## **Data sheet**

6ES7214-1HG40-0XB0



SIMATIC S7-1200, CPU 1214C, compact CPU, DC/DC/relay, onboard I/O: 14 DI 24 V DC; 10 DO relay 2 A; 2 AI 0-10 V DC, power supply: DC 20.4-28.8 V DC, program/data memory 150 KB

General information	
Product type designation	CPU 1214C DC/DC/relay
Firmware version	V4.6
Engineering with	
<ul> <li>Programming package</li> </ul>	STEP 7 V18 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+	
<ul> <li>Rated value (DC)</li> </ul>	24 V
<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V
<ul> <li>permissible range, upper limit (DC)</li> </ul>	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
l²t	0.8 A <sup>2</sup> ·s
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	L+ minus 4 V DC min.
Power loss	
Power loss, typ.	12 W
Memory	
Work memory	
integrated	150 kbyte
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, tup	2.3 µs; / instruction
for floating point arithmetic, typ.  CPU-blocks	2.3 ps, / 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 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.	14 kbyte
Flag	
• Size, max.	8 kbyte; Size of bit memory address area
Local data	
per priority class, max.	16 kbyte; Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB
Address area	
Process image	
Inputs, adjustable	1 kbyte
Outputs, adjustable  Landware configuration	1 kbyte
Hardware configuration	2 comm. modulos, 1 signal hoard, 2 signal modulos
Number of modules per system, max.  Time of day	3 comm. modules, 1 signal board, 8 signal modules
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	0.2 mg 0.4 mg 0.0 mg 4.6 mg 2.2 mg 6.4 mg and 42.0 mg calcadable in
— 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
Cable length	kHz
Cable length  • shielded, max.	500 m; 50 m for technological functions
snielded, max.     unshielded, max.	300 m; for technological functions: No
Digital outputs	ooo iii, ioi tooiiilologioai fallottolio. No
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.
Relay outputs	
<ul> <li>Number of relay outputs</li> </ul>	10
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000
Cable length	

a phialded many	F00
• shielded, max.	500 m
• unshielded, max.	150 m
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	
Number of analog outputs	0
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	10 bit
<ul> <li>Integration time, parameterizable</li> </ul>	Yes
<ul> <li>Conversion time (per channel)</li> </ul>	625 µs
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
1. Interface	
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
RJ 45 (Ethernet)	Yes
Number of ports	1
integrated switch	No
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
SIMATIC communication	Yes
Open IE communication	Yes; Optionally also encrypted
Web server	Yes
Media redundancy	No
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	100 MBIO
— PG/OP communication	Yes; encryption with TLS V1.3 pre-selected
Isochronous mode	No
— IRT	No
— PROFlenergy	No
Prioritized startup	Yes
— Prioritized startup  — Number of IO devices with prioritized startup, max.	16
Number of connectable IO Devices, max.	16
Number of connectable IO Devices, max.      Number of connectable IO Devices for RT, max.	16
	16
<ul><li>— of which in line, max.</li><li>— Activation/deactivation of IO Devices</li></ul>	Yes
	Yes 8
<ul> <li>Number of IO Devices that can be simultaneously activated/deactivated, max.</li> </ul>	
— 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	or configured additional
Services	
— PG/OP communication	Vec. encryption with TLS V/1.2 are colocted
	Yes; encryption with TLS V1.3 pre-selected
— Isochronous mode	No No
— IRT	No

— PROFlenergy	Yes
— 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 (master) or CM 1242-5 (slave) required
OPC UA	Yes; OPC UA Server
AS-Interface	Yes; CM 1243-2 required
Protocols (Ethernet)	res, ON 1240-2 required
TCP/IP	Yes
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
	tes
Redundancy mode	
Media redundancy	No
— MRP	No No
— MRPD	No
SIMATIC communication	Vee
• S7 routing	Yes
Open IE communication	V
• 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
OPC UA	
<ul> <li>Runtime license required</li> </ul>	Yes; "Basic" license required
OPC UA Server	Yes; data access (read, write, subscribe), method call, runtime license required
<ul> <li>Application authentication</li> </ul>	Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256
<ul><li>User authentication</li></ul>	"anonymous" or by user name & password
<ul><li>Number of sessions, max.</li></ul>	10
<ul> <li>Number of subscriptions per session, max.</li> </ul>	5
<ul><li>— Sampling interval, min.</li></ul>	100 ms
— Publishing interval, min.	200 ms
<ul> <li>Number of server methods, max.</li> </ul>	20
<ul> <li>Number of monitored items, recommended max.</li> </ul>	1 000
<ul> <li>Number of server interfaces, max.</li> </ul>	2
<ul> <li>Number of nodes for user-defined server interfaces,</li> </ul>	2 000
max.	
Further protocols	
• MODBUS	Yes
communication functions / header	
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	PG Connections: 4 reserved / 4 max; HMI Connections: 12 reserved / 18 max; S7 Connections: 8 reserved / 14 max; Open User Connections: 8 reserved / 14 max; Web Connections: 2 reserved / 30 max; OPC UA Connections: 0 reserved / 10 max; Total Connections: 34 reserved / 64 max
Test commissioning functions	
Status/control	
Status/control variable	Yes

<ul> <li>Variables</li> </ul>	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Forcing	inpute outpute, memory site, 556, alouisation 1700, amore, countered
• Forcing	Yes
Diagnostic buffer	Tes
	Ves
• 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	
Counter	
<ul> <li>Number of counters</li> </ul>	6
<ul> <li>Counting frequency, max.</li> </ul>	100 kHz
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	
	500V AC for 1 minute
Potential separation digital inputs     Potential separation digital inputs	
between the channels, in groups of  Petertial approximation digital outside.	1
Potential separation digital outputs	Delevie
Potential separation digital outputs	Relays
between the channels	No
between the channels, in groups of	2
EMC	
Interference immunity against discharge of static electricity	
<ul> <li>Interference immunity against discharge of static</li> </ul>	Yes
electricity acc. to IEC 61000-4-2	
	8 kV
electricity acc. to IEC 61000-4-2	
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge	8 kV
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge	8 kV
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge  Interference immunity to cable-borne interference  • Interference immunity on supply lines acc. to IEC 61000-	8 kV 6 kV
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge  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-	8 kV 6 kV Yes
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge  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	8 kV 6 kV Yes
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5	8 kV 6 kV Yes Yes
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-	8 kV 6 kV Yes Yes
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • Interference immunity against high-frequency radiation	8 kV 6 kV  Yes  Yes  Yes  Iced by high-frequency fields
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6  Emission of radio interference acc. to EN 55 011	8 kV 6 kV  Yes  Yes  Yes  uced by high-frequency fields Yes
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6	8 kV 6 kV  Yes  Yes  Yes  Iced by high-frequency fields
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • 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	8 kV 6 kV  Yes  Yes  Yes  Yes  Iced by high-frequency fields  Yes  Yes; Group 1  Yes; When appropriate measures are used to ensure compliance with the limits
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • 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 of protection	8 kV 6 kV  Yes  Yes  Yes  Yes  Iced by high-frequency fields  Yes  Yes; Group 1  Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • 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  Degree and class of protection  IP degree of protection	8 kV 6 kV  Yes  Yes  Yes  Yes  Iced by high-frequency fields  Yes  Yes; Group 1  Yes; When appropriate measures are used to ensure compliance with the limits
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • 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  Degree and class of protection  IP degree of protection  Standards, approvals, certificates	8 kV 6 kV  Yes  Yes  Yes  Yes  Iced by high-frequency fields  Yes  Yes; Group 1  Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • 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  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  CE mark	8 kV 6 kV  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • 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  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  CE mark  UL approval	8 kV 6 kV  Yes  Yes  Yes  Yes  Yes  Yes  Yes; Group 1  Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011  IP20  Yes  Yes
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • 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  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  CE mark  UL approval  cULus	8 kV 6 kV  Yes  Yes  Yes  Yes  Yes  Yes; Group 1  Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011  IP20  Yes  Yes  Yes
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge — Test voltage at contact discharge  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 and supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • 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  • Limit class of protection  IP degree of protection  Standards, approvals, certificates  CE mark  UL approval  CULus  FM approval	8 kV 6 kV  Yes  Yes  Yes  Yes  Iced by high-frequency fields  Yes; Group 1  Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011  IP20  Yes  Yes  Yes  Yes  Yes  Yes
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge — Test voltage at contact discharge  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 on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • 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  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  CE mark  UL approval  cULus  FM approval  RCM (formerly C-TICK)	8 kV 6 kV  Yes  Yes  Yes  Yes  Yes; Group 1  Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011  IP20  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
electricity acc. to IEC 61000-4-2  — Test voltage at air discharge — Test voltage at contact discharge  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 and supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance indu  • 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  • Limit class of protection  IP degree of protection  Standards, approvals, certificates  CE mark  UL approval  CULus  FM approval	8 kV 6 kV  Yes  Yes  Yes  Yes  Iced by high-frequency fields  Yes; Group 1  Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011  IP20  Yes  Yes  Yes  Yes  Yes  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
<ul> <li>horizontal installation, min.</li> </ul>	-20 °C
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-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
<ul> <li>Operation, max.</li> </ul>	1 080 hPa
<ul> <li>Storage/transport, min.</li> </ul>	660 hPa
Storage/transport, max.	1 080 hPa
Altitude during operation relating to sea level	
<ul> <li>Installation altitude, min.</li> </ul>	-1 000 m
<ul> <li>Installation altitude, max.</li> </ul>	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Relative humidity	
Operation, max.	95 %; no condensation
Vibrations	
<ul> <li>Vibration resistance during operation acc. to IEC 60068- 2-6</li> </ul>	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 / header	
configuration / programming / header	
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 of confidential configuration data	Yes
Protection level: Write protection	Yes
Protection level: Read/write protection	Yes
Protection level: Complete protection	Yes
programming / cycle time monitoring / header	
adjustable	Yes
Dimensions	
Width	110 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	435 g
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