## **SIEMENS**

## **Data sheet**

6ES7212-1AE40-0XB0



SIMATIC S7-1200, CPU 1212C, compact CPU, DC/DC/DC, onboard I/O: 8 DI 24 V DC; 6 DO 24 V DC; 2 AI 0-10 V DC, Power supply: DC 20.4-28.8V DC, Program/data memory 75 KB

General information	
Product type designation	CPU 1212C DC/DC/DC
Firmware version	V4.4
Engineering with	
<ul> <li>Programming package</li> </ul>	STEP 7 V16 or higher
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Load voltage L+	
<ul><li>Rated value (DC)</li></ul>	24 V
<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V
<ul> <li>permissible range, upper limit (DC)</li> </ul>	28.8 V
Input current	
Current consumption (rated value)	400 mA
Current consumption, max.	1 200 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.	1 000 mA; Max. 5 V DC for SM and CM
Encoder supply	
24 V encoder supply	
• 24 V	L+ minus 4 V DC min.
Power loss	
Power loss, typ.	9 W
Memory	
Work memory	
<ul><li>integrated</li></ul>	75 kbyte
• expandable	No
Load memory	
<ul><li>integrated</li></ul>	2 Mbyte
<ul> <li>Plug-in (SIMATIC Memory Card), max.</li> </ul>	with SIMATIC memory card
Backup	
<ul><li>present</li></ul>	Yes
<ul> <li>maintenance-free</li> </ul>	Yes

<ul><li>without battery</li></ul>	Yes
CPU processing times	
	0.08 µs; / instruction
for bit operations, typ. for word operations, typ.	1.7 μs; / instruction
for floating point arithmetic, typ.	·
2.1	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	
Number, max.	Limited only by RAM for code
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	10 kbyte
Flag	
Number, max.	4 kbyte; Size of bit memory address area
Local data	
per priority class, max.	16 kbyte
Address area	
Process image	
<ul> <li>Inputs, adjustable</li> </ul>	1 kbyte
<ul> <li>Outputs, adjustable</li> </ul>	1 kbyte
Hardware configuration	
Number of modules per system, max.	3 comm. modules, 1 signal board, 2 signal modules
Time of day	
Clock	
Hardware clock (real-time)	Yes
Backup time	480 h; Typical
Digital inputs	100 II, Typical
	9: Integrated
Number of digital inputs  of which inputs usable for technological functions	8; Integrated 6; HSC (High Speed Counting)
Source/sink input	Yes
Number of simultaneously controllable inputs	163
all mounting positions	
— up to 40 °C, max.	8
Input voltage	0
Rated value (DC)	24 V
• for signal "0"	5 V DC at 1 mA
• for signal "1"	15 V DC at 1111A
Input delay (for rated value of input voltage)	10 V BO at 2.3 HIM
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
parametenzable	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	6
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
<del></del> , ··· <del></del> ··	

● 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" to "1", max.	1 μs
• "1" to "0", max.	5 μs
Switching frequency	
of the pulse outputs, with resistive load, max.	100 kHz
Relay outputs	
Number of relay outputs	0
Cable length	
• shielded, max.	500 m
<ul><li>unshielded, max.</li></ul>	150 m
Analog inputs	
Number of analog inputs	2
Input ranges	
Voltage	Yes
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	≥100k ohms
Cable length	
shielded, max.	100 m; twisted and shielded
Analog outputs	
Number of analog outputs	0
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	10 bit
Integration time, parameterizable	Yes
Conversion time (per channel)	625 µs
Encoder	020 μ3
Connectable encoders  • 2-wire sensor	Yes
	Tes
1. Interface	PROFINET
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	V
RJ 45 (Ethernet)      Number of parts	Yes
Number of ports     integrated suitab	1 Na
• integrated switch	No
Protocols	Voc
PROFINET IO Controller     PROFINET IO Povice	Yes
PROFINET IO Device     SIMATIC communication	Yes
SIMATIC communication	Yes
Open IE communication     Web correct	Yes; Optionally also encrypted
Web server	Yes
- Madia madusada::	
Media redundancy  PROFINITION OF THE PROFILE THE	No
PROFINET IO Controller	
PROFINET IO Controller  • Transmission rate, max.	100 Mbit/s
PROFINET IO Controller  • Transmission rate, max.  Services	100 Mbit/s
PROFINET IO Controller  • Transmission rate, max.	

IRT PROFIenergy Prioritized startup Number of IO devices with prioritized startup, max Number of connectable IO Devices, max Number of connectable IO Devices for RT, max Number of connectable IO Devices for RT, max of which in line, max of which in line, max Activation/deactivation of IO Devices Number of IO Devices that can be simultaneously activated/deactivated, max Updating time Updating time Important IO Devices PG/OP communication Isochronous mode IRT PROFINET IO Device Number of IO Controllers with shared device, max PROFIenergy Shared device Number of IO Controllers with shared device, max.  PROFIDED Number of IO Controllers with shared device, max PROFICE PROFINET IO PROFINET IO PROFINET IO PROFINET IO PROFICE Number of IO Controllers with shared device, max PROFICE Number of IO Controllers with shared device, max PROFICE Number of IO Controllers with shared device, max PROFICE Number of IO Controllers with shared device, max PROFICE Number of IO Controllers with shared device, max Updating time also depends on the communication omponent set for PROFINET IO, on the number of IO devices and the quantity of configured user data.  PROFICE IO Device Number of IO Controllers with shared device, max The minimum value of the update time also depends on the communication omponent set for PROFINET IO, on the number of IO devices and the quantity of configured user data.  PROFICE III The minimum value of the update time also depends on the communication omponent set for PROFINET IO, on the number of IO devices and the quantity of configured user data.  PROFICE III The minimum value of the update time also depends on the communication omponent set for PROFINET IO, on the number of IO devices and the quantity of configured user data.  PROFILE III The minimum value of the update time also depends on the communication omponent set for PROFINET IO, on the number of I	<ul><li>— PROFlenergy</li><li>— Prioritized startup</li></ul>	
Prioritized startup Number of ICD devices with prioritized startup, max Number of connectable IO Devices, max Number of connectable IO Devices for RT, max Of which in line, max Of which in line, max Activation/deactivation of IO Devices Number of ID Devices that can be simultaneously activated/deactivated, max Updating time Ves Number of ID Devices that can be simultaneously activated/deactivated, max Updating time Implementation of ICD Devices and the quantity of configured user data.  PROFINET IO Device PG/OP communication	— Prioritized startup	No
- Number of IO devices with prioritized startup, max.  - Number of connectable IO Devices, max.  - Number of connectable IO Devices for RT, max.  - Of which in line, max.  - Of which in line, max.  - Activation/deactivation of IO Devices  - Number of IO Devices that can be 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.  PROFINET IO Device  Services  - PG/OP communication - Isochronous mode - IRT - PROFIenergy - Shared device - Number of IO Controllers with shared device, max.  Protocols  Supports protocol for PROFINET IO PROFIBUS - AS-Interface - PROFINET IO PROFINET IO Yes - PROFIBUS - Yes; CM 1243-5 (master) or CM 1242-5 (slave) required  AS-Interface - Yes; CM 1243-2 required  Protocols (Ethernet)  • TCP/IP • DHCP • No • SNMP • DCP • LLDP - Yes  Redundancy mode  Media redundancy - MRP - MRP - MRP - MRP - MRP - MRP - No SIMATIC communication	·	
max.  Number of connectable IO Devices, max.  Number of connectable IO Devices for RT, max.  of which in line, max.  Activation/deactivation of IO Devices  Number of IO Devices that can be 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.  PROFINET IO Device  Services  PG/OP communication  IRT  No  PROFIenergy  Shared device  Number of IO Controllers with shared device, max.  Protocols  Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  Trey IP  Yes  PHOP  No  SIMMP  LIDP  No  No  No  No  IRP  No  No  No  No  No  No  No  No  No  N	Number of IO devices with prioritized startus	Yes
- Number of connectable IO Devices, max Number of connectable IO Devices for RT, max of which in line, max Activation/deactivation of IO Devices - Number of IO Devices that can be simultaneously activated/deactivated, max Updating time - Number of IO Devices that can be 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.  PROFINET IO Device - PROFINET IO Device - Services - PG/OP communication - Isochronous mode - IRT - PROFIenergy - Shared device - Number of IO Controllers with shared device, max.  Protocols - Supports protocol for PROFINET IO - PROFIBUS - AS-Interface - Yes; CM 1243-5 (master) or CM 1242-5 (slave) required - PROFIBUS - SNMP - OHCP - OHCP - No - SNMP - OCP - LLDP - MRP - MRP - MRPD - No - SIMATIC communication		16
Number of connectable IO Devices for RT, max.  of which in line, max.  Activation/deactivation of IO Devices Number of IO Devices that can be simultaneously activated/deactivated, max.  Updating time  Updating time  Updating time  Updating time  Ves munication component set for PROFINET IO, on the number of IC devices and the quantity of configured user data.  PROFINET IO Device  PROFINET IO Device  Services  PG/OP communication Isochronous mode IRT PROFIenergy Shared device Number of IO Controllers with shared device, max.  Protocols  Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) TCP/IP DHCP No SNMP DCP LLDP No MRP MRP MRP MRP MRP MRP MRPD MRPD SIMATIC communication		
max.  — of which in line, max.  — Activation/deactivation of IO Devices  — Number of IO Devices that can be 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.  PROFINET IO Device  Services  — PG/OP communication — Isochronous mode — IRT — No — PROFIenergy — Shared device — Number of IO Controllers with shared device, max.  Protocols  Supports protocol for PROFINET IO PROFIBUS — Yes: CM 1243-5 (master) or CM 1242-5 (slave) required  AS-Interface Protocols (Ethernet)  • TCP/IP • OPICP • No • SNMP • DCP • LLDP  Redundancy mode  Media redundancy — MRP — MRP — MRP — MRP — MRP  No SIMATIC communication	·	
of which in line, max Activation/deactivation of IO Devices Number of IO Devices that can be simultaneously activated/deactivated, max Updating time	·	16
Number of IO Devices that can be simultaneously activated/deactivated, max Updating time  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 Isochronous mode IRT PROFIenergy 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 LLDP Yes LLDP MRP MRP MRP MRPD M		
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 IC devices and the quantity of configured user data.  PROFINET IO Device  Services  — PG/OP communication — Isochronous mode — IRT — No — PROFlenergy — Shared device — Number of IO Controllers with shared device, max.  Protocols  Supports protocol for PROFINET IO — Yes PROFIBUS — AS-Interface — Yes; CM 1243-5 (master) or CM 1242-5 (slave) required  Protocols (Ethernet)  • TCP/IP • DHCP • SNMP • DHCP • SNMP • DCP • SNMP • DCP • LLDP  Redundancy mode  Media redundancy — MRP — MRP — MRP — MRPD — MRPD No  SIMATIC communication		
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communication component set for PROFINET IO, on the number of IC devices and the quantity of configured user data.  PROFINET IO Device  Services	-	The minimum value of the undate time also depends on the
PROFINET IO Device  Services	— Opdating time	
Services		
- PG/OP communication Yes   - Isochronous mode	PROFINET IO Device	
- Isochronous mode - IRT - 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 • DHCP • DCP • LLDP PREdundancy mode  Media redundancy - MRP - MRP - MRPD SIMATIC communication	Services	
— IRT         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 (master) or CM 1242-5 (slave) required           AS-Interface         Yes; CM 1243-2 required           Protocols (Ethernet)         Yes           ● TCP/IP         Yes           ● DHCP         No           ● SNMP         Yes           ● DCP         Yes           ● LLDP         Yes           Redundancy mode         Media redundancy           — MRP         No           — MRPD         No           SIMATIC communication         No	— PG/OP communication	Yes
- IRT - 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 • SNMP • DHCP • LLDP Redundancy mode  Media redundancy - MRP - MRPD SIMATIC communication		No
- Shared device Yes - Number of IO Controllers with shared device, max.  Protocols  Supports protocol for PROFINET IO Yes PROFIBUS Yes; CM 1243-5 (master) or CM 1242-5 (slave) required  AS-Interface Yes; CM 1243-2 required  Protocols (Ethernet)  • TCP/IP Yes • DHCP No • SNMP Yes • DCP • LLDP Yes  Redundancy mode  Media redundancy - MRP - MRPD SIMATIC communication		
- 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 PROFIDUS  Redundancy mode Media redundancy - MRP - MRPD SIMATIC communication		
Protocols  Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)  • TCP/IP • DHCP • DHCP • DCP • LLDP Redundancy mode Media redundancy — MRP — MRPD SIMATIC communication		
Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet)  • TCP/IP • DHCP • SNMP • DCP • LLDP  Redundancy mode  Media redundancy — MRP — MRPD  SUMATIC communication  Yes Yes Yes Yes Yes  Yes  Yes  Yes  Y		_
Supports protocol for PROFINET IO  PROFIBUS  AS-Interface  Protocols (Ethernet)  TCP/IP  DHCP  SNMP  DCP  LLDP  Redundancy mode  Media redundancy  MRPD  MRPD  SIMATIC communication		
PROFIBUS         Yes; CM 1243-5 (master) or CM 1242-5 (slave) required           AS-Interface         Yes; CM 1243-2 required           Protocols (Ethernet)         Yes           • TCP/IP         Yes           • DHCP         No           • SNMP         Yes           • DCP         Yes           • LLDP         Yes           Redundancy mode         Media redundancy           — MRP         No           — MRPD         No           SIMATIC communication         No		Yes
AS-Interface         Yes; CM 1243-2 required           Protocols (Ethernet)         Yes           ● TCP/IP         Yes           ● DHCP         No           ● SNMP         Yes           ● DCP         Yes           ● LLDP         Yes           Redundancy mode         Media redundancy           — MRP         No           — MRPD         No           SIMATIC communication         No		
Protocols (Ethernet)		
		Tes, OW 1240-2 required
● DHCP     ● SNMP     ● DCP     ● LLDP     Yes     ● LLDP     Yes  Redundancy mode  Media redundancy     — MRP     — MRPD     No  SIMATIC communication		Voc
● LLDP Yes  Redundancy mode  Media redundancy  — MRP — MRPD No  SIMATIC communication		
Redundancy mode  Media redundancy  — MRP  — MRPD  No  SIMATIC communication		
Media redundancy  — MRP  — MRPD  No  SIMATIC communication		Yes
— MRP No — MRPD No SIMATIC communication	-	
— MRPD No SIMATIC communication	•	
SIMATIC communication		No
		No
• S7 routing Yes		
	-	Yes
Open IE communication	Open IE communication	
• TCP/IP Yes	• TCP/IP	Yes
— Data length, max. 8 kbyte	— Data length, max.	8 kbyte
— several passive connections per port, Yes		Yes
supported		
• ISO-on-TCP (RFC1006) Yes	• ISO-on-TCP (RFC1006)	Yes
— Data length, max. 8 kbyte	— Data length, max.	8 kbyte
• UDP Yes	• UDP	Yes
— Data length, max. 1 472 byte	— Data length, max.	1 472 byte
Web server	Veb server	
• supported Yes	• supported	Yes
• User-defined websites Yes		Yes
OPC UA		
Runtime license required     Yes		Yes
<ul> <li>OPC UA Server</li> <li>Yes; Data access (read, write, subscribe), runtime license required</li> </ul>		
— Number of sessions, max. 5		
— Number of accessible variables, max. 1 000		
— Sampling interval, min. 100 ms		
— Publishing interval, min. 200 ms	— Publishing interval, min.	ZUU IIIS

<ul> <li>Number of monitored items, max.</li> </ul>	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	100
S7 communication	
	Yes
• supported	Yes
as server     as alient	
• as client	Yes
User data per job, max.	See online help (S7 communication, user data size)
Number of connections	O connections for an an upon communication (active or necessary)
• 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	
<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 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)	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	No
between the channels, in groups of	1
EMC	
Interference immunity against discharge of static electricity	Voe
<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	V
<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	ce 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	
<ul> <li>Limit class A, for use in industrial areas</li> </ul>	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	
IP degree of protection	IP20
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
Ambient conditions	
Free fall	
• Fall height, max.	0.3 m
Ambient temperature during operation	
• min.	-20 °C
• max.	60 °C; Number of simultaneously activated inputs or outputs 4 or 3 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 8 or 6 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
Installation altitude, max.	2 000 m
Relative humidity	
Operation, max.	95 %; no condensation
Vibrations	
<ul> <li>Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>	2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
<ul> <li>Operation, tested according to IEC 60068-2-6</li> </ul>	Yes
Shock testing	
• tested according to IEC 60068-2-27	Yes
Configuration	
Programming	
Programming language	
— LAD	Yes
	100

— FBD	Yes
— SCL	Yes
Know-how protection	
<ul> <li>User program protection/password protection</li> </ul>	Yes
Copy protection	Yes
Block protection	Yes
Access protection	
<ul> <li>Protection level: Write protection</li> </ul>	Yes
<ul> <li>Protection level: Read/write protection</li> </ul>	Yes
Protection level: Complete protection	Yes
Cycle time monitoring	
<ul><li>adjustable</li></ul>	Yes
Dimensions	
Width	90 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	370 g

1/16/2021

last modified: