SIEMENS

Data sheet

6ES7215-1AG40-0XB0

SIMATIC S7-1200, CPU 1215C, COMPACT CPU, DC/DC/DC, 2 PROFINET PORT, ONBOARD I/O: 14 DI 24V DC; 10 DO 24V DC 0.5A 2 AI 0-10V DC, 2 AO 0-20MA DC, POWER SUPPLY: DC 20.4 -28.8 V DC, PROGRAM/DATA MEMORY: 125 KB



General information	
Product type designation	CPU 1215C 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 DC
2t	0.5 A²·s
	U.J A 3
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	42.14
Power loss, typ.	12 W
Memory	
Work memory	
• integrated	125 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
ОВ	
• Number, max.	Limited only by RAM for code
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags),	10 kbyte
max.	
Flag	
Number, 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	
Address area	

Inputs, adjustable	1 kbyte
Outputs, adjustable	1 kbyte
Hardware confirmation	
Hardware configuration Number of modules per system, max.	3 comm. modules, 1 signal board, 8 signal modules
radinate of modules per system, max.	o comm. modulos, i signal board, o signal modulos
Time of day	
Clock	
Hardware clock (real-time)	Yes
Backup time	480 h; Typical
Deviation per day, max.	±60 s/month at 25 °C
Digital inputs	
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	
— 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 counter/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
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	
• 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	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), 	10 bit
max.	
Integration time, parameterizable	Yes
Conversion time (per channel)	625 μs
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	401:4
 Resolution with overrange (bit including sign), max. 	10 bit
Encoder	
Connectable encoders	

• 2-wire sensor	Yes	
1. Interface		
Interface type	PROFINET	
Physics	Ethernet	
Isolated	Yes	
automatic detection of transmission rate	Yes	
Autonegotiation	Yes	
Autocrossing	Yes	
Interface types		
Number of ports	2	
• integrated switch	Yes	
Functionality		
PROFINET IO Controller	Yes	
 PROFINET IO Device 	Yes	
 SIMATIC communication 	Yes	
Open IE communication	Yes	
• Web server	Yes	
Media redundancy	Yes; as MRP client	
PROFINET IO Controller		
Transmission rate, max.	100 Mbit/s	
Services		
— PG/OP communication	Yes	
	V.	

Transmission rate, max.	100 Mbit/s
Services	
— PG/OP communication	Yes
— S7 routing	Yes
— Isochronous mode	No
 Open IE communication 	Yes
— IRT	No
— MRP	Yes; as MRP client
— MRPD	No
— PROFlenergy	No
 Prioritized startup 	Yes
 Number of IO devices with prioritized 	16
startup, max.	
 Number of connectable IO Devices, max. 	16
 Number of connectable IO Devices for RT, 	16
max.	
— of which in line, max.	16
 Activation/deactivation of IO Devices 	Yes
— Number of IO Devices that can be	8
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.

Services	PROFINET IO Device	
— S7 routing Yes — Isochronous mode No — Open IE communication Yes — IRT No — IRT No — IRT No — IRPP Yes; as MRP client — MRPP Yes; as MRP client — MRPD No — PROFlenergy Yes — Shared device Yes — Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO Yes; CM 1243-5 required AS-Interface Yes; CM 1243-2 required PROFIBUS Yes — Protocols (Ethernet) Yes — DHCP No — SNMP Yes — DHCP Yes — LLDP Yes — LLDP Yes — Open IE communication — TCP/IP — Data length, max. 8 kbyte — UDP — Data length, max. 8 kbyte — UDP — Data length, max. 1472 byte Further protocols — MODBUS Yes Communication — SY comm	Services	
Isochronous mode	— PG/OP communication	Yes
Open IE communication	— S7 routing	Yes
- IRT	— Isochronous mode	No
— MRP Yes; as MRP client — MRPD No — PROFlenergy Yes — Shared device Yes — Number of IO Controllers with shared device, max. 2 Protocols Supports protocol for PROFINET IO Yes PROFIBUS Yes; CM 1243-5 required AS-Interface Yes; CM 1243-2 required Protocols (Ethernet) Yes • TCP/IP Yes • DHCP No • SNMP Yes • DCP Yes • LLDP Yes Open IE communication * TCP/IP — Data length, max. 8 kbyte • ISO-on-TCP (RFC1006) Yes — Data length, max. 1 472 byte Further protocols * MODBUS • MODBUS Yes Communication functions S7 communication • supported Yes • as server Yes • as server Yes • supported Yes • as client Yes	 Open IE communication 	Yes
— MRPD No — PROFlenergy Yes — Shared device Yes — Number of IO Controllers with shared device, max. 2 Protocols Supports protocol for PROFINET IO Yes Yes PROFIBUS Yes; CM 1243-5 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 — Data length, max. 8 kbyte • ISO-on-TCP (RFC1006) Yes — Data length, max. 1 472 byte Further protocols • MODBUS Yes Communication functions \$7 communication Yes • as server Yes • as client Yes • user data per job, max. See online help (\$7 communication, user data size) Open IE communication Yes	— IRT	No
— PROFlenergy — Shared device — Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) • TCP/IP • DHCP • DHCP • DCP • LLDP Open IE communication • TCP/IP — Data length, max. • UDP — Data length, max. • UDP — Data length, max. • Word of the shared of t	— MRP	Yes; as MRP client
— Shared device — Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Yes; CM 1243-5 required Protocols (Ethernet) • TCP/IP • DHCP • DHCP • SNMP • DCP • LLDP Open IE communication • TCP/IP — Data length, max. • ISO-on-TCP (RFC1006) — Data length, max. • UDP — Data length, max. • UDP — Data length, max. • Ves Communication functions S7 communication • Yes • as client • User data per job, max. Open IE communication, user data size) Open IE communication • TCP/IP	— MRPD	No
Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) • TCP/IP • DHCP • DHCP • DCP • LLDP • LLDP Data length, max. • ISO-on-TCP (RFC1006) Data length, max. • UDP Data length, max. • Why the supported • MODBUS ST communication • Yes Communication • Yes Communication • Yes Open IE conmunication • Yes Communication • Yes Communication • Yes Open IE communication • Yes Communication functions ST communication • Supported • as server • as client • User data per job, max. Open IE communication • TCP/IP Data communication TCP/IP No Yes As communication TCP/IP No Yes No Yes No Yes No Yes No No Yes No No Yes No No No No Yes No No No Yes No No No No No No No No Yes Scanding TCP/IP No No Yes Scanding TCP/IP No No Yes Scanding TCP/IP No No No Yes Scanding TCP/IP No TCP/IP No No Yes Scanding TCP/IP No	— PROFlenergy	Yes
device, max. Protocols Supports protocol for PROFINET IO Yes PROFIBUS Yes; CM 1243-5 required AS-Interface Yes; CM 1243-2 required Protocols (Ethernet) • TCP/IP Yes • DHCP No • SNMP Yes • DCP • LLDP Yes Open IE communication • TCP/IP — Data length, max. 8 kbyte • ISO-on-TCP (RFC1006) Yes • UDP — Data length, max. 1 472 byte Further protocols • MODBUS Communication • supported • as server • as client • User data per job, max. See online help (S7 communication, user data size) Open IE communication • TCP/IP Ves See online help (S7 communication, user data size) Open IE communication • TCP/IP Ves	— Shared device	Yes
Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Yes; CM 1243-5 required Protocols (Ethernet) TCP/IP DHCP DHCP No SIMP PCP LLDP POPEL E Communication TCP/IP Data length, max. UDP Data length, max. UDP Data length, max. UDP Total length, max. UDP UDP Total length, max. UDP	 Number of IO Controllers with shared 	2
Supports protocol for PROFINET IO PROFIBUS Yes; CM 1243-5 required AS-Interface Yes; CM 1243-2 required Protocols (Ethernet) • TCP/IP • DHCP • DHCP • DHCP • DCP • SNMP • DCP • LLDP Open IE communication • TCP/IP — Data length, max. • ISC-on-TCP (RFC1006) — Data length, max. • UDP — Data length, max. • UDP — Data length, max. • Yes Communication functions S7 communication • supported • as server • as client • User data per job, max. Open IE communication • TCP/IP • See online help (S7 communication, user data size) Open IE communication • TCP/IP Yes	device, max.	
PROFIBUS Yes; CM 1243-5 required	Protocols	
AS-Interface Yes; CM 1243-2 required	Supports protocol for PROFINET IO	Yes
Protocols (Ethernet)		Yes; CM 1243-5 required
		Yes; CM 1243-2 required
SNMP DCP CP LLDP Yes Open IE communication TCP/IP Data length, max. Skbyte Skbyte UDP Data length, max. UDP Data length, max. Yes Turther protocols MODBUS Communication S7 communication S7 communication S7 communication S7 communication S8 communication Yes S9 communication S9 communicatio	• TCP/IP	
DCP LLDP Yes Open IE communication TCP/IP Data length, max. ISO-on-TCP (RFC1006) Data length, max. UDP Data length, max. 1 472 byte Further protocols MODBUS Communication functions S7 communication supported as server as client Ves see online help (S7 communication, user data size) Open IE communication TCP/IP Yes	• DHCP	
● LLDP Open IE communication ● TCP/IP — Data length, max. ● ISO-on-TCP (RFC1006) — Data length, max. ● UDP — Data length, max. ● UDP — Data length, max. 1 472 byte Further protocols ● MODBUS Yes Communication functions \$7 communication ● supported ● as server ● as client ● User data per job, max. Open IE communication ● TCP/IP Yes	• SNMP	
Open IE communication TCP/IP Data length, max. Sk byte ISO-on-TCP (RFC1006) Data length, max. Sk byte UDP Data length, max. T472 byte Further protocols MODBUS Communication functions S7 communication S7 communication S7 communication User data per job, max. See online help (S7 communication, user data size) Open IE communication TCP/IP Yes	• DCP	
TCP/IP Data length, max. ISO-on-TCP (RFC1006) Data length, max. UDP Data length, max. I 472 byte Further protocols MODBUS Communication functions S7 communication supported as server as sclient User data per job, max. See online help (S7 communication, user data size) Open IE communication Yes Yes Yes See online help (S7 communication, user data size) Open IE communication Yes		Yes
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ISO-on-TCP (RFC1006) — Data length, max. Identify the protocols In MODBUS Further protocols In MODBUS Yes Communication functions S7 communication Identify the protocols Identify the protocols Yes Communication functions S7 communication Identify the protocols Yes Communication functions Yes Identify the protocols Yes Yes Identify the protocols Yes Yes Identify the protocols Yes Yes Identify the protocols Yes Yes Yes Yes Yes Yes Yes Y	• TCP/IP	
— Data length, max. • UDP — Data length, max. 1 472 byte Further protocols • MODBUS Yes Communication functions \$7 communication • supported • as server • as client • User data per job, max. Open IE communication • TCP/IP Yes	— Data length, max.	
UDP — Data length, max. Further protocols MODBUS Yes Communication functions S7 communication supported sas server as server as client User data per job, max. Open IE communication Yes Yes Yes Yes Yes Yes Yes Ye	• ISO-on-TCP (RFC1006)	
— Data length, max. Further protocols • MODBUS Yes Communication functions S7 communication • supported • as server • as client • User data per job, max. Open IE communication • TCP/IP Yes	— Data length, max.	8 kbyte
Further protocols • MODBUS Yes Communication functions S7 communication • supported • as server • as client • User data per job, max. Open IE communication • TCP/IP Yes	• UDP	
 MODBUS Yes Communication functions S7 communication supported as server as client User data per job, max. Open IE communication TCP/IP Yes Yes Yes Yes Yes Yes Yes Yes 		1 472 byte
Communication functions S7 communication • supported • as server • as client • User data per job, max. Open IE communication • TCP/IP Yes Yes See online help (S7 communication, user data size)	Further protocols	
S7 communication • supported • as server • as client • User data per job, max. Open IE communication • TCP/IP Yes Yes See online help (S7 communication, user data size) Yes	• MODBUS	Yes
 supported as server as client User data per job, max. Open IE communication TCP/IP Yes Yes See online help (S7 communication, user data size) 	Communication functions	
 as server as client User data per job, max. Open IE communication TCP/IP Yes See online help (S7 communication, user data size) Yes 	S7 communication	
 as client User data per job, max. Open IE communication TCP/IP Yes Yes 	• supported	
 User data per job, max. Open IE communication TCP/IP Yes 	• as server	
Open IE communication ◆ TCP/IP Yes	• as client	
• TCP/IP Yes		See online help (S7 communication, user data size)
	Open IE communication	
• UDP Yes		
	• UDP	Yes

Web server	
	Yes
• supported	
User-defined websites	Yes
Number of connections	
• overall	16; dynamically
Test commissioning functions	
Status/control	
Status/control variable	Yes
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Forcing	
Forcing	Yes
Diagnostic buffer	
• present	Yes
Traces	
Number of configurable Traces	2
Memory size per trace, max.	512 kbyte
Interrupto/diagnostics/status information	
Interrupts/diagnostics/status information Diagnostics indication LED	
• RUN/STOP LED	Yes
• ERROR LED	Yes
	Yes
• MAINT LED	165
Integrated Functions	
Number of counters	6
Counting frequency (counter) max.	100 kHz
Frequency meter	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	Voc
	Yes
Number of pulse outputs	4
Number of pulse outputs	
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.	, in groups (of
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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	
Interference immunity to cable-borne interference		
 Interference immunity on supply lines acc. to IEC 61000-4-4 	Yes	
 Interference immunity on signal cables acc. to IEC 61000-4-4 	Yes	
Interference immunity against voltage surge		
• on the supply lines acc. to IEC 61000-4-5	Yes	
Interference immunity against conducted variable distur	bance 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		
2 g. co and blabb of protoblish		
Degree of protection acc. to EN 60529		
	Yes	
Degree of protection acc. to EN 60529	Yes	
Degree of protection acc. to EN 60529 • IP20	Yes	
Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates		
Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates CE mark	Yes	
Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates CE mark UL approval cULus FM approval	Yes Yes Yes Yes Yes	
Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates CE mark UL approval cULus FM approval RCM (formerly C-TICK)	Yes Yes Yes Yes Yes Yes Yes	
Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval	Yes Yes Yes Yes Yes Yes Yes Yes	
Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates CE mark UL approval cULus FM approval RCM (formerly C-TICK)	Yes Yes Yes Yes Yes Yes	
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Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval	Yes Yes Yes Yes Yes Yes Yes Yes Yes	
Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall • Fall height, max.	Yes Yes Yes Yes Yes Yes Yes Yes	
Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall	Yes	
Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall • Fall height, max.	Yes	
Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall • Fall height, max. Ambient temperature during operation	Yes	
Degree of protection acc. to EN 60529 • IP20 Standards, approvals, certificates CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min.	Yes	

• vertical installation, min	-20 °C
vertical installation, min.vertical installation, max.	50 °C
Ambient temperature during storage/transportation	30 0
min.	-40 °C
	70 °C
• max.	70 C
Air pressure acc. to IEC 60068-2-13	705 LD-
Operation, min.	795 hPa
Operation, max.	1 080 hPa
Storage/transport, min.	660 hPa
• Storage/transport, max.	1 080 hPa
 permissible operating height 	-1000 to 2000 m
Relative humidity	
Operation, max.	95 %; no condensation
Vibrations	
Vibrations	2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
 Operation, tested according to IEC 60068-2-6 	Yes
Shock test	
• 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 Yes
— FBD	Yes
— FBD — SCL	Yes
— FBD — SCL Know-how protection	Yes Yes
 — FBD — SCL Know-how protection ● User program protection/password protection 	Yes Yes
 FBD SCL Know-how protection User program protection/password protection Copy protection 	Yes Yes Yes
 FBD SCL Know-how protection User program protection/password protection Copy protection Block protection 	Yes Yes Yes
— FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection	Yes Yes Yes Yes Yes Yes
 FBD SCL Know-how protection User program protection/password protection Copy protection Block protection Access protection Protection level: Write protection 	Yes Yes Yes Yes Yes Yes
— FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection	Yes Yes Yes Yes Yes Yes Yes
— FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection	Yes Yes Yes Yes Yes Yes Yes
— FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection Cycle time monitoring	Yes
FBD SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection Cycle time monitoring • adjustable	Yes
— FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection Cycle time monitoring • adjustable Dimensions	Yes

Weights	
Weight, approx.	500 g
last modified:	10/05/2017