6ES7217-1AG40-0XB0

**Data sheet** 

SIMATIC S7-1200, CPU 1217C, compact CPU, DC/DC/DC, 2 PROFINET ports onboard I/O: 10 DI 24 V DC; 4 DI RS422/485; 6 DO 24 V DC; 0.5A; 4 DO RS422/485; 2 AI 0-10 V DC, 2 AO 0-20 mA Power supply: DC 20.4-28.8V DC, Program/data memory 150 KB



General information	
Product type designation	CPU 1217C DC/DC/DC
Firmware version	V4.5
Engineering with	
<ul> <li>Programming package</li> </ul>	STEP 7 V17 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
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	600 mA; CPU only
Current consumption, max.	1 600 mA; CPU with all expansion modules
Inrush current, max.	12 A; at 28.8 V DC
l²t	0.5 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
for backplane bus (5 V DC), max. Encoder supply	1 600 mA; Max. 5 V DC for SM and CM
	1 600 mA; Max. 5 V DC for SM and CM
Encoder supply	1 600 mA; Max. 5 V DC for SM and CM  L+ minus 4 V DC min.
Encoder supply 24 V encoder supply	
Encoder supply  24 V encoder supply  • 24 V	
Encoder supply  24 V encoder supply  • 24 V  Power loss	L+ minus 4 V DC min.
Encoder supply  24 V encoder supply  • 24 V  Power loss  Power loss, typ.	L+ minus 4 V DC min.
Encoder supply  24 V encoder supply  • 24 V  Power loss  Power loss, typ.  Memory	L+ minus 4 V DC min.
Encoder supply  24 V encoder supply  • 24 V  Power loss  Power loss, typ.  Memory  Work memory	L+ minus 4 V DC min.  12 W
Encoder supply  24 V encoder supply  • 24 V  Power loss  Power loss, typ.  Memory  Work memory  • integrated	L+ minus 4 V DC min.  12 W  150 kbyte
Encoder supply  24 V encoder supply  • 24 V  Power loss  Power loss, typ.  Memory  Work memory  • integrated  • expandable  Load memory  • integrated	L+ minus 4 V DC min.  12 W  150 kbyte
Encoder supply  24 V encoder supply  • 24 V  Power loss  Power loss, typ.  Memory  Work memory  • integrated  • expandable  Load memory  • integrated  • Plug-in (SIMATIC Memory Card), max.	L+ minus 4 V DC min.  12 W  150 kbyte No
Encoder supply  24 V encoder supply  • 24 V  Power loss  Power loss, typ.  Memory  Work memory  • integrated  • expandable  Load memory  • integrated	L+ minus 4 V DC min.  12 W  150 kbyte No 4 Mbyte
Encoder supply  24 V encoder supply  • 24 V  Power loss  Power loss, typ.  Memory  Work memory  • integrated  • expandable  Load memory  • integrated  • Plug-in (SIMATIC Memory Card), max.	L+ minus 4 V DC min.  12 W  150 kbyte No  4 Mbyte with SIMATIC memory card
Encoder supply  24 V encoder supply  • 24 V  Power loss  Power loss, typ.  Memory  Work memory  • integrated • expandable  Load memory  • integrated • Plug-in (SIMATIC Memory Card), max.  Backup	L+ minus 4 V DC min.  12 W  150 kbyte No  4 Mbyte with SIMATIC memory card
Encoder supply  24 V encoder supply  • 24 V  Power loss  Power loss, typ.  Memory  Work memory  • integrated • expandable  Load memory  • integrated • Plug-in (SIMATIC Memory Card), max.  Backup • present	L+ minus 4 V DC min.  12 W  150 kbyte No  4 Mbyte with SIMATIC memory card
Encoder supply  24 V encoder supply  • 24 V  Power loss  Power loss, typ.  Memory  Work memory  • integrated  • expandable  Load memory  • integrated  • Plug-in (SIMATIC Memory Card), max.  Backup  • present  • maintenance-free	L+ minus 4 V DC min.  12 W  150 kbyte No  4 Mbyte with SIMATIC memory card  Yes Yes

for word enerations, top	1.7 us: / instruction
for word operations, typ.	1.7 µs; / instruction
for floating point arithmetic, typ.	2.3 μs; / Operation
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	
<ul><li>Number, max.</li></ul>	Limited only by RAM for code
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max. Flag	14 kbyte
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	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
<ul><li>Backup time</li><li>Deviation per day, max.</li></ul>	±60 s/month at 25 °C
	100 S/HOHH &t 25 G
Digital inputs	44.11
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)	10 V BO dt 2.0 H/V
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
<ul> <li>of which high-speed outputs</li> </ul>	4; 100 kHz Pulse Train Output
Limitation of inductive shutdown voltage to	L+ (-48 V)
Switching capacity of the outputs	
<ul><li>with resistive load, max.</li></ul>	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 cianal "()" recidinal current may	
• for signal "0" residual current, max.	0.1 mA
Output delay with resistive load	A
• "0" to "1", max.	1 µs
• "1" to "0", max.	5 μs
Switching frequency	400 141-
of the pulse outputs, with resistive load, max.  Policy outputs.	100 kHz
Relay outputs  • Number of relay outputs	0
	0
Cable length  • shielded, max.	500 m
unshielded, max.  unshielded, max.	150 m
	130 111
Analog inputs	
Number of analog inputs	2
Input ranges	V
Voltage	Yes
Input ranges (rated values), voltages	Ves
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	≥100k ohms
Cable length  • shielded, max.	100 m; twisted and shielded
	100 III, twisted and Shielded
Analog outputs	
Number of analog outputs	2
Output ranges, current	V
• 0 to 20 mA	Yes
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
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	
	Yes
Connectable encoders  • 2-wire sensor	Yes
Connectable encoders  • 2-wire sensor  1. Interface	
Connectable encoders  • 2-wire sensor  1. Interface Interface type	PROFINET
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated	PROFINET Yes
Connectable encoders  • 2-wire sensor  1. Interface  Interface type Isolated automatic detection of transmission rate	PROFINET Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation	PROFINET Yes Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface  Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing	PROFINET Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types	PROFINET Yes Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet)	PROFINET Yes Yes Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface  Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports	PROFINET Yes Yes Yes Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet)	PROFINET Yes Yes Yes Yes Yes 2
Connectable encoders  • 2-wire sensor  1. Interface  Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch	PROFINET Yes Yes Yes Yes Yes 2
Connectable encoders  • 2-wire sensor  1. Interface  Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols	PROFINET Yes Yes Yes Yes Yes Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface  Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols • PROFINET IO Controller	PROFINET Yes Yes Yes Yes Yes Yes Yes 2 Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device	PROFINET Yes Yes Yes Yes Yes Yes Yes 2 Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication	PROFINET Yes Yes Yes Yes Yes  Yes 2 Yes Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication	PROFINET Yes Yes Yes Yes Yes  Yes 2 Yes  Yes Yes Yes Yes Yes Yes Yes Yes Ye
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server	PROFINET Yes Yes Yes Yes Yes  Yes 2 Yes  Yes Yes Yes Yes Yes Yes Yes Yes Ye
Connectable encoders  • 2-wire sensor  1. Interface  Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy	PROFINET Yes Yes Yes Yes Yes  Yes 2 Yes  Yes Yes Yes Yes Yes Yes Yes Yes Ye
Connectable encoders  • 2-wire sensor  1. Interface  Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy  PROFINET IO Controller	PROFINET Yes Yes Yes Yes Yes  Yes  Yes  Yes  Ye
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • 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 Yes Yes Yes Yes Yes  Yes  Yes  Yes  Ye
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • 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. Services	PROFINET Yes Yes Yes Yes  Yes  Yes  Yes  Yes  Y
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • 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.  Services  — PG/OP communication	PROFINET Yes Yes Yes Yes Yes  Yes  Yes  Yes  Ye
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • 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.  Services  — PG/OP communication — Isochronous mode	PROFINET Yes Yes Yes Yes Yes  Yes 2 Yes  Yes Yes Yes Yes Yes Yes Yes Yes Ye
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • 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.  Services  — PG/OP communication — Isochronous mode — IRT — PROFIenergy — Prioritized startup	PROFINET Yes Yes Yes Yes Yes  Yes  Yes  Yes  Ye
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • 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.  Services  — PG/OP communication — Isochronous mode — IRT — PROFIenergy	PROFINET Yes Yes Yes Yes Yes  Yes  Yes  Yes Yes

Number of compostable IO Devices may	16
Number of connectable IO Devices, max.	16 16
<ul> <li>Number of connectable IO Devices for RT, max.</li> </ul>	10
— of which in line, max.	16
Activation/deactivation of IO Devices	Yes
<ul> <li>Number of IO Devices that can be</li> </ul>	8
simultaneously activated/deactivated, max.	
<ul><li>Updating time</li></ul>	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	devices and the quantity of configured user data.
Services	
— PG/OP communication	Yes; encryption with TLS V1.3 pre-selected
Isochronous mode	No
— IRT	No
— PROFlenergy	Yes
— Shared device	Yes
<ul> <li>Number of IO Controllers with shared device,</li> </ul>	2
max.	
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)	V.
• TCP/IP	Yes
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Redundancy mode  Media redundancy	
— MRP	Yes; as MRP redundancy manager and/or MRP client
— MRPD	No
SIMATIC communication	INO
• S7 routing	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
OPC UA	V
Runtime license required     ORG HA Server	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,
Approation authoritiontion	Basic256Sha256
<ul> <li>User authentication</li> </ul>	"anonymous" or by user name & password
— Number of sessions, max.	10
<ul> <li>Number of subscriptions per session, max.</li> </ul>	5
<ul><li>— Sampling interval, min.</li></ul>	100 ms
<ul><li>— Publishing interval, min.</li></ul>	200 ms
<ul> <li>Number of server methods, max.</li> </ul>	20
<ul> <li>Number of monitored items, recommended</li> </ul>	1 000
max.	
Number of server interfaces, max.	2
<ul> <li>Number of nodes for user-defined server interfaces, max.</li> </ul>	2 000
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	
<ul> <li>Status/control variable</li> </ul>	Yes
• Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Forcing	V
• Forcing	Yes
Diagnostic buffer	Voo
• present	Yes
Traces	2
<ul><li>Number of configurable Traces</li><li>Memory size per trace, max.</li></ul>	2 512 kbyte
	JIZ KUYLE
Interrupts/diagnostics/status information	
Diagnostics indication LED	V
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
Integrated Functions	
Frequency measurement	Yes
controlled positioning	Yes
Number of position-controlled positioning axes, max.	8
Number of positioning axes via pulse-direction interface PID controller	4; With integrated outputs
Number of alarm inputs	Yes 4
Number of pulse outputs	4
Limit frequency (pulse)	1 MHz
Potential separation	· · · · · · ·
Potential separation digital inputs  • Potential separation digital inputs	No
between the channels, in groups of	No 1
Potential separation digital outputs	
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 electricity	
Interference immunity against discharge of static	Yes
electricity acc. to IEC 61000-4-2	
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
<ul> <li>Interference immunity on signal cables acc. to IEC 61000-4-4</li> </ul>	Yes
Interference immunity against voltage surge	
<ul> <li>Interference immunity on supply lines acc. to IEC 61000-4-5</li> </ul>	Yes
Interference immunity against conducted variable disturbance	, , ,
<ul> <li>Interference immunity against high-frequency radiation acc. to IEC 61000-4-6</li> </ul>	Yes
Emission of radio interference acc. to EN 55 011	

<ul> <li>Limit class A, for use in industrial areas</li> </ul>	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 according to EN 55011
egree and class of protection	the limits for Class B according to EN 550 FF
P degree of protection	IP20
	IF 20
andards, approvals, certificates	V
CE mark	Yes Yes
UL approval 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
<ul><li>max.</li><li>horizontal installation, min.</li></ul>	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, max.	-20 ℃ 60 °C
vertical installation, min.	-20 °C
vertical installation, min.     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
Storage/transport, min.	660 hPa
Storage/transport, max.	1 080 hPa
Altitude during operation relating to sea level	4 000
<ul><li>Installation altitude, min.</li><li>Installation altitude, max.</li></ul>	-1 000 m
Relative humidity	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Operation, max.	95 %; no condensation
Vibrations	00 /0, 110 001100110011
• 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	Voc. IFC 60 Port 2 27 half since absorable of the about 45 m/s
• 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	
<ul> <li>SO2 at RH &lt; 60% without condensation</li> </ul>	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
onfiguration / header	
configuration / programming / header	
Programming language	
— LAD	Yes
— FBD	Yes
— SCL	Yes
Know-how protection	Von
User program protection/password protection     Convergetation	Yes
<ul><li>Copy protection</li><li>Block protection</li></ul>	Yes Yes
Access protection	100
protection of confidential configuration data	Yes
Protection level: Write protection	Yes
Protection level: Write protection     Protection level: Read/write protection	Yes
Protection level: Read white protection     Protection level: Complete protection	Yes
programming / cycle time monitoring / header	

Dimensions	
Width	150 mm
Height Depth	100 mm
Depth	75 mm
Weights	
Weight, approx.	530 g

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