SIEMENS

Data sheet

6ES7214-1AG40-0XB0

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 100 KB



General information	
Product type designation	CPU 1214C DC/DC/DC
Firmware version	V4.2
Engineering with	
Programming package	STEP 7 V14 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
Reverse polarity protection	Yes
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 (rated value)	500 mA; CPU only
Current consumption, max.	1 500 mA; CPU with all expansion modules

Inrush current, max.	12 A; at 28.8 V
	0.5 A ² ·s
Output current	4 COO to A. May, E.V. D.C. for CM and CM
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	L+ minus 4 V DC min.
Power loss	
Power loss, typ.	12 W
M	
Memory Work memory	
• integrated	100 kbyte
expandable	No
Load memory	
• integrated	4 Mbyte
 Plug-in (SIMATIC Memory Card), max. 	with SIMATIC memory card
Backup	,
• present	Yes
maintenance-free	Yes
without battery	Yes
·	
CPU processing times	
for bit operations, typ.	0.08 μs; / instruction
for word operations, typ.	1.7 µs; / instruction
for floating point arithmetic, typ.	2.3 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	resultation, the entire working memory can be used
• Number, max.	Limited only by RAM for code
- Number, max.	
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags),	10 kbyte
max.	
Number, max.	8 kbyte; Size of bit memory address area
Local data	5 may to, to be on the morning additional area
• per priority class, max.	16 kbyte; Priority class 1 (program cycle): 16 KB, priority class 2
por priority diado, max.	to 26: 6 KB
4.11	
Address area Process image	
1 100ess illiage	

• 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
Distaliand	
Digital inputs Number of digital inputs	14; Integrated
	6; HSC (High Speed Counting)
 of which inputs usable for technological functions 	o, 1130 (riigii Speed Codiitiiig)
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	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	Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 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
of which high-speed outputs	4; 100 kHz Pulse Train Output
Limitation of inductive shutdown voltage to	L+ (-48 V)
Switching capacity of the outputs	
• with resistive load, max.	0.5 A

• on lamp load, max.	5 W
Output voltage	
• 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 inpute	
Analog inputs Number of analog inputs	2
Input ranges	_
• 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	0
Number of analog outputs	0
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
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
1. Interface	
Interface type	PROFINET
Physics	Ethernet

automatic detection of transmission rate Autocapostation Autocarossing Nes Autocarossing Number of ports Integrated switch PROFINET IO Controller PROFINET IO Device Similar (Communication Yes No PROFINET IO Controller Transmission rate, max. Integrated with the server PROFINET IO Controller Transmission rate, max. Transm	Isolated	Yes
Autoregotiation Yes Autoressing Yes Interface types • Number of ports • integrated switch No Protocols • PROFINET IO Controller Yes • SIMATIC communication Yes • Web server Yes • Media redundancy No PROFINET IO Controller • Transmission rate, max. 100 Mbit/s Services - PG/OP communication Yes - PG/OP communication Yes - PG/OP communication Yes - No - PROFINET IO Controller • Transmission rate, max. 100 Mbit/s Services - PG/OP communication Yes - No		
Autocrossing Yes Interface types		Yes
• Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller • Transmission rate, max. PROFINET IO Controller • Transmission rate, max. □ 100 Mbit/s Services - PG/OP communication - S7 routing - S7 routing - IRT - MRP - MRP - MRP - MRP - MRPD - PROFINET got devices with prioritized startup, max. - Number of IO devices with prioritized startup, max. - Number of connectable IO Devices, max Number of connectable IO Devices, max Activation/deactivation of IO Devices - Number of IO Devices that can be simultaneously activated/deactivated, max Updating time PROFINET IO Device Services PROFINET IO Device Services PROFINET IO Device Services PG/OP communication Yes - PG/OP communication The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services - PG/OP communication Yes		Yes
integrated switch Protocols PROFINET IO Controller PROFINET IO Device PROFINET IO Device PROFINET IO Device Popel E communication Web server Media redundancy PROFINET IO Controller Transmission rate, max. PROFINET IO Controller Transmission rate, max. Services PG/OP communication PS 7 routing PS 7 routing PS 8 ROUTING	Interface types	
Protocols PROFINET IO Device PROFINET IO Device PROFINET IO Device SIMATIC communication Pes Open IE communication Profinet IO Controller Transmission rate, max. PEG/OP communication Pes Profinet Controller Profine Controller Profinet Controller Profinet Controller Profine Controller Profinet Co	Number of ports	1
PROFINET IO Controller PROFINET IO Device PROFINET IO Device SIMATIC communication Pes Open IE communication Pes Media redundancy No PROFINET IO Controller Transmission rate, max. 100 Mbit/s Services PG/OP communication Pes Pes PG/OP communication Pes Pes PG/OP communication Pes Pes Pointized startup Profitized startup Profitized startup No No Profitized startup Per Pumber of IO devices with prioritized Startup, max. Number of connectable IO Devices, max. Number of connectable IO Devices, max. Number of connectable IO Devices for RT, max. Pumber of IO Devices that can be simultaneously activated/deactivated, max. Pupdating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services PROFINET IO Device Services PROFINET IO Devices Services PROFINET IO Devices PS PROFINET IO D	• integrated switch	No
PROFINET IO Device SIMATIC communication Open IE communication Web server Media redundancy PROFINET IO Controller Transmission rate, max. Services PG/OP communication Yes No PROFINET IO Controller No PROFINET OPEN No PROFICE COMMUNICATION NO PROFILE COMMUNICATION NO PROFILE COMMUNICATION NO PROFICE COMMUNICATION NO NO PROFICE COMMUNICATION NO PROFICE COMMUNICATION NO NO PROFICE COMMUNICATION NO N	Protocols	
SIMATIC communication Open IE communication Yes Web server Media redundancy No PROFINET IO Controller Transmission rate, max. Services — PG/OP communication Yes — PG/OP communication Yes — PG/OP communication Yes — Isochronous mode — Open IE communication Yes — IRT — MRP — MRP — MRP — MRPD — No — PROFlenergy — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Number of connectable IO Devices for RT, max. — of which in line, max. — Activation/deactivation of IO Devices — Number of IO Devices that can be simultaneously activated/deactivated, max. — Updating time PROFINET IO Device Services — PG/OP communication Yes Yes PROFINET IO Device Services — PG/OP communication Yes	PROFINET IO Controller	Yes
Open IE communication Web server Media redundancy No PROFINET IO Controller Transmission rate, max. Services PG/OP communication Yes No PGOP communication Yes Services PGOP communication Yes Services PGOP li E communication Yes No Open IE communication Yes IRT No MRP MRP No PROFlenergy No PROFlenergy No Prioritized startup Prioritized startup Number of IO devices with prioritized startup, max. Number of connectable IO Devices, max. Number of connectable IO Devices for RT, max. Of which in line, max. Activation/deactivation of IO Devices Number of IO Devices that can be simultaneously activated/deactivated, max. Updating time PROFINET IO Device Services PG/OP communication Yes	PROFINET IO Device	Yes
Web server Media redundancy No PROFINET IO Controller Transmission rate, max. Services - PG/OP communication - S7 routing - Isochronous mode - Open IE communication - RT - MRP - MRP - MRPD - PROFlenergy - Prioritized startup - Prioritized startup - Number of IO devices with prioritized startup, max Number of connectable IO Devices, max Of which in line, max Activation/deactivation of IO Devices - Number of IO Devices that can be simultaneously activated/deactivated, max Updating time PROFINET IO Device Services - PG/OP communication Yes 100 Mbit/s Yes - No - No - Pes - No	SIMATIC communication	Yes
Media redundancy PROFINET IO Controller Transmission rate, max. Services — PG/OP communication — S7 routing — Isochronous mode — Open IE communication — MRP — MRP — MRPD — PG/OP lowing — Proiritized startup — Proiritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Of which in line, max. — Activation/deactivation of IO Devices — Number of IO Devices that can be simultaneously activated/deactivated, max. — Updating time PROFINET IO Device Services — PG/OP communication Yes 100 Mbit/s Yes No 100 Mbit/s Yes No 100 Mbit/s Yes No 100 Mbit/s Yes No 100 Mbit/s Yes 100 Mbit/s 100 Mit/s 100 Mbit/s 100 Mit/s 100	Open IE communication	Yes
PROFINET IO Controller • Transmission rate, max. 100 Mbit/s Services - PG/OP communication Yes - S7 routing Yes - Isochronous mode No - Open IE communication Yes - IRT No - MRP No - MRPD No - PROFIenergy No - Prioritized startup Yes - Number of IO devices with prioritized startup, max Of which in line, max Activation/deactivation of IO Devices Yes - Number of IO Devices that can be simultaneously activated/deactivated, max Updating time PROFINET IO Device Services - PG/OP communication Yes 100 Mbit/s 100 Mit/s 100 Mit/s 100 Mit/s 100 Mit/s 100 Mit/s 100 Mbit/s 100 Mit/s 100 Mit/s 100 Mi	Web server	Yes
● Transmission rate, max. Services	Media redundancy	No
Services	PROFINET IO Controller	
PG/OP communication PS7 routing S7 routing Placehronous mode No Open IE communication Yes IRT No MRP MRP No MRPD PROFlenergy Prioritized startup Prioritized startup Number of IO devices with prioritized startup, max. Number of connectable IO Devices, max. Number of connectable IO Devices for RT, max. Of which in line, max. Activation/deactivation of IO Devices Namber of IO Devices that can be simultaneously activated/deactivated, max. Updating time PROFINET IO Device Services PG/OP communication Yes	Transmission rate, max.	100 Mbit/s
S7 routing Isochronous mode Open IE communication Yes IRT No MRP No MRP No PROFlenergy No Prioritized startup Prioritized startup Number of IO devices with prioritized startup, max. Number of connectable IO Devices, max. Number of connectable IO Devices for RT, max. Of which in line, max. Activation/deactivation of IO Devices Number of IO Devices that can be simultaneously activated/deactivated, max. Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services PG/OP communication Yes	Services	
- Isochronous mode	— PG/OP communication	Yes
- Open IE communication - IRT - MRP - MRP - MRPD - MRPD - PROFlenergy - Prioritized startup - Number of IO devices with prioritized startup, max Number of connectable IO Devices, max Number of connectable IO Devices for RT, max Number of connectable IO Devices for RT, max of which in line, max Activation/deactivation of IO Devices - Number of IO Devices that can be simultaneously activated/deactivated, max Updating time - The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services - PG/OP communication Yes	— S7 routing	Yes
- IRT No - MRP No - MRPD No - PROFINET IO Devices - PG/OP communication - IRT No N	— Isochronous mode	No
- MRPD No - MRPD No - PROFlenergy No - Prioritized startup Yes - Number of IO devices with prioritized startup, max Number of connectable IO Devices, max. 16 - Number of connectable IO Devices for RT, max of which in line, max. 16 - Activation/deactivation of IO Devices Yes - Number of IO Devices that can be simultaneously activated/deactivated, max Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services - PG/OP communication Yes	— Open IE communication	Yes
MRPD PROFInergy Prioritized startup Number of IO devices with prioritized startup, max Number of connectable IO Devices, max Number of connectable IO Devices for RT, max of which in line, max of which in line, max Activation/deactivation of IO Devices Number of IO Devices that can be simultaneously activated/deactivated, max Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services PG/OP communication Yes	— IRT	No
PROFlenergy Prioritized startup Prioritized startup Number of IO devices with prioritized startup, max. Number of connectable IO Devices, max. Number of connectable IO Devices for RT, max. of which in line, max. Activation/deactivation of IO Devices Number of IO Devices that can be simultaneously activated/deactivated, max. Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services PG/OP communication Yes	— MRP	No
— Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Number of connectable IO Devices for RT, max. — of which in line, max. — of which in line, max. — Activation/deactivation of IO Devices — Number of IO Devices that can be simultaneously activated/deactivated, max. — Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services — PG/OP communication Yes	— MRPD	No
 Number of IO devices with prioritized startup, max. Number of connectable IO Devices, max. Number of connectable IO Devices for RT, max. of which in line, max. Activation/deactivation of IO Devices Number of IO Devices that can be simultaneously activated/deactivated, max. Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services — PG/OP communication Yes	— PROFlenergy	No
startup, max. — Number of connectable IO Devices, max. — Number of connectable IO Devices for RT, max. — of which in line, max. — of which in line, max. — Activation/deactivation of IO Devices — Number of IO Devices that can be simultaneously activated/deactivated, max. — Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services — PG/OP communication Yes	 Prioritized startup 	Yes
 Number of connectable IO Devices, max. Number of connectable IO Devices for RT, max. of which in line, max. Activation/deactivation of IO Devices Number of IO Devices that can be simultaneously activated/deactivated, max. Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services PG/OP communication Yes	 Number of IO devices with prioritized 	16
— Number of connectable IO Devices for RT, max. — of which in line, max. — Activation/deactivation of IO Devices — Number of IO Devices that can be simultaneously activated/deactivated, max. — Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services — PG/OP communication Yes	startup, max.	
max. — of which in line, max. — Activation/deactivation of IO Devices — Number of IO Devices that can be simultaneously activated/deactivated, max. — Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services — PG/OP communication Yes	 Number of connectable IO Devices, max. 	16
- of which in line, max. - Activation/deactivation of IO Devices - Number of IO Devices that can be simultaneously activated/deactivated, max. - Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services - PG/OP communication Yes	 Number of connectable IO Devices for RT, 	16
— Activation/deactivation of IO Devices — Number of IO Devices that can be simultaneously activated/deactivated, max. — Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services — PG/OP communication Yes		
— Number of IO Devices that can be simultaneously activated/deactivated, max. — Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services — PG/OP communication Yes	— of which in line, max.	
simultaneously activated/deactivated, max. — Updating time The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services — PG/OP communication Yes	 Activation/deactivation of IO Devices 	
communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data. PROFINET IO Device Services — PG/OP communication Yes		8
PROFINET IO Device Services — PG/OP communication Yes	— Updating time	communication component set for PROFINET IO, on the number
— PG/OP communication Yes	PROFINET IO Device	
	Services	
— S7 routing	— PG/OP communication	Yes
	— S7 routing	Yes

— Isochronous mode	No
— Open IE communication	Yes
— IRT	No
— MRP	No
— MRPD	No
— PROFlenergy	Yes
— Shared device	Yes
— Number of IO Controllers with shared	2
device, max.	

Protocols		
Supports protocol for PROFINET IO	Yes	
PROFIBUS	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required	
AS-Interface	Yes; CM 1243-2 required	
Protocols (Ethernet)		
• TCP/IP	Yes	
• DHCP	No	
• SNMP	Yes	
• DCP	Yes	
• LLDP	Yes	
Open IE communication		
• TCP/IP	Yes	
— Data length, max.	8 kbyte	
• ISO-on-TCP (RFC1006)	Yes	
— Data length, max.	8 kbyte	
• UDP	Yes	
— Data length, max.	1 472 byte	
Web server		
• supported	Yes	
 User-defined websites 	Yes	
Further protocols		
• MODBUS	Yes	

Communication functions	
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes
 User data per job, max. 	See online help (S7 communication, user data size)
Number of connections	
• overall	16; dynamically

Test commissioning functions

Status/control

- 01 1 1 1 1 1 1	Yes
Status/control variable	
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Egraina	Counters
Forcing	Yes
• Forcing	165
Diagnostic buffer	V
• present	Yes
Traces	
 Number of configurable Traces 	2
 Memory size per trace, max. 	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
• MAINT LED	Yes
Integrated Functions	
Number of counters	6
Counting frequency (counter) max.	100 kHz
Frequency measurement	Yes
controlled positioning	Yes
Number of position-controlled positioning axes, max.	8
Number of positioning axes via pulse-direction	4; With integrated outputs
interface	
PID controller	Yes
Number of alarm inputs	4
Number of pulse outputs	4
Limit frequency (pulse)	100 kHz
Potential separation	
Potential separation digital inputs	
Potential separation digital inputs	No
• 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
EMC	
Interference immunity against discharge of static electri	city
Interference immunity against discharge of	Yes
static electricity acc. to IEC 61000-4-2	
Test voltage at air discharge	8 kV
Test voltage at contact discharge	6 kV
-	

late of a constant and the temporal attentions and	
Interference immunity to cable-borne interference	Ver
 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	
• on the supply lines acc. to IEC 61000-4-5	Yes
Interference immunity against conducted variable distu	rbance 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	
Degree of protection acc. to EN 60529	
● IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	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; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical
 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
Relative humidity	
Operation, max.	95 %; no condensation
Vibrations	
 Vibration resistance during operation acc. to IEC 60068-2-6 	2 g (m/s²) wall mounting, 1 g (m/s²) 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
Pollutant concentrations	
• SO2 at RH < 60% without condensation	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
Configuration	
Programming	
Programming language	
— LAD	Yes
— FBD	Yes
— SCL	Yes
Know-how protection	
User program protection/password protection	Yes
Copy protection	Yes
Block protection	Yes
Access protection	
Protection level: Write protection	Yes
 Protection level: Read/write protection 	Yes
 Protection level: Complete protection 	Yes
Cycle time monitoring	
adjustable	Yes
Dimensions	
Width	110 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	415 g
last modified:	08/29/2019