SIEMENS

Data sheet

6ES7212-1BE40-0XB0



Figure similar

SIMATIC S7-1200, CPU 1212C, compact CPU, AC/DC/relay, onboard I/O: 8 DI 24 V DC; 6 DO relay 2 A; 2 AI 0-10 V DC, Power supply: AC 85-264 V AC at 47-63 Hz, Program/data memory 75 KB

General information	
Product type designation	CPU 1212C AC/DC/relay
Firmware version	V4.5
Engineering with	
 Programming package 	STEP 7 V17 or higher
Supply voltage	
Rated value (AC)	
• 120 V AC	Yes
• 230 V AC	Yes
permissible range, lower limit (AC)	85 V
permissible range, upper limit (AC)	264 V
Line frequency	
 permissible range, lower limit 	47 Hz
permissible range, upper limit	63 Hz
Input current	
Current consumption (rated value)	80 mA at 120 V AC; 40 mA at 240 V AC
Current consumption, max.	240 mA at 120 V AC; 120 mA at 240 V AC
Inrush current, max.	20 A; at 264 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	20.4 to 28.8V
Power loss	
Power loss, typ.	11 W
Memory	
Work memory	
integrated	75 kbyte
expandable	No
Load memory	
integrated	2 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 two	1.7 us: / instruction
for word operations, typ.	1.7 μs; / instruction 2.3 μs; / instruction
for floating point arithmetic, typ. CPU-blocks	2.0 μο, / Inotituotion
	DRs ECs ERs counters and timers. The maximum number of
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. Flag	14 kbyte
• Size, max.	4 kbyte; Size of bit memory address area
Local data	
per priority class, max.	16 kbyte; Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB
Address area	
Process image	
Inputs, adjustable	1 kbyte
Outputs, adjustable	1 kbyte
Hardware configuration	
Number of modules per system, max.	3 comm. modules, 1 signal board, 2 signal modules
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	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. — at "0" to "1", max.	0.2 ms 12.8 ms
for interrupt inputs	12.0 1115
— 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; 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.
Relay outputs	
Number of relay outputs Number of expecting evolve, may	6 mechanically 10 million, at rated load voltage 100 000
 Number of operating cycles, max. 	mechanically to million at rated load voltage 100 000
Cable length	The charled by 10 million, at rated load voltage 100 000

shielded, max.	500 m
snielded, max.unshielded, max.	150 m
Analog inputs	100 111
Number of analog inputs	2
Input ranges	V
Voltage Input range (rated values) valtages	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
·	100 III, 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	
Connectable encoders	
2-wire sensor	Yes
1. Interface	
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
• RJ 45 (Ethernet)	Yes
Number of ports	1
• integrated switch	No
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
SIMATIC communication	Yes
Open IE communication	Yes; Optionally also encrypted
Web server	Yes
Media redundancy	No
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
— PG/OP communication	Yes; encryption with TLS V1.3 pre-selected
— Isochronous mode	No
— IRT	No
— PROFlenergy	No
Prioritized startup	Yes
 Number of IO devices with prioritized startup, 	16
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 simultaneously activated department of max.	8
simultaneously activated/deactivated, max.	8
	8 The minimum value of the update time also depends on the
simultaneously activated/deactivated, max.	8
simultaneously activated/deactivated, max.	The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO
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
simultaneously activated/deactivated, max. — Updating time PROFINET IO Device	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.
simultaneously activated/deactivated, max. — Updating time PROFINET IO Device Services	The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO
simultaneously activated/deactivated, max. — Updating time PROFINET IO Device Services — PG/OP communication	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. Yes; encryption with TLS V1.3 pre-selected

— Shared device	Yes
Number of IO Controllers with shared device,	2
max.	2
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	
OPC UA	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required Yes; OPC UA Server
AS-Interface	
	Yes; CM 1243-2 required
Protocols (Ethernet) • TCP/IP	Yes
• DHCP	No Yes
• SNMP	Yes
DCP LLDP	Yes
	Yes
Redundancy mode	
Media redundancy	N
— MRP	No
— MRPD	No
SIMATIC communication	Vec
• S7 routing	Yes
Open IE communication	V
• TCP/IP	Yes
— Data length, max.	8 kbyte
• ISO-on-TCP (RFC1006)	Yes
— Data length, max.	8 kbyte
• UDP	Yes
— Data length, max.	1 472 byte
Web server	
supported	Yes
User-defined websites	Yes
OPC UA	
 Runtime license required 	Yes; "Basic" license required
OPC UA Server	Yes; data access (read, write, subscribe), method call, runtime license
	required
 Application authentication 	Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256
Llean authorities in	
User authentication	"anonymous" or by user name & password
Number of sessions, max.	10
Number of subscriptions per session, max.	5
— Sampling interval, min.	100 ms
— Publishing interval, min.	200 ms
Number of server methods, max.	20
 Number of monitored items, recommended max. 	1 000
Number of server interfaces, max.	2
Number of server interfaces, max. Number of nodes for user-defined server.	2 000
interfaces, max.	2 000
Further protocols	
MODBUS	Yes
communication functions / header	
S7 communication	V
• supported	Yes
• as server	Yes
as client	Yes
User data per job, max.	See online help (S7 communication, user data size)
Number of connections	DO 0
overall	PG Connections: 4 reserved / 4 max; HMI Connections: 12 reserved / 18 max; S7 Connections: 8 reserved / 14 max; Open User Connections:
	8 reserved / 14 max; Web Connections: 2 reserved / 30 max; OPC UA
	Connections: 0 reserved / 10 max; Total Connections: 34 reserved / 64
	max
Test commissioning functions	
Status/control • Status/control variable	Yes

Forting For	 Variables 	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Diagnostic suffer Yes	Forcing	
races Number of configurable Traces Number of configurable Traces Number of configurable Traces Number of configurable Traces Number of positioning axes with pulse-direction interface PIPO controlled positioning axes with pulse-direction interface Potential separation digital inputs Potential separation digital	Forcing	Yes
Number of configurable Traces • Number of position-controlled positioning axes, max • Number of position-controlled positioning axes, max • Number of position-controlled positioning axes, max • Number of positioning axes via pulse-direction interface PIO controller • Number of position-controlled positioning axes, max • Number of positioning axes via pulse-direction interface PIO controller • Number of position-controlled positioning axes, max	Diagnostic buffer	
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Memory size per trace, max Interrupts/diagnostics/states information Diagnostics indication LED RUNISTOP LED RU	Traces	
Interrupts (diagnostics /status information Diagnostics indication LED • RINNSTOP ED • RROR LED • RROR LED • MAINT LED Yes Interrated Functions Frequency measurement controlled positioning axes, max. Number of position-controlled positioning axes, max. Number of positioning axes via pulse-direction interface Plocential separation digital inputs • Potential separation digital outputs • P	-	
Diagnostics indication LED RUNSTOP LED RUNSTOP LED REMAINT LED RE	Memory size per trace, max.	512 kbyte
RUNNSTOP LED ERROR LED Wes MAINT LED Wes MINDER of position-controlled positioning axes, max. Number of position-controlled positioning axes, max. Number of position-controlled positioning axes, max. Number of position-controlled positioning axes, wax. Number of position-controlled positioning axes, wax. Number of positioning axes via pulse-direction interface PID controlled Wes Number of slarm inputs Potential separation digital duptus Potential separation digital outputs	Interrupts/diagnostics/status information	
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Interference immunity against discharge of static electricity ■ Interference immunity against discharge of 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 to supply lines acc. to IEC 61000-4-4 ■ Interference immunity on supply lines acc. to IEC 61000-4-4 ■ Interference immunity against voltage surge ■ Interference immunity against voltage surge ■ Interference immunity against voltage surge ■ Interference immunity against tonducted variable disturbance induced by high-frequency fields ■ Interference immunity against tigh-frequency radiation acc. to IEC 61000-4-6 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 IP20 Standards, approvals, cortificates CE mark Yes UL approval Yes EM approval Yes FM approval Yes RCM (formerty C-TICK) Yes Marine approval Yes Ambient conditions Free fall ■ Fall height, max. 0.3 m; five times, in product package	 between the channels 	No
Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity ac. to IEC 61000-4-2 — Test voltage at air discharge 8 kV — Test voltage at contact discharge 6 kV Interference immunity to subje-borne interference Interference immunity on supply lines acc. to IEC 61000-4-4 Interference immunity on supply lines acc. to IEC 61000-4-4 Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against stonducted variable disturbance induced by high-frequency fields Interference immunity against ingh-frequency radiation acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Limit class B, for use in residential areas Yes; Group 1 Yes; Group 1 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 IP degree of protection IP degree of protection IP 20 Standards, approvals, certificates CE mark Yes Yes UL approval Yes FM approval Yes FM approval Yes KC approval Yes Marine approval Yes Ambient conditions Free fall Fall height, max. 0.3 m; five times, in product package	 between the channels, in groups of 	2
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- Test voltage at air discharge		Yes
- Test voltage at contact discharge 6 kV Interference immunity to cable-borne interference	•	
Interference immunity to cable-borne interference Interference immunity on supply lines acc. to IEC (61000-4-4) Interference immunity on signal cables acc. to IEC (61000-4-4) Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC (61000-4-5) Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against nigh-frequency radiation acc. to IEC 61000-4-6 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 IP degree of protection IP20 Standards, approvals, certificates CE mark Yes UL approval Yes CULus Yes FM approval Yes RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes Marine approval Yes Marine approval Yes Marine approval Yes Marine approval Free fall Fall height, max. O.3 m; five times, in product package		
 Interference immunity on supply lines acc. to IEC 61000-4-4 Interference immunity against voltage surge Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas 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 UL approval Yes Gullus Yes FM approval Yes KC approval Yes Marine approval Yes Marine approval Ambient conditions Free fall Fall height, max. 0.3 m; five times, in product package 		6 KV
61000-4-4 Interference immunity on signal cables acc. to IEC 61000-4-4 Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Limit class B, for use in residential areas Limit class B, for use in residential areas Limit class of protection IP degree and class of protection IP degree of protection IP20 Standards, approvals, certificates CE mark UL approval Ves Yes Yes Yes Yes Yes Yes CULus Yes FM approval Yes RCM (formerly C-TICK) Yes Marine approval Ambient conditions Free fall Fall height, max. O.3 m; five times, in product package	•	Vac
Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 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 IP degree of protection IP degree of protection IP20 Standards, approvals, certificates CE mark UL approval Yes UL approval Yes FM approval RCM (formerly C-TICK) Yes KC approval Marine approval Armbient conditions Free fall Fall height, max. 0.3 m; five times, in product package	, ,,,,	165
Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Limit class B, for use in residential 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 IP degree of protection IP 20 Standards, approvals, certificates CE mark UL approval Ves UL approval Ves FM approval Yes FM approval RCM (formerly C-TICK) Yes KC approval Marine approval Yes Ambient conditions Free fall Fall height, max. 0.3 m; five times, in product package	 Interference immunity on signal cables acc. to IEC 	Yes
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Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 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 IP degree of protection IP20 Standards, approvals, certificates CE mark UL approval CH Appro	, , , , , , , , , , , , , , , , , , , ,	
Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Limit class B, for use in residential areas Limit class B, for use in residential areas Pegree and class of protection IP degree of protection IP degree of protection IP 20 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. Pes 5011 Yes Yes Yes Yes Yes Yes Yes Y		Yes
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◆ 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		
the limits for Class B according to EN 55011 Degree and class of protection IP degree of protection Standards, approvals, certificates CE mark UL approval CULus FM approval RCM (formerly C-TICK) KC approval Marine approval Marine approval Ambient conditions Free fall Fall height, max. • Fall height, max.	·	
Degree and class of protection IP degree of protection 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. Fall height, max. IP20 Yes Yes Yes Yes Yes Yes Yes Ye	 Limit class B, for use in residential areas 	
IP degree of protection 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. IP20 Yes Yes Yes Yes Yes Yes Yes Ye	Dograp and class of protection	THE HITHES TOLI CHASS IS ACCORDING TO EIN 330 LT
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 Ye		ID20
CE mark UL approval CULus Yes FM approval RCM (formerly C-TICK) Yes KC approval Yes Marine approval Ambient conditions Free fall Fall height, max. Yes Yes Yes Yes Yes Yes Yes An product package	-	II ZV
UL approval CULus Yes FM approval RCM (formerly C-TICK) Yes KC approval Yes Marine approval Yes Ambient conditions Free fall Fall height, max. Yes 0.3 m; five times, in product package		Vec
CULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall Fall height, max. Yes Yes Yes Yes Yes O.3 m; five times, in product package		
FM approval RCM (formerly C-TICK) Yes KC approval Yes Marine approval Yes Ambient conditions Free fall Fall height, max. Yes 0.3 m; five times, in product package		
RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall Fall height, max. 9.3 m; five times, in product package		
KC approval Marine approval Ambient conditions Free fall Fall height, max. 9.3 m; five times, in product package		
Marine approval Ambient conditions Free fall Fall height, max. O.3 m; five times, in product package	· · · · · · · · · · · · · · · · · · ·	
Ambient conditions Free fall • Fall height, max. 0.3 m; five times, in product package		
Free fall • Fall height, max. 0.3 m; five times, in product package	• •	
• Fall height, max. 0.3 m; five times, in product package		
		0.3 m; five times, in product package

• 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	10.00
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	705 L D
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.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
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	
Pollutant concentrations ■ SO2 at RH < 60% without condensation	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
SO2 at RH < 60% without condensation	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
SO2 at RH < 60% without condensation configuration / header	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
SO2 at RH < 60% without condensation configuration / header configuration / programming / header	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language	
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD	Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD	Yes Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL	Yes Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection	Yes Yes Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection	Yes Yes Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection	Yes Yes Yes Yes Yes Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection	Yes Yes Yes Yes Yes Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection	Yes Yes Yes Yes Yes Yes Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection	Yes Yes Yes Yes Yes Yes Yes Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection	Yes Yes Yes Yes Yes Yes Yes Yes Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection	Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection	Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header	Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • adjustable	Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • adjustable Dimensions Width	Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • adjustable Dimensions Width Height	Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • adjustable Dimensions Width Height Depth	Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • adjustable Dimensions Width Height Depth Weights	Yes
SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • adjustable Dimensions Width Height Depth	Yes