROFINET IO Device	
Services	Von
— Shared device	Yes
 Number of IO Controllers with shared device, max. 	2
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	Yes; CM 1243-5 required
AS-Interface	Yes
Protocols (Ethernet)	100
TCP/IP	Yes
Open IE communication	100
TCP/IP	Yes
• ISO-on-TCP (RFC1006)	Yes
• UDP	Yes
* QD 1	100

Web server	
Web server	Yes
supported	
User-defined websites	Yes
Further protocols	Vos
• MODBUS	Yes
communication functions / header	
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes
Number of connections	
• overall	16; dynamically
Test commissioning functions	
Status/control	
 Status/control variable 	Yes
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Forcing	
Forcing	Yes
Diagnostic buffer	
• present	Yes
Traces	
Number of configurable Traces	2; Up to 512 KB of data per trace are possible
Integrated Functions	
Frequency measurement	Yes
controlled positioning	Yes
Number of position-controlled positioning axes, max.	8
PID controller	Yes
Number of alarm inputs	4
Potential separation	
Potential separation digital inputs	
Potential separation digital inputs	500V AC for 1 minute
 between the channels, in groups of 	1
Potential separation digital outputs	
Potential separation digital outputs	Relays
between the channels	No
 between the channels, in groups of 	2
EMC	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static	Yes
electricity acc. to IEC 61000-4-2	
Test voltage at air discharge	8 kV
Test voltage at contact discharge	6 kV
Interference immunity to cable-borne interference	
 Interference immunity on supply lines acc. to IEC 61000-4-4 	Yes
• Interference immunity on signal cables acc. to IEC 61000-4-4	Yes
Interference immunity against voltage surge	
Interference immunity on supply lines acc. to IEC 61000-4-5	Yes
Interference immunity against conducted variable disturbance	e induced by high-frequency fields
 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 	Yes
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes; Group 1
Limit class B, for use in residential areas	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011
Degree and class of protection	
IP degree of protection	IP20
Ambient conditions	
Free fall	

Ambient temperature during operation imin. imix. -40 °C; = Trims; Startup @ -25 °C number of simultaneously switched on digital imputs. 4 digital imputs.	• Fall height, max.	0.3 m; five times, in product package
• max. 70 °C; = Tmax; Tmax > +55 °C number of simultaneously switched on digital inputs 3, grainal orpusts 4, griand outputs 3, analog inputs 2 (no adjacent points) with horizontal mounting position; Tmax > +60 °C number of simultaneously switched on digital inputs 3, digital outputs 2, analog inputs 0 (no adjacent points) with horizontal mounting position. • vertical installation, max. • An cold or estart, min. • vertical installation, max. • An cold or estart, min. • min. • max. • An cold or estart, min. • m		
• vertical installation, min. • vertical installation, min. • vertical installation, min. • vertical installation, min. • Al Cold resiant, min. • min.		70 °C; = Tmax; Tmax > +55 °C number of simultaneously switched-on digital inputs 4, digital outputs 3, analog inputs 2 (no adjacent points) with horizontal mounting position; Tmax > +60 °C number of simultaneously switched-on digital inputs 3, digital outputs 2, analog
Anticle trestart, min. Anticle tremperature during storageltransportation in min. max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level installation attitude above sea level, max. Antitude during operation relating to sea level, max. Antitude during operation relating to sea level, max. Antitude above	 vertical installation, min. 	
Ambient temperature during storage/transportation • min. • max. 70 °C Altitude during operation relating to sea level • Installation attitude above sea level, max. • Ambient air temperature-barometric pressure-altitude • Installation attitude above sea level, max. • Ambient air temperature-barometric pressure-altitude • Information attitude above sea level, max. • Ambient air temperature-barometric pressure-altitude • Information attitude above sea level, max. • Ambient air temperature-barometric pressure-altitude • Information attitude above sea level, max. • Ambient air temperature-barometric pressure-altitude • Information attitude above sea level, max. • Ambient air temperature-barometric pressure-altitude • Information attitude above sea level, max. • Ambient air temperature-barometric pressure-altitude • Information attitude above sea level, max. • Ambient air temperature-barometric pressure-altitude • Information attitude above sea level, max. • Ambient air temperature-barometric pressure-altitude • Information attitude above sea level, max. • Ambient air temperature-barometric pressure-altitude • Information attitude above sea level, max. • Ambient air temperature-barometric pressure-altitude • With a temperature-barometric pressure-altitude 100 %; RH inc. condensation/frost (no commissioning under condensation conditions) • Vest IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms • Vest IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms • Vest IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms • Vest IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms • Vest IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms • Vest IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms • Vest IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms • Vest IEC 68	•	, , , ,
min. max. 70 °C Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Imax. 10 ki) at 785 hPa. (40 00 m +2 000 m) // Tmin. (1max. 20 k) at 585 hPa. (580 hPa (+2 000 m +3 000 m) // Tmin. (1max. 20 k) at 585 hPa. (580 hPa (+2 000 m +3 000 m) // Tmin. (1max. 20 k) at 585 hPa. (580 hPa (+2 000 m +3 000 m) // Tmin. (1max. 20 k) at 585 hPa. (580 hPa (+2 000 m +3 000 m) // Tmin. (1max. 20 k) at 585 hPa. (580 hPa (+2 000 m +3 000 m) // Tmin. (1max. 20 k) at 585 hPa. (580 hPa (+2 000 m +3 000 m) // Tmin. (1max. 20 k) at 585 hPa. (580 hPa (+2 000 m +3 000 m) // Tmin. (1max. 20 k) at 585 hPa. (580 hPa (+2 000 m +3 000 m) // Tmin. (1max. 20 k) at 585 hPa. (580 hPa (+2 000 m) a +2 000 m) and 19 condensation frost (no commissioning under condensation frost (At cold restart, min.	-25 °C
Militude during operation relating to sea level Installation altitude above sea level, max.	Ambient temperature during storage/transportation	
Altitude during operation relating to sea level Instaliation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Timin		
Initial entitle above sea level, max. Ambient air temperature-barometric pressure-altitude Ambient air temperature-barometric pressure-altitude Immax - 10 k/) at 795 hPa (-1 000 m +2 000 m) // Tmin (Imax - 20 k) at 858 hPa (+2 000 m +3 500 m) // Tmin (Imax - 20 k) at 858 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 858 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 858 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 858 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 858 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin (Imax - 20 k) at 85 hPa (+3 500 m +3 500 m) // Tmin Tmax at 1 140 kPa 48 bPa (+3 500 m +3 500 m) // Tmin Tmax at 1 140 kPa 48 bpa (+3 500 m) // Tmin Tmax at 1 140 kPa 48 bpa (+3 500 m) // Tmin Tmax at 1 140 kPa 48 bpa (+3 500 m) // Tmin Tmax at 1 140 kPa 48 bpa (+3 500 m) // Tmin Tmax at 1 140 kPa 48 bpa (+3 500 m) // Tmin Tmax at 1 140 kPa 48 bpa (+3 500 m) // Tmin Tmax at 1 140		70 °C
Ambient air temperature-barometric pressure- altitude alt		2 000 m
With condensation, tested in accordance with IEC 60068-2-36, max.	Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above
Vibrations Vibrations Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Ves Shock testing Ves: IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Resistance Coolants and lubricants Resistance Coolants and lubricants Resistance Coolants and lubricants Los in stationary industrial systems - to biologically active substances according to EN 60721-3-3 To mechanically active substances according to EN 60721-3-3 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 chemically 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 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 - 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 - 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 - 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 - to mechanically active substances according to EN 60721-3-3 dass 3C4 permissible); tevel LC3 (salt spray) and level LB3 (oil) Protection against fouling acc. to EN 60664-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 60664-3 • Military testing according to MIL-1-46058C, Amendment 7 • Oualification and Performance o	Relative humidity	
• Vibiration resistance during operation acc. to IEC 60068-2-6 • Operation, tested according to IEC 60068-2-6 Yes Shock testing • tested according to IEC 60068-2-7 Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants — In biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 Use in ships/at sea — to biologically active substances according to EN 60721-3-3 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 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 — 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 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to EN 60721-3-7 — to EN 607	60068-2-38, max.	
Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Resistance Coolants 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 mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — EN		0 - ((-2)
• tested according to IEC 60068-2-27 • tested according to IEC 60068-2-27 Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants — Testistance 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 Use on ships/st sea — 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 — 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 — 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 — 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 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to the micially active substances according to EN 60721-3-6 — to the micially active substances according to EN 60721-3-6 — to the micially active substances according to EN 60721-3-6 — to the micially active substances according to EN 60721-3-6 — to the micially active substances according to EN 60721-3-6 — to the micially active substances according to EN 60721-3-6 — to the micially active substances according to EN 60721-3-6 — to the micially active substances according to EN 60721-3-6 — to the micially active substances according to EN 60721-3-6 — to the micially active substances according to EN 60721-3-6 — to the micially active substances according to EN 60721-3-6 — to the micially active substances accordi		ע (יוויא') waii mounung, ו g (m/s²) אוט raii
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Resistance Coolants 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 mechanically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to EN 60721-3-3 Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to chemically 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 — 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 — to mechanically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to biologically active substances according to E		
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EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 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 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 — 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 — 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 — 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 — 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 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 6068-2-52 (severity degree 3); * Yes; Class 6B3 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B3 mold. sand, dust; * Yes; Class 6B3 incl. sand, dust; * Yes; Class 3 (scluding trichlorethylene) Yes; Class 3 (excluding trichlorethylene) 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) * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for	·	Vac: Class 3R2 mold, fundus and dry rot shores (with the exception of
EN 60721-3-3 — to mechanically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to chemically 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 — 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 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 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical (severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6B3 incl. sand, dust, * Yes; Class 6B2 mold and fungal spores (excluding funcles) incl. salt spray acc. to EN 60068-2-52 (sevently degree 3); * Yes; Class 6B3 incl. sand, dust, * Yes; Class 6B3 incl. sand, dust, * Yes;	EN 60721-3-3	fauna); Class 3B3 on request
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 mechanically active substances according to EN 60721-3-6 — to mechanically active substances according 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	EN 60721-3-3	(severity degree 3); *
EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according 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 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-252 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 3 (excluding trichlorethylene) 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) * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A		
EN 60721-3-6 — to mechanically active substances according 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 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 3 (excluding trichlorethylene) 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) * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A		
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! * 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! * Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A	EN 60721-3-6	(severity degree 3); *
 — 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! * 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 Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene) Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene) Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A 	EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
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! * 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! * Yes; Class 2 for high reliability Yes; Type 1 protection * Wes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A	, , , , , , , , , , , , , , , , , , , ,	Voc. Class 2 (avaluding trichlarathylans)
measuring and control systems acc. to ANSI/ISA-71.04 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 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 concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A	EN 60654-4	
 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 * Military testing according to MIL-I-46058C, Amendment 7 * Qualification and Performance of Electrical * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A 	measuring and control systems acc. to ANSI/ISA-71.04	concentrations up to the limits of EN 60721-3-3 class 3C4 permissible);
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 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical interfaces during operation! Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Type 1 protection Yes; Discoloration of coating possible during service life		+T
 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 Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A 	conditions acc. to EN 60721, EN 60654-4 and	
 EN 61086 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A 		
 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A 	EN 61086	
Qualification and Performance of Electrical Yes; Conformal coating, Class A	 Military testing according to MIL-I-46058C, 	
		Yes; Conformal coating, Class A

according to IPC-CC-830A	
configuration / header	
configuration / programming / header	
Programming language	
— LAD	Yes
— FBD	Yes
SCL	Yes
programming / cycle time monitoring / header	
 adjustable 	Yes
Dimensions	
Width	90 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	385 g
last modified:	4/1/2022 🖸