SIEMENS

Data sheet

6AG1215-1BG40-2XB0



SIPLUS S7-1200 CPU 1215C AC/DC/relay based on 6ES7215-1BG40-0XB0 with conformal coating, -40...+70 °C, start up -25 °C, signal board: 0, 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

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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	memory can be used
Number, max.	Limited only by RAM for code
Data areas and their retentivity	
	10 khuta
Retentive data area (incl. timers, counters, flags), max.	10 kbyte
 Flag Size, max. 	8 kbyte; Size of bit memory address area
Address area	o kuyte, Size of bit memory address area
Process image	d like to
Inputs, adjustable	1 kbyte
Outputs, adjustable	1 kbyte
Hardware configuration	
Number of modules per system, max.	3 communication modules, no signal board can be used, 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	
 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	
— 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	
• "0" to "1", max.	10 ms; max.
• "1" to "0", max.	10 ms; max.
Switching frequency	
 of the pulse outputs, with resistive load, max. 	1 Hz
Relay outputs	
Number of relay outputs	
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000
Cable length	
• shielded, max.	500 m
unshielded, max.	150 m
Analog inputs	
Number of analog inputs	2

Input ranges	Vec
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	
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; 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
 — Shared device — Number of IO Controllers with shared device, max. 	2
	2
Protocols Supports protocol for PROFINET IO	Vec
Supports protocol for PROFINET IO	Yes
PROFIsafe	No Vice CM 1212 5 required
PROFIBUS	Yes; CM 1243-5 required
AS-Interface	Yes
Protocols (Ethernet)	Ver
• TCP/IP	Yes
Open IE communication	Vec
	Yes
ISO-on-TCP (RFC1006)	Yes
• UDP	Yes
Web server	
supported	Yes
User-defined websites	Yes
Further protocols	
• MODBUS	Yes
communication functions / header	
S7 communication	
supported	Yes

• ac identi Yes Number of connectors 16: dynamically Test commissioning functions Status control Status control visable Yes • Variables Impelsion/puts, memory bits, DBs, distributed I/Os, firmers, counters Forcing Yes • Status control visable Yes • Forcing Yes • Forcing of configurable Traces 2: Up to 512 KBs of data per trace are possible • Forcing of configurable Traces 2: Up to 512 KBs of data per trace are possible • Forcing a separation digital inputs 5 • Potential separation digital inputs 50007 AC for 1 minute • Determine inputs 5 • Potential separation digital inputs 5 • Determine inputs 6 • Determine inputs 6 • Determine inputs 6 • Dete		Ver
Number of consections 16; dynamically Test commissioning functions 16; dynamically Structorental 19; dynamically Variables Inputsioniput, memory bits, DBs, distributed I/Os, timere, counters Forcing Yes Dapposite buffer - • Number of configurable Traces 2. Up to 512 KB of data per trace are possible Integrated Functions Yes Protecting Yes Optimital seguration controlled positioning axee, max. 8 Potential seguration digital inputs 60007 AC for 1 minute • Eavewent the channels, in groups of 1 • Detroital seguration digital inputs 60007 AC for 1 minute • Eavewent the channels, in groups of satic electricity 1 • Interference immunity signal discharge of static electricity 1 • Interference immunity signal discharge of static electricity Yes • Interferen	• as server	Yes
versal 16, dynamically Test accommissioning functions StatusControl S		Yes
Test commissioning functions Yes Statusticentric Yes • Statusticentric Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters Forcing Yes Daparesite buildre • • Practing Undertone Yes • Number of configurable Traces 2; Up to 512 KB of data per trace are possible Integrated Functions Yes Program Yes Number of positioning area, max. 8 PDI controller Yes Number of anin inputs 4 Potential separation digital inputs 600V AC for 1 minute • Potential separation digital outputs Relays • Extreme the channels, in groups of 1 • Extreme the channels, in groups of 2 • Interference immunity against discharge of static electricity 8 kV • Interference immunity against discharge 8 kV • Interference immunity on supply lines acc. to IEC 61000- 44 • Interference immunity against tole-fuency relation Y		
Status/control Yes • Status/control variable Yes • Status/control variable Inputs/outputs, memory bits, DBs, distributed NDs, times, counters • Forcing • • Forcing Yes • Diagnostic buffer • • present Yes • Number of configurable Traces 2: Up to 512 KB of data per trace are possible Number of position controlled positioning axes, max. 8 PDecontroller Yes Number of position controlled positioning axes, max. 8 Phoential separation digital inputs 500V AC for 1 minute • Potential separation digital inputs 500V AC for 1 minute • Potential separation digital outputs Foldering approximation of the channels, in groups of • Eliference Immunity against discharge of static electricity Yes • Interference Immunity against discharge of static electricity Yes • Interference Immunity against discharge of static electricity Yes • Interference Immunity against discharge of static electricity Yes • Interference Immunity against discharge of static electricity Yes • Interference Immunity against discharge of static electricity Yes • Interference Immunity against discharge of the C6 61000-4.4 Yes • Interference Immunity against discharge of the C6 61000-4.4 Y		16; dynamically
• Studies Yes • Variables Inputation/puts, memory bits, DBs, distributed I/Os, timers, counters • Forcing Yes • Bagnostic buffer • • present Yes • Number of configurable Traces 2: Up to 512 KB of data per trace are possible • Number of configurable Traces 2: Up to 512 KB of data per trace are possible • Number of configurable Traces 2: Up to 512 KB of data per trace are possible • Number of asson inputs 4 • Potential separation digital inputs 5007 AC for 1 minute • Potential separation digital inputs 5007 AC for 1 minute • Extendial separation digital outputs 8 • Potential separation digital outputs 8007 AC for 1 minute • Extendial separation digital outputs 8 • Potential separation digital outputs No • Extendial separation digital outputs 8 • Potential separation digital outputs No • Extendial separation digital outputs </td <td></td> <td></td>		
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Forcing Yes Obiognostic buffer Yes • present Yes Traces 2: Up to 512 KB of data per trace are possible Integrated Functions Yes Frequency measurement Yes Optimized positioning Yes Outline of position controlled positioning axes, max. 8 PiD controller Yes Number of position-controlled positioning axes, max. 8 PiD controller Yes Ves 500V AC for 1 minute • Potential separation digital inputs 500V AC for 1 minute • Potential separation digital outputs Following separation digital outputs • Potential separation digital outputs Relays • between the channels, in groups of 2 EINO EINO Interference immunity against discharge of static electricity Yes • Interference immunity on signal cables acc, to EC 61000-4 Yes • Interference immunity on signal cables acc, to EC 61000-4 Yes • Interference immunity on signal cables acc, to EC 61000-4 Yes • Interference immunity on signal cables acc, to EC 61000-4 Yes • Interference immunity against	 Status/control variable 	Yes
• Forcing Ves Diagrastic buller • present Ves Traces · Configurable Traces · Ves Traces · Number of configurable Traces · Ves Traces · Number of configurable Traces · Ves · Ves · Number of configurable Traces · Ves · Ve	Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Diagnostic buffer Yes • present Yes • Number of configurable Traces 2. Up to 512 KB of data per trace are possible Integrated Encicons Frequency measurement. Yes Frequency measurement. Yes Number of positioning axes, max. 8 PD controller Yes Number of positioning axes, max. 8 POtential separation digital inputs 500V AC for 1 minute • • Potential separation digital inputs 500V AC for 1 minute • • Potential separation digital outputs Relays • • Potential separation digital outputs Relays • • Potential separation digital outputs Relays • • Detreme insurption gainst discharge of static electricity • • • Interference immunity against discharge of static electricity Yes • • Interference immunity against discharge of static electricity Yes • • Interference immunity on signal cables core, to IEC 61000- 44 Yes • • Interference immunity against tonducet wariable disturbance inducet by high-frequency fields • • Interference immunity	Forcing	
Present Traces Number of configurable Traces Sup to 512 KB of data per trace are possible Integrated Functions Frequency measurement Yes Controlled positioning axes, max. 8 Plo controlled positioning axes, max. 9 Potential separation digital inputs • Potential separation digital inputs • Potential separation digital outputs • Potential separation • Interference immunity against discharge of static electrolity • Interference immunity against discharge • Interference i		Yes
Traces 2; Up to 512 KB of data per traces are possible Integrated Functions Frequency measurement Yes Controlled positioning Yes Number of position-controlled positioning axes, max. 8 PID controller Yes Number of position-controlled positioning axes, max. 8 PiD controller Yes Number of almong to position-controlled positioning axes, max. 8 Potential separation digital inputs 500V AC for 1 minute • Potential separation digital outputs Relays • Potential separation digital outputs Relays • between the channels, in groups of 2 EMC Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity 9 • Interference immunity on supply lines acc. to IEC 61000-42 Yes • Interference immunity on supply lines acc. to IEC 61000-44 Yes • Interference immunity against discharge of static electricity Yes • Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against conducted variable disturbance induced by high-frequency fields • Interference immunity against conducted variable disturbance induced	Diagnostic buffer	
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PID controler Yes Number of alarm inputs 4 Potential separation digital inputs 500V AC for 1 minute • Potential separation digital inputs 500V AC for 1 minute • Detential separation digital outputs 500V AC for 1 minute • Detential separation digital outputs Relays • Detween the channels No • Detween the channels No • Interference immunity against discharge of static electricity 8 kV - Test voltage at contact discharge 6 kV Interference immunity on supply lines acc. to IEC 61000-42 Yes • Interference immunity against voltage surge 1 • Interference immunity against tip-frequency radiation acc. to IEC 61000-45 Yes • Interference immunity against tip-frequency radiation acc. to IEC 61000-45 Ye	controlled positioning	Yes
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Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels, in groups of • Potential separation digital outputs • between the channels • between the channel	PID controller	Yes
Potential separation digital inputs 500V AC for 1 minute > between the channels, in groups of 1 Potential separation digital outputs Relays > between the channels, in groups of 2 EMC Interference immunity against discharge of static electricity Interference immunity to cable-borne interference Interference immunity on supply lines acc. to IEC 61000-44 Interference immunity on signal cables acc. to IEC 61000-44 Interference immunity on signal cables acc. to IEC 61000-44 Interference immunity on supply lines acc. to IEC 61000-45 Interference immunity on supply lines acc. to IEC 61000-45 Interference immunity against toinduced variable disturbance induced by high-frequency fields Interference immunity against toinduced variable disturbance induced by high-frequency fields Interference immunity against toinduced variable disturbance induced by high-frequency fields Interference immunity against toinduced variable disturbance induced by high-frequency fields Interference immunity against toinduced variable disturbance induced by high-frequency fields Interference immunity against high-frequency radiation acc. to IEC 61000-45 Emission of radio interference acc. to EK 56 011 Emission of radio interference acc. to EK 56 011 <li< td=""><td>Number of alarm inputs</td><td>4</td></li<>	Number of alarm inputs	4
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Potential separation digital outputs Relays Potential separation digital outputs 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 Test voltage at air discharge KV Test voltage at ontact discharge KV Interference immunity against discharge KV Test voltage at contact discharge KV Interference immunity on supply lines acc. to IEC 61000-44 Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity against voltage surge Yes Interference immunity against toinducted variable disturbance induced by high-frequency fields Interference immunity against toinducted variable disturbance induced by high-frequency fields Interference acc. to EN 55 011 Umit class A, for use in industrial areas Yes; Group 1 Umit class A, for use in industrial areas Yes; When appropriate measures are used to ensure compliance with the for Class B according to EN 5011 Pagere of protection <td></td> <td>1</td>		1
Potential separation digital outputs Potential separation Potential separation digital outputs Potential separation digital outputs Potential separation Potential separation digital outputs Potential separation Potentiale separation Potential separation Potential separation		
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EMC Interference immunity against discharge of static electricity ac. to IEC 61000-42 Yes — Test voltage at air discharge 8 kV — Test voltage at contact discharge 6 kV Interference immunity to cable-borne interference 6 kV 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 Yes • Interference immunity against conducted variable disturbance induced by high-frequency fields Yes • Interference immunity against conducted variable disturbance induced by high-frequency fields Yes • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Yes Emission of radio interference acc. to EN 55 011 Yes Group 1 • Limit class A, for use in industrial areas Yes; Group 1 • Limit class B, for use in residential areas Yes; Group 1 Pedgree of protection IP20 Ambient conditions IP20 Ambient temperature during operation -40 "C; = Tmin (incl. condensation/frost); start-up @ -25 "C • mix. -0 "C; = Tmix (max > +55 "C number of simultaneously switched-on digi "rults 7, digital outputs 5, analog inputs 2, analog outputs 2, analog outputs 2, onalog	between the channels	No
EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity action 12 6 1000-4-2 - Test voltage at air discharge 8 kV - Test voltage at contact discharge 6 kV Interference immunity to cable-borne interference 6 kV • Interference immunity on supply lines acc. to IEC 61000- 4.4 Yes • Interference immunity against voltage surge 9 (hterference immunity against voltage surge • Interference immunity against high-frequency radiation acc. to IEC 61000- 4.5 Yes Interference immunity against high-frequency radiation acc. to IEC 61000- 4.5 Yes Interference immunity against high-frequency radiation acc. to IEC 61000- 4.5 Yes Interference immunity against high-frequency radiation acc. to IEC 61000- 4.5 Yes Interference immunity against high-frequency radiation acc. to IEC 61000- 4.5 Yes Interference immunity against high-frequency radiation acc. to IEC 61000- 4.5 Yes Interference immunity against areas Yes; Group 1 • Limit class A, for use in nesidential areas Yes; When appropriate measures are used to ensure compliance with the for Class according to EN 55011 Degree and class of protection IP20 <td< td=""><td> between the channels, in groups of </td><td>2</td></td<>	 between the channels, in groups of 	2
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• 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 6 kV Interference immunity on supply lines acc. to IEC 61000- 4-4 Yes • Interference immunity on supply lines acc. to IEC 61000- 4-4 Yes • Interference immunity on supply lines acc. to IEC 61000- 4-4 Yes • Interference immunity against voltage surge • • Interference immunity against number of the status	Interference immunity against discharge of static electricity	
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— 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 against voltage surge • • Interference immunity against voltage surge • • Interference immunity against conducted variable disturbance induced by high-frequency fields Yes • 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 D protection IP20 Ambient conditions IP20 Ambient conditions • Free fall • • Fail height, max. 0.3 m; five times, in product package Ambient temperature during operation • • min. -40 °C; = Tmia; Tmax > +55 °C number of simultaneously switched-on digit inputs 7, digital outputs 7		
Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity against voltage surge • Interference immunity against conducted variable disturbance induced by high-frequency fields • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 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 for Class B according to EN 55011 Degree and class of protection IP20 Ambient conditions IP20 Free fall 0.3 m; five times, in product package Ambient temperature during operation -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C • max. 70 °C; = Tmax; Tmax > +55 °C number of simultaneously switched-on digin inputs 7, digital outputs 5, analog inputs 2, analog outputs 2 (no adjacent points) with horizontal mounting position; Tmax > +60 °C number of simultaneously switched-on digital inputs 7, digital outputs 5, analog inputs 2, analog inputs 7, analog inputs 7, digital outputs 5, analog inputs 7, analog inputs 7, analog inputs 7, analog inputs 7, ana	— Test voltage at air discharge	8 kV
 Interference immunity on supply lines acc. to IEC 61000- 4-4 Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity against colducted variable disturbance induced by high-frequency fields Interference immunity against high-frequency radiation acc. to IEC 61000- 4-5 Interference immunity against high-frequency radiation acc. to IEC 61000- 4-5 Interference immunity against high-frequency radiation acc. to IEC 61000- 4-5 Interference acc. to EN 55 011 Limit class A, for use in industrial areas Ves; Group 1 Limit class B, for use in residential areas Yes; When appropriate measures are used to ensure compliance with the for Class B according to EN 55011 Degree and class of protection IP degree of protection IP degree of protection IP 20 Ambient conditions Free fall Sample of Class B Frank (rink), max. Might times, in product package Ambient temperature during operation min. max. max. min. max. 	 Test voltage at contact discharge 	6 kV
4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Yes Interference immunity against voltage surge • Interference immunity against voltage surge • Interference immunity against conducted variable disturbance induced by high-frequency fields Yes Interference immunity against conducted variable disturbance induced by high-frequency fields Yes • Interference immunity against high-frequency radiation acc. to IEC 61000- 4-5 Yes Emission of radio interference acc. to EN 55 011 Yes; Group 1 • 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 for Class B according to EN 55011 Degree and class of protection IP20 Amblent conditions Free fall • Fall height, max. 0.3 m; five times, in product package Amblent temperature during operation -40 °C; = Tmix; Tmax > 455 °C number of simultaneously switched-on digital outputs 2, analog outputs 5, analog onputs 4, do °C number of simultaneously switched-on digital outputs 5, analog onputs 5, analog onp	Interference immunity to cable-borne interference	
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Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 Interference immunity against conducted variable disturbance induced by high-frequency fields • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Yes; Group 1 • Limit class of protection IP degree of protection IP degree of protection Free fall • Fall height, max. 0.3 m; five times, in product package Ambient temperature during operation • min. • mix. • mix.		Yes
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4-5 Interference immunity against conducted variable disturbance induced by high-frequency fields • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Yes; When appropriate measures are used to ensure compliance with the for Class B according to EN 55011 Degree and class of protection IP degree of protection IP degree of protection IP ree 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 70 °C; = Tmax; Tmax > +55 °C number of simultaneously switched-on digit inputs 7, digital outputs 5, analog inputs 2, analog outputs 2 (no adjacent points) with horizontal mounting position; Tmax > +60 °C number of simultaneously switched-on digit inputs 7, digital outputs 5, analog inputs 5, analog in	Interference immunity against voltage surge	
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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. • min. -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; Tmax > +55 °C number of simultaneously switched-on digit inputs 7, digital outputs 5, analog inputs 2, analog outputs 2 (no adjacent points) with horizontal mounting position; Tmax > +60 °C number of simultaneously switched-on digital inputs 7, digital outputs 5, analog inputs		
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Ambient temperature during operation • min. • max. • max. <	• Fall height, max.	0.3 m; five times, in product package
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	● max.	70 °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; Tmax > +60 °C number of simultaneously switched-on digital inputs 7, digital outputs 5, analog inputs 1,
• At cold restart, min25 °C	At cold restart, min.	-25 °C
Ambient temperature during storage/transportation	Ambient temperature during storage/transportation	

● min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	2 000 m
 Ambient air temperature-barometric pressure-altitude 	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
Relative humidity	
• With condensation, tested in accordance with IEC 60068-	100 %; RH incl. condensation/frost (no commissioning under condensation
2-38, max.	conditions)
/ibrations	
 Vibration resistance during operation acc. to IEC 60068- 2-6 	2 g (m/s ²) wall mounting, 1 g (m/s ²) DIN rail
 Operation, tested according to IEC 60068-2-6 	Yes
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
Resistance	
Coolants and lubricants	
 Resistant to commercially available coolants and 	Yes; Incl. diesel and oil droplets in the air
lubricants	
Use in stationary industrial systems	
 — to biologically active substances according to EN 60721-3-3 	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. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 — 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); *
 — to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
Against chemically active substances acc. to EN	Yes; Class 3 (excluding trichlorethylene)
60654-4	
 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	Yes; Class 2 for high reliability
61086	. co, c.do 2 for fight foldomy
 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
nfiguration / header	
configuration / programming / header	
Programming language — LAD	Yes
— EAD — FBD	Yes
— FBD — SCL	Yes
SCL programming / cycle time monitoring / header	100
	Yes
adjustable	100
mensions	420 mm
Vidth	130 mm
In Second	100 mm
leight	76
leight Depth eights	75 mm

last modified:

9/22/2023 🖸