## **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	
<ul> <li>Programming package</li> </ul>	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
<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 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
Encoder supply 24 V encoder supply	
• 24 V	L+ minus 4 V DC min.
• 24 V	
Power loss	
Power loss, typ.	12 W
Memory	
Work memory	
• integrated	125 kbyte
• expandable	No
Load memory	
<ul> <li>integrated</li> </ul>	4 Mbyte
<ul> <li>Plug-in (SIMATIC Memory Card), max.</li> </ul>	with SIMATIC memory card
Backup	
• present	Yes
maintenance-free	Yes
• without battery	Yes
CPU processing times	
for bit operations, typ.	0.085 μs; / instruction
for word operations, typ.	1.7 μs; / instruction
for floating point arithmetic, typ.	2.3 µs; / instruction
CPU-blocks	
Number of blocks (total)	DBs, FCs, FBs, counters and timers. The maximum number of
	addressable blocks ranges from 1 to 65535. There is no
	restriction, the entire working memory can be used
OB	Listian and the DAM for and
<ul> <li>Number, max.</li> </ul>	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	
<ul> <li>per priority class, max.</li> </ul>	16 kbyte; Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB
Address area	
Process image	

<ul> <li>Inputs, adjustable</li> </ul>	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
• Deviation per day, max.	+/- 60 s/month at 25 °C
Digital inputs	
Number of digital inputs	14; Integrated
<ul> <li>of which inputs usable for technological functions</li> </ul>	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	
<ul> <li>Rated value (DC)</li> </ul>	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	
<ul> <li>shielded, max.</li> </ul>	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	
• 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
<ul> <li>for signal "0" residual current, max.</li> </ul>	0.1 mA
Output delay with resistive load	0.1100
• "0" to "1", max.	1 µs
• "1" to "0", max.	5 µs
Switching frequency	
<ul> <li>of the pulse outputs, with resistive load, max.</li> </ul>	100 kHz
Cable length	
	500 m
• shielded, max.	150 m
<ul> <li>unshielded, max.</li> </ul>	150 11
Analog inputs	
Number of analog inputs	2
Input ranges	
Voltage	Yes
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
<ul> <li>Input resistance (0 to 10 V)</li> </ul>	≥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	
<ul> <li>Resolution with overrange (bit including sign),</li> </ul>	10 bit
max.	
<ul> <li>Integration time, parameterizable</li> </ul>	Yes
<ul> <li>Conversion time (per channel)</li> </ul>	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	
Interface type	PROFINET
Physics	Ethernet
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
<ul> <li>Number of ports</li> </ul>	2
<ul> <li>integrated switch</li> </ul>	Yes
Functionality	
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
<ul> <li>SIMATIC communication</li> </ul>	Yes
<ul> <li>Open IE communication</li> </ul>	Yes
• Web server	Yes
<ul> <li>Media redundancy</li> </ul>	Yes; as MRP client
PROFINET IO Controller	
<ul> <li>Transmission rate, max.</li> </ul>	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
<ul> <li>— Number of connectable IO Devices for RT, max.</li> </ul>	16
— of which in line, max.	16
— Activation/deactivation of IO Devices	Yes
<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 for PROFINET IO, on the number of IO devices and the quantity of configured user data.

PROFINET IO Device	
Services	
— PG/OP communication	Yes
— S7 routing	Yes
— Isochronous mode	No
— Open IE communication	Yes
— IRT	No
— MRP	Yes; as MRP client
— MRPD	No
— PROFlenergy	Yes
— Shared device	Yes
— Number of IO Controllers with shared	2
device, max.	
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIBUS	Yes; CM 1243-5 required
AS-Interface	Yes; CM 1243-2 required
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Further protocols	
• MODBUS	Yes
Communication functions	
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes
• User data per job, max.	See online help (S7 communication, user data size)
Open IE communication	
• TCP/IP	Yes
— Data length, max.	8 kbyte
<ul> <li>ISO-on-TCP (RFC1006)</li> </ul>	Yes
— Data length, max.	8 kbyte
• UDP	Yes
— Data length, max.	1 472 byte

Yes
Yes

Number of connections	
• overall	16; dynamically
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	
• Forcing	Yes
Diagnostic buffer	
● present	Yes
Traces	
<ul> <li>Number of configurable Traces</li> </ul>	2
<ul> <li>Memory size per trace, max.</li> </ul>	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
Integrated Functions	
Number of counters	6
Counting frequency (counter) max.	100 kHz
Frequency 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	Yes
Number of alarm inputs	4
Number of pulse outputs	4
Limit frequency (pulse)	100 kHz
Potential separation	
Potential separation digital inputs	
<ul> <li>Potential separation digital inputs</li> </ul>	No
<ul> <li>between the channels, in groups of</li> </ul>	1
Potential separation digital outputs	
<ul> <li>Potential separation digital outputs</li> </ul>	Yes
<ul> <li>between the channels</li> </ul>	No
• between the channels, in groups of	1
EMC	
Interference immunity against discharge of static electricity	

<ul> <li>Interference immunity against discharge of</li> </ul>	
static electricity acc. to IEC 61000-4-2	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
<ul> <li>Interference immunity on signal cables acc. to IEC 61000-4-4</li> </ul>	Yes
Interference immunity against voltage surge	
<ul> <li>on the supply lines acc. to IEC 61000-4-5</li> </ul>	Yes
Interference immunity against conducted variable distu	rbance induced by high-frequency fields
<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	
• Limit class A, for use in industrial areas	Yes; Group 1
• Limit class B, for use in residential areas	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011
Degree and class of protection	
Degree of protection acc. to EN 60529	
• IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes
	Yes
FM approval	
RCM (formerly C-TICK)	Yes
RCM (formerly C-TICK) KC approval	Yes Yes
RCM (formerly C-TICK)	
RCM (formerly C-TICK) KC approval	Yes
RCM (formerly C-TICK) KC approval Marine approval	Yes
RCM (formerly C-TICK)         KC approval         Marine approval         Ambient conditions	Yes
RCM (formerly C-TICK)         KC approval         Marine approval         Ambient conditions         Free fall	Yes Yes
RCM (formerly C-TICK)         KC approval         Marine approval         Ambient conditions         Free fall         • Fall height, max.	Yes Yes
RCM (formerly C-TICK)         KC approval         Marine approval         Ambient conditions         Free fall         • Fall height, max.         Ambient temperature during operation	Yes Yes 0.3 m; five times, in product package
RCM (formerly C-TICK)         KC approval         Marine approval         Ambient conditions         Free fall         • Fall height, max.         Ambient temperature during operation         • min.	Yes Yes 0.3 m; five times, in product package -20 °C 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
RCM (formerly C-TICK)         KC approval         Marine approval         Ambient conditions         Free fall         • Fall height, max.         Ambient temperature during operation         • min.         • max.	Yes Yes 0.3 m; five times, in product package -20 °C 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
RCM (formerly C-TICK)         KC approval         Marine approval         Ambient conditions         Free fall         • Fall height, max.         Ambient temperature during operation         • min.         • max.         • horizontal installation, min.	Yes Yes 0.3 m; five times, in product package -20 °C 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 -20 °C
RCM (formerly C-TICK)         KC approval         Marine approval         Ambient conditions         Free fall         • Fall height, max.         Ambient temperature during operation         • min.         • max.         • horizontal installation, min.         • horizontal installation, max.	Yes Yes 0.3 m; five times, in product package -20 °C 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 -20 °C 60 °C

max.         70 °C           Air pressure act. to EC 60068-2-13         79 °C hPa           • Operation, min.         79 °C hPa           • Operation, max.         600 hPa           • Storage/transport, max.         1080 hPa           • permissible operating height         1080 hPa           • operation, max.         600 hPa           • operation, max.         95 %; no condensation           • Operation, tested according to EC 60068-2.47         Yas: IEC 68, Part 2.27 half-sine: strength of the shock 15 g (peak value), duration 11 ms           Extended ambient conditions         Yes           Forgramming         Yes           - SO2 at RH < 60% without condensation         Yes           Programming         Yes           - IAD         Yes           - FBD         Yes           - SO2, et program protection/password protection         Yes           Now-how protection         Yes           - SO2, protection         Yes           - SO2, protection         Yes           - SO2 pro	● min.	-40 °C
Air pressure sec. to IEC 60068-2-13           • Operation, min.         725 hPa           • Operation, max.         1080 hPa           • Storage/transport, max.         1080 hPa           • Storage/transport, max.         1080 hPa           • Storage/transport, max.         1080 hPa           • permissible oparating height         -1000 to 2000 m           Relative humidity         95 %; no condensation           • Operation, max.         2 g (m/s <sup>3</sup> ) wall mounting, 1 g (m/s <sup>3</sup> ) DIN rail           • Vibrations         2 g (m/s <sup>3</sup> ) wall mounting, 1 g (m/s <sup>3</sup> ) DIN rail           • Operation, tested according to IEC 60068-2-6         Yes           Shock test         -           • tosted according to IEC 60068-2-7         Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms           Extended ambient conditions         -           Pollutant concentrations         -           - SO2 at RH < 60% without condensation		
• Operation, min.795 hPa• Operation, max.1080 hPa• Storage/transport, min.660 hPa• Storage/transport, max.660 hPa• Storage/transport, max.960 hPa• operation (max.95 %; no condensation• Operation, max.95 %; no condensation• Operation, max.95 %; no condensation• Operation, max.2 g (m/s²) wall mounting. 1 g (m/s²) DIN rail• Operation, tested according to IEC 60068-2-8YesShock testYes: IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms• tested according to IEC 60068-2-87Yes: IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 msPollutant concentrationsS02: < 0.5 pm; H2S: < 0.1 ppm; RH < 60% condensation-free	-	
• Operation, max.         1 080 hPa           • Storage/transport, max.         1 080 hPa           • Storage/transport, max.         1 080 hPa           • bermissible operating height         1 080 hPa           • Operation, max.         95 %; no condensation           • Operation, max.         95 %; no condensation           • Vibrations         2 g (m/s <sup>+</sup> ) wall mounting, 1 g (m/s <sup>+</sup> ) DIN rail           • Operation, tested according to IEC 60068-2-6         Yes           • Stock 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           • 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           • 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           • 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           • SO2 at RH < 60% without condensation	•	795 hPa
• Storage/transport, min.660 hPa• Storage/transport, max.1080 hPa• permissible operating height1000 to 2000 mRelative humidity95 %; no condensation• Operation, max.95 %; no condensation• Vibrations2 g (m/s*) wall mounting, 1 g (m/s*) DIN rail• Operation, tested according to IEC 60068-2-6YesShock testYes. IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 msExtended ambient conditionsYes. IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 msExtended ambient conditionsSto: < 0.5 pm; H2S; < 0.1 ppm; RH < 60% condensation-free		1 080 hPa
Storage/transport, max.         1 080 hPa           • permissible operating height         1 080 hPa           • operation, max.         9 %; no condensation           • Operation, max.         9 %; no condensation           • Vibrations         2 g (m/s <sup>+</sup> ) wall mounting, 1 g (m/s <sup>+</sup> ) DIN rail           • Operation, tested according to IEC 60068-2-6         Yes           Shock test         -           • lested according to IEC 60068-2-7         Yes, IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms           Extended ambient conditions         -           Follutant concentrations         -           - SO2 at RH < 60% without condensation	·	
•permissible operating height         -1000 to 2000 m           Relative humidity         -000 to 2000 m           • Operation, max.         95 %; no condensation           • Vibrations         2 g (m/s <sup>2</sup> ) wall mounting, 1 g (m/s <sup>2</sup> ) DIN rail           • Operation, tested according to IEC 60068-2-6         Yes           Shock test         Yes           • 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           Extended ambient conditions         -           Pollutant concentrations         -           • SO2 at RH < 60% without condensation		
Relative hundity           • Operation, max.         95 %; no condensation           Vibrations         2 g (m/s <sup>9</sup> ) wall mounting, 1 g (m/s <sup>9</sup> ) DIN rail           • Operation, tested according to IEC 60068-2-8         Yes           Shock test		
• Operation, max.95 %; no condensationVibrations2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail• Vibrations, tested according to IEC 60068-2-60YesShock test• tested according to IEC 60068-2-27Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 msExtended ambient conditionsExtended ambient conditionsSo2: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free		
Vibrations         2 g (m/s <sup>2</sup> ) wall mounting, 1 g (m/s <sup>2</sup> ) DIN rail           • Operation, tested according to IEC 60068-2-6         Yes           Shock test         value), duration 11 ms           • 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           Extended ambient conditions         Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms           Extended ambient conditions         S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free		95 %; no condensation
• Vibrations       2 g (m/s <sup>1</sup> ) wall mounting, 1 g (m/s <sup>2</sup> ) DIN rail         • Operation, tested according to IEC 60068-2-27       Yes         • 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         • 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         Extended ambient conditions       -         Follutant concentrations       -         - SO2 at RH < 60% without condensation		
• Operation, tested according to IEC 60068-2-27       Yes         • 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         Extended ambient conditions       Extended ambient conditions         Pollutant concentrations       502: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free		2 g (m/s <sup>2</sup> ) wall mounting, 1 g (m/s <sup>2</sup> ) DIN rail
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         Extended ambient conditions       Extended ambient concentrations         Pollutant concentrations       S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free		
value), duration 11 ms           Extended ambient conditions           Pollutant concentrations           -SO2 at RH < 60% without condensation	· · ·	
Pollutant concentrations         S02 at RH < 60% without condensation	• tested according to IEC 60068-2-27	
- SO2 at RH < 60% without condensation	Extended ambient conditions	
Configuration         Programming         Programming language         - LAD       Yes         - FBD       Yes         - SCL       Yes         Know-how protection       Yes         User program protection/password protection       Yes         Copy protection       Yes         Block protection       Yes         Protection level: Write protection       Yes         Protection level: Write protection       Yes         Protection level: Complete protection       Yes         Outer monitoring       Yes         e adjustable       Yes         Width       130 mm         Height       100 mm         Depth       75 mm	Pollutant concentrations	
Programming         Programming language         -LAD       Yes         -FBD       Yes         -SCL       Yes         Know-how protection       Yes         •User program protection/password protection       Yes         •Opy protection       Yes         •Block protection       Yes         •Block protection       Yes         •Protection level: Write protection       Yes         •Protection level: Write protection       Yes         •Protection level: Complete protection       Yes         •Protection level: Complete protection       Yes         • Protection level: Complete protection       Yes         •Opy time monitoring       Yes         • adjustable       Yes         Dimensions       Yes         Width       130 mm         Height       100 mm         Depth       75 mm	— SO2 at RH < 60% without condensation	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
Programming language         - LAD       Yes         - FBD       Yes         - SCL       Yes         Know-how protection       Yes         • User program protection/password protection       Yes         • Opy protection       Yes         • Block protection       Yes         • Block protection       Yes         • Protection level: Write protection       Yes         • Protection level: Read/write protection       Yes         • Protection level: Complete protection       Yes         • Protection level: Complete protection       Yes         Cycle time monitoring       Yes         • adjustable       Yes         Dimensions       Yes         Width       130 mm         Height       100 mm         Depth       75 mm	Configuration	
- LADYes- FBDYes- SCLYesKnow-how protectionYes• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Block protectionYes• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Option level: Complete protectionYes• adjustableYesDimensionsYesWidth130 mmHeight100 mmDepthYes main		
FBD     Yes       SCL     Yes       Know-how protection     Yes       • User program protection/password protection     Yes       • Copy protection     Yes       • Block protection     Yes       • Protection level: Write protection     Yes       • Protection level: Write protection     Yes       • Protection level: Complete protection     Yes       • Protection level: Complete protection     Yes       • Cycle time monitoring     Yes       • adjustable     Yes       • Dimensions     Yes       Width     130 mm       Height     100 mm       Depth     75 mm		Vac
SCL       Yes         Know-how protection       Yes         • User program protection/password protection       Yes         • Copy protection       Yes         • Block protection       Yes         • Block protection       Yes         • Protection level: Write protection       Yes         • Protection level: Write protection       Yes         • Protection level: Complete protection       Yes         • Protection level: Complete protection       Yes         Cycle time monitoring       Yes         • adjustable       Yes         Dimensions       Yes         Width       130 mm         Height       100 mm         Depth       75 mm		
Know-how protection       Yes         • User program protection/password protection       Yes         • Copy protection       Yes         • Block protection       Yes         • Block protection       Yes         • Protection level: Write protection       Yes         • Protection level: Read/write protection       Yes         • Protection level: Complete protection       Yes         • Protection level: Complete protection       Yes         • Adjustable       Yes         Dimensions       Yes         Width       130 mm         Height       100 mm         Depth       75 mm		
• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Access protectionYes• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• adjustableYesDimensionsYesWidth130 mmHeight100 mmDepth75 mm		
• Copy protectionYes• Block protectionYes• Access protectionYes• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYes• AdjustableYes• adjustableYes• DimensionsYesWidth130 mmHeight100 mmDepth75 mm	·	Vec
• Block protection       Yes         • Access protection       Yes         • Protection level: Write protection       Yes         • Protection level: Read/write protection       Yes         • Protection level: Complete protection       Yes         • Protection level: Complete protection       Yes         • adjustable       Yes         Dimensions       Yes         Width       130 mm         Height       100 mm         Depth       75 mm		
Access protection       Yes         • Protection level: Read/write protection       Yes         • Protection level: Complete protection       Yes         • adjustable       Yes         Dimensions       Yes         Width       130 mm         Height       100 mm         Depth       75 mm		
• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYesCycle time monitoringYes• adjustableYesDimensionsYesWidth130 mmHeight100 mmDepth75 mm	·	165
<ul> <li>Protection level: Read/write protection</li> <li>Protection level: Complete protection</li> <li>Yes</li> <li>Cycle time monitoring         <ul> <li>adjustable</li> <li>Yes</li> </ul> </li> <li>Dimensions         <ul> <li>Width</li> <li>130 mm</li> <li>100 mm</li> <li>Depth</li> <li>75 mm</li> </ul> </li> </ul>		Vec
• Protection level: Complete protection     Yes       Cycle time monitoring     Yes       • adjustable     Yes       Dimensions     130 mm       Width     130 mm       Height     100 mm       Depth     75 mm	·	
Cycle time monitoring       • adjustable       Dimensions       Width     130 mm       Height     100 mm       Depth     75 mm		
• adjustable     Yes       Dimensions     130 mm       Width     130 mm       Height     100 mm       Depth     75 mm		
Dimensions       Width     130 mm       Height     100 mm       Depth     75 mm		Yes
Width     130 mm       Height     100 mm       Depth     75 mm		
Height     100 mm       Depth     75 mm	Dimensions	
Depth 75 mm		
Weights		
	Deptn	/5 mm
Weight, approx. 500 g	Weights	
	Weight, approx.	500 g

last modified: