## 6ES7215-1AG40-0XB0

CPU 1215C, DC/DC/DC, 14DI/10DO/2AI/2AO

## Technical data



SIMATIC S7-1200, CPU 1215C, compact CPU, DC/DC/DC, 2 PROFINET ports, onboard I/O: 14 DI 24 V DC; 10 DO 24 V DC; 0.5A; 2 AI 0-10 V DC, 2 AO 0-20 mA DC, Power supply: DC 20.4-28.8V DC, Program/data memory 125 KB

CPU 1215C DC/DC/DC
V4.4
STEP 7 V16 or higher
Yes
20.4 V
28.8 V
Yes
24 V
20.4 V
28.8 V
500 mA
1 500 mA; CPU with all expansion modules
12 A; at 28.8 V DC
0.5 A <sup>2</sup> ·s
1 600 mA; Max. 5 V DC for SM and CM
L+ minus 4 V DC min.
E- mindo i V Bo min.
12 W
12 17
125 kbyte
No No
INO
4 Mbyte
with SIMATIC memory card
with Silviano memory card
Yes
Yes
Yes
les
0.00 up. / instruction
0.08 μs; / instruction 1.7 μs; / instruction
2.3 µs; / instruction
DDs FCs FDs sourters and timeses The continuous to the first the continuous to the c
DBs, FCs, FBs, counters and timers. The maximum number of addressable blocks rang from 1 to 65535. There is no restriction, the entire working memory can be used
Limited only by RAM for code
10 kbyte
8 kbyte; Size of bit memory address area
o may to, the or attended and a

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	
<ul> <li>Hardware clock (real-time)</li> </ul>	Yes
Backup time	480 h; Typical
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	14
— up to 40 °C, max.  Input voltage	14
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	v.
— 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.	500 m; 50 m for technological functions 300 m; for technological functions: No
Digital outputs	300 III, for technological functions. No
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.  Output delay with resistive load	0.1 mA
"0" to "1", max.	1 μs
• "1" to "0", max.	τ μs 5 μs
Switching frequency	υμο
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	V <sub>e</sub> .
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	≥100k ohms
Cable length  • shielded, max.	100 m; twisted and shielded
Analog outputs	100 III, twisted and sincluded
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	
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	10 bit

Encoder	
Connectable encoders	
2-wire sensor	Yes
1. Interface	
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
RJ 45 (Ethernet)	Yes
<ul> <li>Number of ports</li> </ul>	2
<ul><li>integrated switch</li></ul>	Yes
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
<ul> <li>SIMATIC communication</li> </ul>	Yes
Open IE communication	Yes; Optionally also encrypted
Web server	Yes
Media redundancy	Yes; as MRP client
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
— PG/OP communication	Yes
— Isochronous mode	No
— IRT	No
— PROFlenergy	No
— Prioritized startup	Yes
Number of IO devices with prioritized startup, max.	16
Number of routevices with prioritized startup, max.      Number of connectable IO Devices, max.	16
Number of connectable IO Devices, max.      Number of connectable IO Devices for RT, max.	16
— of which in line, max.	16
— Activation/deactivation of IO Devices	Yes
	8
<ul> <li>Number of IO Devices that can be simultaneously activated/deactivated, max.</li> </ul>	8
— Updating time	The minimum value of the update time also depends on the communication component set
opuating time	for PROFINET IO, on the number of IO devices and the quantity of configured user data.
PROFINET IO Device	
Services	
— PG/OP communication	Yes
— Isochronous mode	No
— IRT	No
— PROFlenergy	Yes
— Shared device	Yes
<ul> <li>Number of IO Controllers with shared device, max</li> </ul>	2
Number of IO Controllers with shared device, max.  Protocols	2
Protocols	
Protocols Supports protocol for PROFINET IO	Yes
Protocols Supports protocol for PROFINET IO PROFIBUS	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface	Yes
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)  • TCP/IP	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required Yes
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)  • TCP/IP • DHCP	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)  • TCP/IP • DHCP • SNMP	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)  • TCP/IP • DHCP • SNMP • DCP	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)  • TCP/IP • DHCP • SNMP • DCP • LLDP Redundancy mode	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode Media redundancy	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)  • TCP/IP • DHCP • SNMP • DCP • LLDP  Redundancy mode  Media redundancy — MRP — MRPD	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes Yes About the state of th
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes Yes About the state of th
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.  • ISO-on-TCP (RFC1006)	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes Yes  Yes A MRP client No  Yes  Yes 8 kbyte Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.  • ISO-on-TCP (RFC1006)  — Data length, max.	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes  Yes  A kbyte Yes 8 kbyte Yes 8 kbyte
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.  • ISO-on-TCP (RFC1006)  — Data length, max.	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes  Yes  A kbyte Yes  8 kbyte Yes  8 kbyte Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.  • UDP  — Data length, max.	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes  Yes  A kbyte Yes  8 kbyte Yes  8 kbyte Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • \$7 routing  Open IE communication  • TCP/IP  — Data length, max.  • UDP  — Data length, max.  • UDP  — Data length, max.  Web server	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes Yes Yes  Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.  • ISO-on-TCP (RFC1006)  — Data length, max.  • UDP  — Data length, max.  Web server  • supported	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes Yes  Yes  Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.  • ISO-on-TCP (RFC1006)  — Data length, max.  • UDP  — Data length, max.  Web server  • supported  • User-defined websites	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes Yes  Yes  Yes
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.  • ISO-on-TCP (RFC1006)  — Data length, max.  • UDP  — Data length, max.  Web server  • supported  • User-defined websites  OPC UA	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes Yes  Yes 4 kbyte Yes 8 kbyte Yes 8 kbyte Yes 1 472 byte
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP • SNMP • DCP • LLDP  Redundancy mode  Media redundancy — MRP — MRPD  SIMATIC communication • \$7 routing  Open IE communication • TCP/IP — Data length, max. • ISO-on-TCP (RFC1006) — Data length, max. • UDP — Data length, max.  Veb server • supported • User-defined websites  OPC UA • Runtime license required	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes  Yes 4 kbyte Yes 8 kbyte Yes 1 472 byte  Yes Yes Yes
Protocols  Supports protocol for PROFINET IO PROFIBUS  AS-Interface Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.  • ISO-on-TCP (RFC1006)  — Data length, max.  • UDP  — Data length, max.  Web server  • supported  • User-defined websites  OPC UA  • Runtime license required  • OPC UA Server	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes  Yes 4 kbyte Yes 8 kbyte Yes 8 kbyte Yes 1 472 byte  Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.  • ISO-on-TCP (RFC1006)  — Data length, max.  • UDP  — Data length, max.  • UDP  — Data length, max.  Web server  • supported  • User-defined websites  OPC UA  • Runtime license required  • OPC UA Server  — Number of sessions, max.  — Number of accessible variables, max.	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes  Yes 4 kbyte Yes 8 kbyte Yes 8 kbyte Yes 1 472 byte  Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  • TCP/IP  • DHCP  • SNMP  • DCP  • LLDP  Redundancy mode  Media redundancy  — MRP  — MRPD  SIMATIC communication  • S7 routing  Open IE communication  • TCP/IP  — Data length, max.  • ISO-on-TCP (RFC1006)  — Data length, max.  • UDP  — Data length, max.  Web server  • supported  • User-defined websites  OPC UA  • Runtime license required  • OPC UA Server  — Number of sessions, max.	Yes Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; CM 1243-2 required  Yes No Yes Yes Yes Yes Yes Yes Yes Yes  Yes

— Publishing interval, min.	200 ms
Number of monitored items, max.	500
Number of server interfaces, max.	2
<ul> <li>Number of nodes for user-defined server interfaces, max.</li> </ul>	1 000
Further protocols	
• MODBUS	Yes
Communication functions	
S7 communication	V.
• supported	Yes Yes
as server     as client	Yes
User data per job, max.	See online help (S7 communication, user data size)
Number of connections	, ————————————————————————————————————
• overall	8 connections for open user communication (active or passive): TSEND_C, TRCV_C,
	TCON, TDISCON, TSEND and TRCV, 8 CPU/CPU connections (Client or Server) for GET/PUT data, 6 connections for dynamic assignment to GET/PUT or open user communication
Test commissioning functions	
Status/control	
Status/control variable	Yes
• Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Forcing	Voc
Forcing     Diagnostic buffer	Yes
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  Counting frequency (counter) may	6 100 kHz
Counting frequency (counter) max.  Frequency measurement	Yes
controlled positioning	Yes
Number of position-controlled positioning axes, max.	8
Number of positioning axes via pulse-direction interface	4; With integrated outputs
PID controller	Yes
Number of alarm inputs	4
Number of pulse outputs	4
Limit frequency (pulse)  Potential separation	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
<ul> <li>between the channels</li> </ul>	No
between the channels, in groups of	1
EMC	
Interference immunity against discharge of static electricity	Ver
<ul> <li>Interference immunity against discharge of static electricity acc. to IEC 61000-4-2</li> </ul>	Yes
Test voltage at air discharge	8 kV
Test voltage at contact discharge	6 kV
Interference immunity to cable-borne interference	
<ul> <li>Interference immunity on supply lines acc. to IEC 61000-4-4</li> </ul>	Yes
Interference immunity on signal cables acc. to IEC 61000-4-4	Yes
Interference immunity against voltage surge	V
Interference immunity on supply lines acc. to IEC 61000-4-5  Interference immunity against conducted variable disturbance induced by by	Yes
Interference immunity against conducted variable disturbance induced by h  Interference immunity against high-frequency radiation acc. to IEC	Yes
61000-4-6	
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes; Group 1
<ul> <li>Limit class B, for use in residential areas</li> </ul>	Yes; When appropriate measures are used to ensure compliance with the limits for Class B
Standards approvals cortificatos	according to EN 55011
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

mbient 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) 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	
<ul> <li>vertical installation, max.</li> </ul>	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	
<ul> <li>Installation altitude, max.</li> </ul>	2 000 m	
Relative humidity		
Operation, max.	95 %; no condensation	
/ibrations		
Vibration resistance during operation acc. to IEC 60068-2-6	2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail	
<ul> <li>Operation, tested according to IEC 60068-2-6</li> </ul>	Yes	
Shock testing		
• tested according to IEC 60068-2-27	Yes	
onfiguration		
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	
imensions		
Vidth	130 mm	
Height	100 mm	
Depth	75 mm	
/eights	70 11111	
	500 a	
Weight, approx. last modified:	500 g 2/5/2021	

Last changes: 02/07/2021

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