SIEMENS

Data sheet

6ES7212-1HE40-0XB0

SIMATIC S7-1200, CPU 1212C, compact CPU, DC/DC/relay, onboard I/O: 8 DI 24 V DC; 6 DO relay 2 A; 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/relay
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)	400 mA; CPU only
Current consumption, max.	1 200 mA; CPU with all expansion modules

Inrush current, max.	12 A; at 28.8 V
l²t	0.8 A ² ·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	
• integrated	75 kbyte
	No
expandable lead memory	140
Load memory	2 Mbyte
• integrated	with SIMATIC memory card
Plug-in (SIMATIC Memory Card), max.	with SilviATiC memory card
Backup	Yes
• present	
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
OB	
• 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.	4 kbyte; Size of bit memory address area
Address area	
Process image	
Inputs, adjustable	1 kbyte
Outputs, adjustable	1 kbyte

Number of modules per system, max.	3 comm. modules, 1 signal board, 2 signal modules
ramber of medales per system, max.	o comm. modulos, i signal bodia, 2 signal modulos
ime of day	
Clock	
 Hardware clock (real-time) 	Yes
Backup time	480 h; Typical
Deviation per day, max.	±60 s/month at 25 °C
igital inputs	
Number of digital inputs	8; 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.	8
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 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
igital outputs	
Number of digital outputs	6; Relays
Switching capacity of the outputs	
with resistive load, max.	2 A
• on lamp load, max.	30 W with DC, 200 W with AC
Output delay with resistive load	
• "0" to "1", max.	10 ms; max.
• "1" to "0", max.	10 ms; max.

Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Yes Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Yes 1. Interface Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Autorossing Interface types Number of ports integrated switch No Protocols PROFINET IO Controller Yes	Relay outputs	
Cable length Shielded, max. Shown is unshielded, max. Shown is unshielded Shown is unshielded, max. Shown is unshielded Shown is unshielded Shown is unshielded, max. Shown is unshielded, max. Shown is unshielded, max. Shown is unshielded, max. Shown is unshielded Shown is unshielded, max. Shown is unshielded. Shown is unshielded, max. Shown is unshielded. Shown is u	Number of relay outputs	6
Cable length • shielded, max. • unshielded, max. 150 m Analog inputs Number of analog inputs • shielded, max. 2 input ranges • Voltage • Voltage 10 to +10 V 10 to +10 V 10 input resistance (0 to 10 V) 2 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. • Integration time, parameterizable • Conversion time (per channel) • 2-wire sensor Yes Interface type PROFINET Physics Ethemet Isolated automatic detection of transmission rate Ves Autorosping • Number of ports • Integrated witch Ves Autorosping • Number of ports • Integrated switch No Protocols • PROFINET IO Controller Ves • Number of ports • Integrated switch No Protocols • PROFINET IO Controller	 Number of operating cycles, max. 	mechanically 10 million, at rated load voltage 100 000
• unshielded, max. Analog inputs Number of analog inputs • Voltage • Voltage • Voltage • Voltage • Voltage • Voltage • Vote Input ranges (rated values), voltages • Input ranges (rated values), voltages • Input resistance (0 to 10 V) • Input resistance (0 to 10 V) • Input resistance (0 to 10 V) Cable length • shielded, max. 100 m; twisted and shielded Analog outputs Number of analog outputs • Resolution with overrange (bit including sign), max. • Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) • Conversion time (per channel) • 2-wire sensor Yes Interface Interface type PROFINET Physics Ethernet Isolated Yes Autonegotiation Yes Autorossing Yes • Number of ports • Integrated switch No Protocols • PROFINET IO Controller		
Number of analog inputs Number of analog inputs • Voltage • Voltage • Voltage • Voltage • Voltage • O to +10 V • Input resistance (0 to 10 V) Cable length • shielded, max. 100 m; twisted and shielded Analog outputs Number of analog outputs O Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) • Cable length • Conversion time (per channel) Frocder Connectable encoders • 2-wire sensor 1. Interface Interface type Physics Ethernet Isolated automatic detection of transmission rate Yes Autorogotiation Yes • Number of ports • Number of ports • Number of ports • Interface types • Number of ports • Number of ports • Interface types • Number of ports • Number of ports • Interface types • Number of ports • Number of ports • Number of ports • Integrated switch No Protocols • PROFINET IO Controller	• shielded, max.	500 m
Analog inputs Number of analog inputs • Voltage • Voltage Input ranges • Voltage 10 to +10 V • Input resistance (0 to 10 V) Cable length • shielded, max. 100 m; twisted and shielded Analog outputs Number of analog outputs O Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor Yes 1. Interface Interface type Physics Ethernet Isolated automatic detection of transmission rate Ves Autorogotiation Autorossing • Number of ports • Interface types • Number of ports • Number of ports • Number of ports • Interface types • Number of ports • Number of ports • Interface types • Number of ports • Number of ports • Interface types • Number of ports • Number of ports • Integrated switch No Protocols • PROFINET IO Controller	• unshielded, max.	150 m
Number of analog inputs 2 Input ranges • Voltage Yes Input ranges (rated values), voltages • 10 to +10 V Yes • Input resistance (0 to 10 V) ≥100k ohms Cable length • shielded, max. 100 m; twisted and shielded Analog outputs 0 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. • Integration time, parameterizable yes • Conversion time (per channel) 425 μs Encoder Ves Connectable encoders • 2-wire sensor • 2-wire sensor Yes 1. Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Yes Autoregotiation Yes Autorossing Yes integrated switch No Protocols • PROFINET IO Controller		
Input ranges • Voltage • Voltage 1 rout ranges (rated values), voltages • 0 to +10 V • Input resistance (0 to 10 V) Cable length • shielded, max. Analog outputs Number of analog outputs • Resolution with overrange (bit including sign), max. • Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) • Conversion time (per channel) Frescoder Connectable encoders • 2-wire sensor Yes 1. Interface Interface type PROFINET Physics Solated Yes automatic detection of transmission rate Autocrossing Yes Ves Ves Interface types PROFINET (yes Conversion time (ports) Interface types Profice (yes) Interface type (yes) Profice (yes) Interface type (yes) Interface types PROFINET (yes) Interface types PROFINET (yes) Interface types PROFINET (yes) Integrated switch (yes) PROFINET (IO Controller) PROFINET (IO Controller) Yes		
Protocols • Voltage • Voltages Input ranges (rated values), voltages • 0 to +10 V • Input resistance (0 to 10 V) • Input resistance (0 to 10 V) • Input resistance (0 to 10 V) • shielded, max. • Shielded, max. Integration and go utputs • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) • Conversion time (per channel) • Ves • Conversion time (per channel) PROFINET Interface Interface type PROFINET Autonossing Yes • Autocrossing Yes • Number of ports • integrated switch No Protocols • PROFINET IO Controller		2
Input ranges (rated values), voltages • 0 to +10 V • Input resistance (0 to 10 V) 2100k ohms Cable length • shielded, max. 100 m; twisted and shielded Analog outputs Number of analog outputs O Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor Yes Interface type Physics Ethernet Isolated automatic detection of transmission rate Autonegotiation Yes Autocrossing Yes • Number of ports • integrated switch No Protocols • PROFINET IO Controller Yes		Voc
• 0 to +10 V • Input resistance (0 to 10 V) ≥ 100k ohms Cable length • shielded, max. 100 m; twisted and shielded Analog outputs Number of analog outputs O Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor Yes 1. Interface Interface type PROFINET Physics Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • Number of ports • integrated switch PROFINET IO Controller PROFINET IO Controller	<u> </u>	res
• Input resistance (0 to 10 V) Cable length • shielded, max. 100 m; twisted and shielded Analog outputs Number of analog outputs 100 m; twisted and shielded Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable Yes • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor 1. Interface Interface type PROFINET Physics Ethernet Isolated automatic detection of transmission rate Yes Autonogotiation Autocrossing Yes Interface types • Number of ports • integrated switch PROFINET IO Controller Yes		Ver
Cable length • shielded, max. Analog outputs Number of analog outputs O Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable Yes • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor Yes Interface Interface type PROFINET Physics Ethernet Isolated automatic detection of transmission rate Autorossing Autocrossing Number of ports • Integrated switch No Protocols • PROFINET IO Controller Yes		
• shielded, max. Analog outputs Number of analog outputs O Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable Yes • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor Yes Interface Interface type Physics Ethernet Isolated automatic detection of transmission rate Autorossing Interface types • Number of ports • integrated switch Protocols • PROFINET IO Controller Yes		≥1UUK ONMS
Analog outputs Number of analog outputs O Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable Yes • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor Yes 1. Interface Interface type Prysics Isolated automatic detection of transmission rate Autonegotiation Yes Autocrossing Yes • Number of ports • integrated switch Protocols • PROFINET IO Controller Yes		100 mg to distant and abjudged
Number of analog outputs Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Yes Conversion time (per channel) Encoder Connectable encoders 2-wire sensor Yes 1. Interface Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Autorossing Interface types Number of ports integrated switch No Protocols PROFINET IO Controller Yes	• shielded, max.	100 m; twisted and shielded
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Yes Conversion time (per channel) Connectable encoders 2-wire sensor Yes Interface Interface type PROFINET Physics Ethernet Isolated automatic detection of transmission rate Autonegotiation Autorossing Interface types Number of ports Number of ports integrated switch No Protocols PROFINET IO Controller Yes	Analog outputs	
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 Connectable encoders ● 2-wire sensor Yes 1. Interface Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Yes Autorossing Yes Interface types • Number of ports 1 • Number of ports 1 • integrated switch No Protocols • PROFINET IO Controller Yes	Number of analog outputs	0
Resolution with overrange (bit including sign), max. Integration time, parameterizable Yes Conversion time (per channel) 625 μs Encoder Connectable encoders 2-wire sensor Yes Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Yes Autorossing Yes Interface types Number of ports integrated switch No Protocols PROFINET IO Controller Yes	Analog value generation for the inputs	
max. • Integration time, parameterizable • Conversion time (per channel) Encoder Connectable encoders • 2-wire sensor Yes Interface Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Autorogotiation Autocrossing Interface types • Number of ports • integrated switch Protocols • PROFINET IO Controller Yes		
Integration time, parameterizable Conversion time (per channel) Connectable encoders	 Resolution with overrange (bit including sign), 	10 bit
Conversion time (per channel) Connectable encoders 2-wire sensor PROFINET Physics Ethernet Isolated Autonegotiation Autocrossing Number of ports integrated switch PROFINET IO Controller Yes 625 µs FROFINET PROFINET PROFINET PROFINET PROFINET PROFINET No Protocols PROFINET IO Controller Yes	max.	
Encoder Connectable encoders • 2-wire sensor Yes 1. Interface Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Autonegotiation Yes Autocrossing Interface types • Number of ports • integrated switch Protocols • PROFINET IO Controller Yes	 Integration time, parameterizable 	Yes
Connectable encoders • 2-wire sensor Yes 1. Interface Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Autorossing Interface types • Number of ports • integrated switch PROFINET IO Controller Yes Yes Yes Yes Yes Yes Yes Y	Conversion time (per channel)	625 µs
Perofiner sensor Yes Interface Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Autonegotiation Yes Autorossing Interface types Number of ports integrated switch Protocols PROFINET IO Controller Yes Yes Yes Yes Yes Yes Yes Y	Encoder	
Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Yes Autonegotiation Yes Autocrossing Yes Interface types • Number of ports • integrated switch No Protocols • PROFINET IO Controller Yes	Connectable encoders	
Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Yes Autonegotiation Yes Autocrossing Yes Interface types • Number of ports • integrated switch No Protocols • PROFINET IO Controller Yes	• 2-wire sensor	Yes
Interface type PROFINET Physics Ethernet Isolated Yes automatic detection of transmission rate Yes Autonegotiation Yes Autocrossing Yes Interface types • Number of ports • integrated switch No Protocols • PROFINET IO Controller Yes	1. Interface	
Isolated Automatic detection of transmission rate Autonegotiation Autocrossing Interface types Number of ports integrated switch Protocols PROFINET IO Controller Yes Yes 1 No Yes		PROFINET
automatic detection of transmission rate Autonegotiation Yes Autocrossing Yes Interface types Number of ports integrated switch Protocols PROFINET IO Controller Yes Yes Yes Yes	Physics	Ethernet
Autorossing Autorossing Interface types Number of ports integrated switch Protocols PROFINET IO Controller Yes Yes Yes Yes	Isolated	Yes
Autocrossing Interface types Number of ports integrated switch Protocols PROFINET IO Controller Yes	automatic detection of transmission rate	Yes
Interface types • Number of ports • integrated switch Protocols • PROFINET IO Controller Yes	Autonegotiation	Yes
 Number of ports integrated switch Protocols PROFINET IO Controller Yes	Autocrossing	Yes
integrated switch Protocols PROFINET IO Controller Yes	Interface types	
Protocols ● PROFINET IO Controller Yes	Number of ports	1
PROFINET IO Controller Yes	• integrated switch	No
	Protocols	
	PROFINET IO Controller	Yes
PROFINET IO Device Yes	PROFINET IO Device	Yes
SIMATIC communication Yes	SIMATIC communication	Yes

• Onen IF communication	Yes
Open IE communication	Yes
Web server	
Media redundancy PROFINET IO Controller	No
PROFINET IO Controller	100 Mbit/s
• Transmission rate, max.	100 Mibius
Services	Ver
— PG/OP communication	Yes
— S7 routing	Yes
— Isochronous mode	No
— Open IE communication	Yes
— IRT	No
— MRP	No
— 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.	40
— of which in line, max.	16 V
Activation/deactivation of IO Devices	Yes
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8
	The minimum value of the update time also depends on the
— Updating time	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	No
— MRPD	No
— PROFlenergy	Yes
— Shared device	Yes
 Number of IO Controllers with shared 	2
device, max.	
Dratagala	
Protocols Supports protocol for PROFINET IO	Yes
oupports protocorror i NOI INC I IO	100

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	Yes
• LLDP	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
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)
Number of connections	cee of life telp (or communication, user data size)
• overall	16; dynamically
- Overan	10, 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
Interrupts/diagnostics/status information	

Diagnostics indication LED	
• RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
Integrated Functions	
Number of counters	4
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	Up to 4 with SB 1222
PID controller	Yes
Number of alarm inputs	4
Potential separation	
Potential separation digital inputs	
Potential separation digital inputs	500V AC for 1 minute
between the channels, in groups of	1
Potential separation digital outputs	
Potential separation digital outputs	Relays
• between the channels	No
• between the channels, in groups of	2
EMC	
Interference immunity against conducted variable distur	rhance induced by high-frequency fields
Interference immunity against high-frequency	Yes
radiation acc. to IEC 61000-4-6	, 55
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
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes

Ambient conditions	
Free fall	
● Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
● min.	-20 °C
● max.	60 °C; Number of simultaneously activated inputs or outputs 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
 horizontal installation, min. 	-20 °C
 horizontal installation, max. 	60 °C
• vertical installation, min.	-20 °C
 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
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	
 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	
• 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
— SCL	Yes
Know-how protection	
 User program protection/password protection 	Yes

Copy protection	Yes
 Block protection 	Yes
Access protection	
Protection level: Write protection	Yes
 Protection level: Read/write protection 	Yes
 Protection level: Complete protection 	Yes
Cycle time monitoring	
• adjustable	Yes
Dimensions	
Width	90 mm
Height	
neight	100 mm
Depth	100 mm 75 mm
Depth	