SIEMENS

Data sheet

6AG1215-1BG40-5XB0



SIPLUS S7-1200 CPU 1215C AC/DC/relay based on 6ES7215-1BG40-0XB0 with conformal coating, -40...+60 °C, start up -25 °C, compact CPU, AC/DC/relay, 2 PROFINET ports onboard I/O: 14 DI 24 V DC; 10 DQ relay 2 A; 2 AI 0-10 V DC, 2 AQ 0-20 mA DC power supply: AC 85-264 V AC @ 47-63 Hz, program/data memory 125 KB

Figure similar

General information	
Product type designation	CPU 1215C AC/DC/relay
Firmware version	V4.1
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	see entry ID: 109746275
Supply voltage	
Rated value (AC)	
• 120 V AC	Yes
• 230 V AC	Yes
permissible range, lower limit (AC)	85 V
permissible range, upper limit (AC)	265 V
Line frequency	
permissible range, lower limit	47 Hz
permissible range, upper limit	63 Hz
Input current	
Current consumption (rated value)	100 mA at 120 V AC; 50 mA at 240 V AC
Current consumption, max.	300 mA at 120 V AC; 150 mA at 240 V AC
Inrush current, max.	20 A; at 264 V
Encoder supply	
24 V encoder supply	
• 24 V	20.4 to 28.8V
Power loss	
Power loss, typ.	12 W
Memory	
Work memory	
• integrated	100 kbyte
Load memory	
• integrated	4 Mbyte
 Plug-in (SIMATIC Memory Card), max. 	with SIMATIC memory card
Backup	
• present	Yes; maintenance-free
without battery	Yes
CPU processing times	
for bit operations, typ.	0.085 μs; / instruction
for word operations, typ.	1.7 μs; / instruction
for floating point arithmetic, typ.	2.5 μs; / instruction
CPU-blocks	
Number of blocks (total)	DBs, FCs, FBs, counters and timers. The maximum number of addressable blocks ranges from 1 to 65535. There is no restriction, the entire working

	memory can be used
OB	
Number, max.	Limited only by RAM for code
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	10 kbyte
Flag	
• Size, max.	8 kbyte; Size of bit memory address area
Address area	
Process image	
• Inputs, adjustable	1 kbyte
Outputs, adjustable	1 kbyte
Hardware configuration	
Number of modules per system, max.	3 comm. modules, 1 signal board, 8 signal modules
Time of day	
Clock	
Hardware clock (real-time)	Yes
Backup time	480 h; Typical
Deviation per day, max.	±60 s/month at 25 °C
Digital inputs	
Number of digital inputs	14; Integrated
of which inputs usable for technological functions	6; HSC (High Speed Counting)
Source/sink input	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	14
Input voltage	A.W.
Rated value (DC)	24 V
• for signal "0"	5 V DC at 1 mA
• for signal "1"	15 V DC at 2.5 mA
Input delay (for rated value of input voltage)	
for standard inputs	Vac: 0.2 ma 0.4 ma 0.9 ma 1.6 ma 2.2 ma 6.4 ma and 12.9 ma calcatable in
— parameterizable	Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four
— at "0" to "1", min.	0.2 ms
— at "0" to "1", max.	12.8 ms
for interrupt inputs	
— parameterizable	Yes
for technological functions	
— parameterizable	Yes; Single phase: 3 at 100 kHz & 3 at 30 kHz, differential: 3 at 80 kHz & 3 at
	30 kHz
Cable length	
• shielded, max.	500 m; 50 m for technological functions
• unshielded, max.	300 m; for technological functions: No
Digital outputs	
Number of digital outputs	10; Relays
Switching capacity of the outputs	
with resistive load, max.	2 A
• on lamp load, max.	30 W with DC, 200 W with AC
Output delay with resistive load	40
• "0" to "1", max.	10 ms; max.
• "1" to "0", max.	10 ms; max.
Switching frequency	4.11-
of the pulse outputs, with resistive load, max. Pelov outputs	1 Hz
Relay outputs	10
Number of relay outputs Number of parenting system may	10
Number of operating cycles, max. Cable length	mechanically 10 million, at rated load voltage 100 000
Cable length	500 m
shielded, max. unphiolded, max.	500 m
unshielded, max. Analog inpute	150 m
Analog inputs Number of applies inputs	2
Number of analog inputs	2

land on an	
Input ranges	Voc
Voltage	Yes
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	≥100k ohms
Cable length	
• shielded, max.	100 m; twisted and shielded
Analog outputs	
Number of analog outputs	2
Output ranges, current	
• 0 to 20 mA	Yes
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	10 bit
 Integration time, parameterizable 	Yes
 Conversion time (per channel) 	625 µs
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	10 bit
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
1. Interface	165
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	W.
RJ 45 (Ethernet)	Yes
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	Yes; Also simultaneously with IO-Device functionality
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
Number of connectable IO Devices, max.	16
PROFINET IO Device	
Services	
 — 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)	
• TCP/IP	Yes
Open IE communication	
• TCP/IP	Yes
• ISO-on-TCP (RFC1006)	Yes
• UDP	Yes
Web server	
	Vac
supported User defined websites	Yes
User-defined websites	Yes
Further protocols	W
• MODBUS	Yes
communication functions / header	
S7 communication	
• supported	Yes

a 2c conver	Yes
• as server	
as client Number of connections	Yes
Number of connections	4C; dynamically
• 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
Number of positioning axes via pulse-direction interface	Up to 4 with SB 1222
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 electricity acc. to IEC 61000-4-2	Yes
 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 indu	ced 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	
● Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C
• max.	60 °C; = Tmax; Tmax > +55 °C number of simultaneously switched-on digital
	inputs 7, digital outputs 5, analog inputs 2, analog outputs 2 (no adjacent points) with horizontal mounting position
At cold restart, min.	-25 °C
At cold restart, min. Ambient temperature during storage/transportation	-25 °C

Abhitude during operation relating to see level, max	• may	70 °C
Installation althorize above sea level, max. Antibient air temperature-barometric pressure-altitude Antibient air temperature-barometric pressure-altitude air temperature-barometric pressure-alti	Max. Altitude during operation relating to see level.	70 °C
- Annibent air temperature barometric pressure altitude - 10 (s) at 759 Fib.—858 Pa (1 200 m. + 3 000 m); 7 min. (1 - 10 kg) at 759 Fib.—858 Pa (1 200 m. + 3 000 m); above 2 000 m max. 132 visited to 10 kg. 13 kg. 140 kg.		2,000 m
With condensation, tested in accordance with IEC 60082-238, max.		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 2 000 m max. 132 V AC
2-38, max. Conditions	Relative humidity	
Vibration resistance during operation acc. to IEC 60088-2-6 Shock teating • tested according to IEC 60088-2-7 Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants — Resistant to commercially available coolants and lubricants — Resistant to commercially available coolants and lubricants — Resistance Coolants and lubricants — In biologically active substances according to EN 60721-3-3 — to chemically 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 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 60721-3-6 — to mechanically active substances according to EN 60721-3-7 — to mechanically active substances according to EN 60721-3-7 — to mechanically active substances according to EN 60721-3-7 — to mechanically active substances according to EN 60721-3-7 — to mechanically active substances according to EN 60721-3-7 — to mechanically active substan		
2-6	Vibrations	
Shock testing • tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Coolinats and lubricants		2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
• 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 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to themically 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 60721-3-3-6 — to mechanically active substances according to EN 60721-3-3-6 — to mechanically active substances according to EN 60721-3-3-6 — to mechanically active substances according to EN 60721-3-3-6 — to mechanically active substances according to EN 60721-3-3-6 — to mechanically active substances according to EN 60721-3-3-6 — to mechanically active substances according to EN 60721-3-3-6 — Not mechanically active substances according to EN 60721-3-3-6 — Note regarding classification of process, measuring and control systems acc. to EN 60721, EN 6065-4 and ANSI/SA-71-04 — Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 6065-4 and ANSI/SA-71-04 — Configuration / Protection against forting acc. to EN 60664-3 — Military testing according to MIL-1-46056C, Amendment 7 — Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-0-230A — FBD — SCL Programming / header Programming / header Programming / species time monitoring / header — adjustable — SCL Programming / cycle time monitoring / header — adjustable — SCL Programming / SCL Programmi	Operation, tested according to IEC 60068-2-6	Yes
Resistant to commercially available coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to blodgically 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 — to mechanically active substances according to EN 60721-3-3 — 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 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 Configuration of process, measuring and control systems acc. to EN 6064-3 — Environmental conditions acc. to EN 6064-3 — Note regarding classification of environmental conditions acc. to EN 60721, EN 6064-4 and ANSIRSA-71.04 — Coalings for printed circuit board assemblies acc. to EN 61086 — Protection against fouling acc. to EN 60664-3 — Military testing according to MIL-146058C, Amendment 7 — Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-6-800A — Protection against fouling acc. to EN 60664-3 — Military testing according to MIL-146058C, Amendment 7 — SCL — FBD — SCL — FBD — SC		
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 chemically active substances according to EN 60721-3-3 Use on shipsat sea — to biologically active substances according to EN 60721-3-3 Use on shipsat sea — to biologically active substances according to EN 60721-3-3 Use on shipsat sea — to biologically active substances according to EN 60721-3-6 — to nemically active substances according to EN 60721-3-6 — to nemically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances according to EN 60721-3-6 Usage in industrial process technology — Yes; Class 3(RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severit degree 3); "Yes; Class 683 incl. sand, dust; "Yes; Class 683 incl.	tested according to IEC 60068-2-27	
- Resistant to commercially available coolants and lubricants Use in stationary industrial systems - to biologically active substances according to EN 60721-3-3 - to chemically 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 - to mechanically active substances according to EN 60721-3-3 - to mechanically 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 - Usage in industrial process technology - Against chemically active substances acc. to EN 60068-2-52 (sevent degree 3); * Yes; Class 6S3 incl. sand, dust.* - Environmental conditions for process, measuring and control systems acc. to ANSI/SA-71.04 Remark - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal carding • Coatings for printed circuit board assemblies acc. to EN 60684-3 • Millitary testing according to MIL-1-46058C, Amendment 7 • Qualification and Performance of Electrical insulating Compound for Printed Board Assemblies according to IPC-C2-830 • ARD Programming I header Programming I header Programming I header Programming I degree • adjustable - SCL Programming I degree • adjustable - Against chemically active substances according to IPC-C2-830 Answer IPC-C2-830 Ans		
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 — to mechanically 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 — to mechanically active substances according to EN 60721-3-3 — to themically active substances according to EN 60721-3-6 — to themically 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 EN 60721-3-6 — to EN 60721-3-6 — to EN 60721-3-6 — to EN 60068-2-52 (severit degree 3).*		
- to biologically active substances according to EN 60721-3-3 to chemically 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 to mechanically active substances according to EN 60721-3-3 to biologically active substances according to EN 60721-3-4 to thermically active substances according to EN 60721-3-6 to mechanically active substances according to EN 60721-3-6		Yes; Incl. diesel and oil droplets in the air
60721-3-3 — to be chamically 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 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 — Environmental conditions for process, measuring and control systems 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 — Protection against fouling acc. to EN 60664-3 — Military testing according to MIL-1-46658C, Amendment 7 — Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CR-30A Configuration / header configuration / programming / header Programming language — LAD — FBD — SCL programming / cycle time monitoring / header a djustable Nest Class 3C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (sevent degree 3),* Yes; Class 6S3 incl. sand, dust, * Yes; Class 6S2 (pr c7 %) incl. salt spray acc. to EN 60068-2-52 (sevent degree 3),* Yes; Class 6S3 incl. sand, dust, * Yes; Class 6S3 incl. sand, dus	·	
60721-3-3 — 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 the microsic substances according to EN 60721-3-6 — to the microsic substances according to EN 60854-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Conformal coating	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 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 • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60684-3 • Military testing according to ML-146056C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A configuration / header configuration / programming / header Programming language — LAD — FBD — SCL — Poptomentions Width — 130 mm Pepth 75 mm	60721-3-3	
- 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 EN 60721, EN 60654-4 and 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-146058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A configuration / header configuration / programming / header Programming language - LAD - FBD - SCL		Yes; Class 3S4 incl. sand, dust, *
request - 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 60654-4 and ANSI/ISA-71.04 Conformal coading • 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 configuration / header - LAD - FBD - SCL - Programming language - LAD - FBD - SCL - Programming / header • adjustable New Yes - Sc Lass 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (sevent 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); lev. LC3 (salt spray) and level LB3 (oil) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); lev. 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; Discoloration of coating possible during service life Yes; Conformal coating, Class A * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Type 1 protection Yes; Type 1 protection Yes; Class 2 for high reliability Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A Yes Yes Yes Yes Yes Programming language - LAD - FBD - SCL - Yes Yes Yes Yes Yes Yes Yes Yes	Use on ships/at sea	
degree 3); * - 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 61086 • Protection against fouling acc. to EN 60664-3 • 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 configuration / header Programming language - LAD - FBD - SCL programming / cycle time monitoring / header • adjustable Agistable degres 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); lev. LC3 (salt spray) and level LB3 (oil) * 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 of the fact of		
Usage in industrial process technology		Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (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 Conformal coating		Yes; Class 6S3 incl. sand, dust; *
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-1-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-Co-830A configuration / header — LAD — FBD — SCL — Programming language — LAD — FBD — SCL — yes programming / cycle time monitoring / header • adjustable programming / cycle time monitoring / header • adjustable Midth — 130 mm Test GN 60721-3-3 class 3C4 permissible); lev LC3 (salt spray) and level LB3 (oil) * 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 supplied plug covers must remain in place over the unused interface	Usage in industrial process technology	
and control systems acc. to ANSI/ISA-71.04 Remark		Yes; Class 3 (excluding trichlorethylene)
- Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating		concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level
conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating	Remark	
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 Configuration / header configuration / programming / header Programming language — LAD — FBD — SCL — PSCL — programming / cycle time monitoring / header e adjustable Ves; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A Tyes; Conformal coating, Class A Yes; Conformal coating, Class A Tyes; Conformal coating to the Tyes	conditions acc. to EN 60721, EN 60654-4 and	* The supplied plug covers must remain in place over the unused interfaces during operation!
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 configuration / header configuration / programming / header Programming language LAD FBD FBD Yes SCL Programming / cycle time monitoring / header programming / cycle time monitoring / header ves; Conformal coating, Class A Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A Yes; Conformal coating, Class A Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A	Conformal coating	
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 Configuration / header Configuration / programming / header Programming language — LAD — FBD — SCL — PSCL — Yes programming / cycle time monitoring / header Yes Programming / cycle time monitoring / header Yes Midth 130 mm Height Depth Testing in MIL-I-46058C, Amendment 7 Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A Yes; Conformal coating, Class A Yes Yes Yes Yes Yes Yes 130 mm 130 mm 75 mm		Yes; Class 2 for high reliability
Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies 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 130 mm Height 100 mm Depth 75 mm	 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
Compound for Printed Board Assemblies 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 130 mm Height 100 mm Depth 75 mm	 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
configuration / header configuration / programming / header Programming language — LAD — FBD — FBD — SCL — Yes programming / cycle time monitoring / header • adjustable Pimensions Width 130 mm Height 100 mm Depth 75 mm	Compound for Printed Board Assemblies according to IPC-	Yes; Conformal coating, Class A
configuration / programming / header Programming language — LAD Yes — FBD Yes — SCL Yes programming / cycle time monitoring / header ■ adjustable Yes Dimensions Width 130 mm Height 100 mm Depth 75 mm		
Programming language — LAD — FBD — Yes — SCL — Yes programming / cycle time monitoring / header • adjustable Programming / wes Dimensions Width 130 mm Height 100 mm Depth 75 mm		
— LAD Yes — FBD Yes — SCL Yes programming / cycle time monitoring / header • adjustable • adjustable Yes Dimensions Width 130 mm Height 100 mm Depth 75 mm		
— FBD Yes — SCL Yes programming / cycle time monitoring / header	· · · · · ·	Yes
— SCL Yes programming / cycle time monitoring / header • adjustable ● adjustable Yes Dimensions Width 130 mm Height 100 mm Depth 75 mm		
programming / cycle time monitoring / header		
● adjustable Yes Dimensions Width 130 mm Height 100 mm Depth 75 mm		
Dimensions Width 130 mm Height 100 mm Depth 75 mm		Yes
Width 130 mm Height 100 mm Depth 75 mm	•	
Height 100 mm Depth 75 mm		130 mm
Depth 75 mm		
Weignis	Weights	TV IIIII
Weight, approx. 550 g		550 g
last modified: 4/1/2022 (7		•

