SIEMENS

Data sheet

6ES7214-1AG31-0XB0



SIMATIC S7-1200, CPU 1214C, compact CPU, DC/DC/DC, onboard I/O: 14 DI 24 V DC; 10 DO 24 V DC; 2 AI 0-10 V DC, Power supply: DC 20.4-28.8V DC, Program/data memory 75 KB

General information	
Product type designation	CPU 1214C DC/DC/DC
Engineering with	
Programming package	STEP 7 V11 SP2 or higher
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Load voltage L+	
Rated value (DC)	24 V
 permissible range, lower limit (DC) 	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, max.	1.5 A; 24 V DC
Inrush current, max.	12 A; at 28.8 V
Output current	
for backplane bus (5 V DC), max.	1 600 mA; Max. 5 V DC for SM and CM
Encoder supply	
24 V encoder supply	
• 24 V	Permissible range: 20.4V to 28.8V
Power loss	
Power loss, typ.	12 W
Memory	
Work memory	
integrated	75 kbyte
expandable	No
Load memory	
integrated	4 Mbyte
Backup	
• present	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. CPU-blocks	2.5 µs; / instruction

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
OB	entire working memory can be used
OB	Limited only by DAM for each
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	
I/O address area	
Inputs	1 024 byte
Outputs	1 024 byte
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	oo amonur at 20 o
	A A cluster works all
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 current	
● for signal "1", typ.	1 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	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.	in groups of four 0.2 ms
— at "0" to "1", min. — at "0" to "1", max.	
	0.2 ms
— at "0" to "1", max.	0.2 ms
— at "0" to "1", max. for interrupt inputs	0.2 ms 12.8 ms
— at "0" to "1", max. for interrupt inputs — parameterizable	0.2 ms 12.8 ms
— at "0" to "1", max. for interrupt inputs — parameterizable for technological functions	0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3
— at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable	0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3
— at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length	0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz
 — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length shielded, max. unshielded, max. 	0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions
— at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length • shielded, max. • unshielded, max. Digital outputs	0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No
— at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length • shielded, max. • unshielded, max. Digital outputs Number of digital outputs	0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No
— at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length • shielded, max. • unshielded, max. Digital outputs Number of digital outputs • of which high-speed outputs	0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No
— at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length • shielded, max. • unshielded, max. Digital outputs Number of digital outputs • of which high-speed outputs Short-circuit protection	0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No 10 4; 100 kHz Pulse Train Output No; to be provided externally
— at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length • shielded, max. • unshielded, max. Digital outputs Number of digital outputs • of which high-speed outputs Short-circuit protection Limitation of inductive shutdown voltage to	0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No
— at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length • shielded, max. • unshielded, max. Digital outputs Number of digital outputs • of which high-speed outputs Short-circuit protection Limitation of inductive shutdown voltage to Switching capacity of the outputs	0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No 10 4; 100 kHz Pulse Train Output No; to be provided externally L+ (-48 V)
— at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length • shielded, max. • unshielded, max. Digital outputs Number of digital outputs • of which high-speed outputs Short-circuit protection Limitation of inductive shutdown voltage to	0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No 10 4; 100 kHz Pulse Train Output No; to be provided externally

Output valtage	
Output voltage	0.4 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
• for signal "0", max.	0.1 V; with 10 kOhm load
• for signal "1", min.	20 V
Output current	
for signal "1" rated value	0.5 A
for signal "0" residual current, max.	0.1 mA
Output delay with resistive load	
• "0" to "1", max.	1 µs
• "1" to "0", max.	5 µs
Switching frequency	
 of the pulse outputs, with resistive load, max. 	100 kHz
Relay outputs	
Number of relay outputs	0
Cable length	
• shielded, max.	500 m
unshielded, max.	150 m
Analog inputs	
Number of analog inputs	2
Input ranges	
• Voltage	Yes
Input ranges (rated values), voltages	163
• 0 to +10 V	Yes
	≥100k ohms
— Input resistance (0 to 10 V)	2 TOOK OTHINS
Cable length	400 toi-ted d inland
• shielded, max.	100 m; twisted and shielded
Analog outputs	
Number of analog outputs	0
Cable length	
• chicked may	100 m; shielded, twisted pair
shielded, max.	100 m, shielded, twisted pair
snielded, max. Analog value generation for the inputs	100 III, Silielded, twisted pail
	100 III, Silielded, twisted pail
Analog value generation for the inputs	10 bit
Analog value generation for the inputs Integration and conversion time/resolution per channel	
Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max.	10 bit
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable	10 bit Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder	10 bit Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders	10 bit Yes 625 μs
Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor	10 bit Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface	10 bit Yes 625 μs Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface Interface type	10 bit Yes 625 μs Yes PROFINET
Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface Interface type Isolated	10 bit Yes 625 μs Yes PROFINET Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface Interface type Isolated automatic detection of transmission rate	10 bit Yes 625 μs Yes PROFINET Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface Interface type Isolated automatic detection of transmission rate Autonegotiation	10 bit Yes 625 μs Yes PROFINET Yes Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing	10 bit Yes 625 μs Yes PROFINET Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types	10 bit Yes 625 μs Yes PROFINET Yes Yes Yes Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet)	10 bit Yes 625 μs Yes PROFINET Yes Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols	10 bit Yes 625 μs Yes PROFINET Yes Yes Yes Yes Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller	10 bit Yes 625 μs Yes PROFINET Yes Yes Yes Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols	10 bit Yes 625 μs Yes PROFINET Yes Yes Yes Yes Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller	10 bit Yes 625 μs Yes PROFINET Yes Yes Yes Yes Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller	10 bit Yes 625 μs Yes PROFINET Yes Yes Yes Yes Yes Yes Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller Protocols Supports protocol for PROFINET IO	10 bit Yes 625 µs Yes PROFINET Yes Yes Yes Yes Yes Yes Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor 1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller Protocols Supports protocol for PROFINET IO PROFIBUS	10 bit Yes 625 μs Yes PROFINET Yes Yes Yes Yes Yes Yes Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface	10 bit Yes 625 μs Yes PROFINET Yes Yes Yes Yes Yes Yes Yes Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) TCP/IP	10 bit Yes 625 μs Yes PROFINET Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)	10 bit Yes 625 μs Yes PROFINET Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) TCP/IP Open IE communication TCP/IP	10 bit Yes 625 μs Yes PROFINET Yes
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) TCP/IP Open IE communication	10 bit Yes 625 µs Yes Yes PROFINET Yes

Woh conver	
Web server	Voc
supportedUser-defined websites	Yes Yes
	Tes
Further protocols • MODBUS	Yes
Communication functions	165
S7 communication	V
• supported	Yes
• as server	Yes
• as client	Yes
Test commissioning functions	
Status/control	· ·
Status/control variable	Yes
• Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Forcing	Vac
• Forcing	Yes
Diagnostic buffer	Von
• present	Yes
Integrated Functions	
Counter	
Number of counters Counting frequency may	6
Counting frequency, max. Frequency management.	100 kHz
Frequency measurement	Yes
controlled positioning PID controller	Yes
	Yes 4
Number of pulse outputs	2
Number of pulse outputs Limit frequency (pulse)	100 kHz
Potential separation	100 M12
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	Yes
between the channels	No
between the channels, in groups of	1
Permissible potential difference	
between different circuits	500 V DC between 24 V DC and 5 V DC
EMC	COO V DO DELWEEN 27 V DO and O V DO
Interference immunity against discharge of static electricity • Interference immunity against discharge of static	Vec
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	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
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
Marine approval	Yes
Ambient conditions	
Free fall	
Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-20 °C
• max.	60 °C
 horizontal installation, min. 	-20 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-20 °C
vertical installation, max.	50 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
● max.	70 °C
Air pressure acc. to IEC 60068-2-13	
Operation, min.	795 hPa
 Operation, max. 	1 080 hPa
 Storage/transport, min. 	660 hPa
Storage/transport, max.	1 080 hPa
Altitude during operation relating to sea level	
Installation altitude, min.	-1 000 m
 Installation altitude, max. 	2 000 m
🕶 การเลกสแบบ สเมเนนธ, เกสร.	
	2000
Relative humidity	95 %; no condensation
Relative humidity • Operation, max.	
Relative humidity • Operation, max. Vibrations • Vibration resistance during operation acc. to IEC	95 %; no condensation
Relative humidity • Operation, max. Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
Relative humidity • Operation, max. Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
Relative humidity • Operation, max. Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
Relative humidity Operation, max. Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Pollutant concentrations SO2 at RH < 60% without condensation	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak
Relative humidity • Operation, max. Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
Relative humidity • Operation, max. Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
Relative humidity Operation, max. Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Pollutant concentrations SO2 at RH < 60% without condensation Configuration	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
Relative humidity Operation, max. Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Pollutant concentrations SO2 at RH < 60% without condensation Configuration Programming	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
Relative humidity Operation, max. Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Pollutant concentrations SO2 at RH < 60% without condensation Configuration Programming Programming language	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
Relative humidity Operation, max. Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Pollutant concentrations SO2 at RH < 60% without condensation Configuration Programming Programming language LAD	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
Relative humidity • Operation, max. Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation Configuration Programming Programming Programming language — LAD — FBD	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes Yes
Relative humidity • Operation, max. Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation Configuration Programming Programming language — LAD — FBD — SCL	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes Yes
Relative humidity Operation, max. Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Pollutant concentrations SO2 at RH < 60% without condensation Configuration Programming Programming language LAD FBD SCL Cycle time monitoring adjustable	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes Yes Yes Yes
Relative humidity Operation, max. Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Pollutant concentrations SO2 at RH < 60% without condensation Configuration Programming Programming Programming language — LAD — FBD — SCL Cycle time monitoring adjustable Dimensions	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes Yes Yes Yes
Relative humidity Operation, max. Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Pollutant concentrations SO2 at RH < 60% without condensation Configuration Programming Programming language LAD FBD SCL Cycle time monitoring adjustable Dimensions Width	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes Yes Yes Yes Yes
Relative humidity Operation, max. Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Pollutant concentrations SO2 at RH < 60% without condensation Configuration Programming Programming language LAD FBD SCL Cycle time monitoring adjustable Dimensions Width Height	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes Yes Yes Yes Your distribution of the shock 15 g (peak value), duration 11 ms 110 mm 100 mm
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Relative humidity Operation, max. Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Pollutant concentrations SO2 at RH < 60% without condensation Configuration Programming Programming language LAD FBD SCL Cycle time monitoring adjustable Dimensions Width Height Depth	95 %; no condensation 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes Yes Yes Yes Your man description of the shock 15 g (peak value), duration 11 ms The shock 15 g (peak value) and the