## SIEMENS

## Data sheet

## 6ES7214-1HF40-0XB0



SIMATIC S7-1200F, CPU 1214 FC, compact CPU, DC/DC/relay, onboard I/O: 14 DI 24 V DC; 10 DO relay 2 A; 2 Al 0-10 V DC, power supply: DC 20.4-28.8 V DC, program/data memory 200 KB



General information	
Product type designation	CPU 1214FC DC/DC/Relay
Firmware version	V4.6
Engineering with	
<ul> <li>Programming package</li> </ul>	STEP 7 V18 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
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)	500 mA; CPU only
Current consumption, max.	1 500 mA; CPU with all expansion modules
Inrush current, max.	12 A; at 28.8 V
l²t	0.8 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.
Power loss	
Power loss, typ.	12 W
Memory	
Work memory	
integrated	200 kbyte
Load memory	
integrated	4 Mbyte
<ul> <li>Plug-in (SIMATIC Memory Card), max.</li> </ul>	with SIMATIC memory card
Backup	
• present	Yes
maintenance-free	Yes
<ul> <li>without battery</li> </ul>	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), max.	14 kbyte
Flag	
• Size, 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
<ul> <li>Outputs, adjustable</li> </ul>	1 kbyte
Hardware configuration	
Number of modules per system, max.	3 comm. modules, 1 signal board, 8 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	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	
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
Digital outputs	
Number of digital outputs	10; 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	
<ul> <li>Number of relay outputs</li> </ul>	10

Number of examples and a	manufactionally 40 millions, at material lands with man 400,000
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000
Cable length	
• shielded, max.	500 m
• unshielded, max.	150 m
Analog inputs	
Number of analog inputs	2
Input ranges	
Voltage	Yes
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	≥100k ohms
Cable length	
• shielded, max.	100 m; twisted and shielded
Analog outputs	
Number of analog outputs	0
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	10 bit
<ul> <li>Integration time, parameterizable</li> </ul>	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
	Yes
SIMATIC communication     Open IE communication	
Open IE communication	Yes; Optionally also encrypted
<ul><li> Open IE communication</li><li> Web server</li></ul>	Yes; Optionally also encrypted Yes
<ul><li> Open IE communication</li><li> Web server</li><li> Media redundancy</li></ul>	Yes; Optionally also encrypted
<ul> <li>Open IE communication</li> <li>Web server</li> <li>Media redundancy</li> <li>PROFINET IO Controller</li> </ul>	Yes; Optionally also encrypted Yes No
Open IE communication     Web server     Media redundancy PROFINET IO Controller     Transmission rate, max.	Yes; Optionally also encrypted Yes
Open IE communication     Web server     Media redundancy PROFINET IO Controller     Transmission rate, max. Services	Yes; Optionally also encrypted Yes No 100 Mbit/s
Open IE communication     Web server     Media redundancy PROFINET IO Controller     Transmission rate, max. Services     — PG/OP communication	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected
Open IE communication     Web server     Media redundancy  PROFINET IO Controller      Transmission rate, max.  Services      — PG/OP communication     — Isochronous mode	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No
Open IE communication     Web server     Media redundancy  PROFINET IO Controller     Transmission rate, max.  Services     — PG/OP communication     — Isochronous mode     — IRT	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No
Open IE communication     Web server     Media redundancy  PROFINET IO Controller      Transmission rate, max.  Services      — PG/OP communication     — Isochronous mode     — IRT     — PROFIenergy	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No
Open IE communication     Web server     Media redundancy PROFINET IO Controller      Transmission rate, max. Services     — PG/OP communication     — Isochronous mode     — IRT     — PROFlenergy     — Prioritized startup	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No Yes
Open IE communication     Web server     Media redundancy  PROFINET IO Controller      Transmission rate, max.  Services      — PG/OP communication     — Isochronous mode     — IRT     — PROFIenergy     — Prioritized startup     — Number of IO devices with prioritized startup, max.	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No No Yes 16
Open IE communication     Web server     Media redundancy  PROFINET IO Controller      Transmission rate, max.  Services      — PG/OP communication     — Isochronous mode     — IRT     — PROFIenergy     — Prioritized startup     — Number of IO devices with prioritized startup, max.     — Number of connectable IO Devices, max.	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No Yes 16
Open IE communication     Web server     Media redundancy  PROFINET IO Controller      Transmission rate, max.  Services      PG/OP communication     Isochronous mode     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.	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No No 16 16
<ul> <li>Open IE communication</li> <li>Web server</li> <li>Media redundancy</li> </ul> PROFINET IO Controller <ul> <li>Transmission rate, max.</li> </ul> Services <ul> <li>PG/OP communication</li> <li>Isochronous mode</li> <li>IRT</li> <li>PROFlenergy</li> <li>Prioritized startup</li> <li>Number of IO devices with prioritized startup, max.</li> <li>Number of connectable IO Devices, max.</li> <li>Number of connectable IO Devices for RT, max.</li> <li>of which in line, max.</li> </ul>	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No Yes 16 16 16
<ul> <li>Open IE communication</li> <li>Web server</li> <li>Media redundancy</li> </ul> PROFINET IO Controller <ul> <li>Transmission rate, max.</li> </ul> Services <ul> <li>PG/OP communication</li> <li>Isochronous mode</li> <li>IRT</li> <li>PROFIenergy</li> <li>Prioritized startup</li> <li>Number of IO devices with prioritized startup, max.</li> <li>Number of connectable IO Devices, max.</li> <li>Of which in line, max.</li> <li>Activation/deactivation of IO Devices</li> </ul>	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No No Yes 16 16 16 16
<ul> <li>Open IE communication</li> <li>Web server</li> <li>Media redundancy</li> </ul> PROFINET IO Controller <ul> <li>Transmission rate, max.</li> </ul> Services <ul> <li>PG/OP communication</li> <li>Isochronous mode</li> <li>IRT</li> <li>PROFlenergy</li> <li>Prioritized startup</li> <li>Number of IO devices with prioritized startup, max.</li> <li>Number of connectable IO Devices, max.</li> <li>Number of connectable IO Devices for RT, max.</li> <li>of which in line, max.</li> <li>Activation/deactivation of IO Devices</li> <li>Number of IO Devices that can be simultaneously</li> </ul>	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No Yes 16 16 16
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<ul> <li>Open IE communication</li> <li>Web server</li> <li>Media redundancy</li> </ul> PROFINET IO Controller <ul> <li>Transmission rate, max.</li> </ul> Services <ul> <li>PG/OP communication</li> <li>Isochronous mode</li> <li>IRT</li> <li>PROFlenergy</li> <li>Prioritized startup</li> <li>Number of IO devices with prioritized startup, max.</li> <li>Number of connectable IO Devices, max.</li> <li>Number of connectable IO Devices for RT, max.</li> <li>of which in line, max.</li> <li>Activation/deactivation of IO Devices</li> <li>Number of IO Devices that can be simultaneously</li> </ul>	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No Yes 16 16 16 16 16 16 8 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
<ul> <li>Open IE communication</li> <li>Web server</li> <li>Media redundancy</li> </ul> PROFINET IO Controller <ul> <li>Transmission rate, max.</li> </ul> Services <ul> <li>PG/OP communication</li> <li>Isochronous mode</li> <li>IRT</li> <li>PROFIenergy</li> <li>Prioritized startup</li> <li>Number of IO devices with prioritized startup, max.</li> <li>Number of connectable IO Devices, max.</li> <li>Number of connectable IO Devices for RT, max.</li> <li>of which in line, max.</li> <li>Activation/deactivation of IO Devices</li> <li>Number of IO Devices that can be simultaneously activated/deactivated, max.</li> <li>Updating time</li> </ul>	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No Yes 16 16 16 16 16 16 38 The minimum value of the update time also depends on the communication
<ul> <li>Open IE communication</li> <li>Web server</li> <li>Media redundancy</li> </ul> PROFINET IO Controller <ul> <li>Transmission rate, max.</li> </ul> Services <ul> <li>PG/OP communication</li> <li>Isochronous mode</li> <li>IRT</li> <li>PROFIenergy</li> <li>Prioritized startup</li> <li>Number of IO devices with prioritized startup, max.</li> <li>Number of connectable IO Devices, max.</li> <li>Number of connectable IO Devices for RT, max.</li> <li>of which in line, max.</li> <li>Activation/deactivation of IO Devices</li> <li>Number of IO Devices that can be simultaneously activated/deactivated, max.</li> </ul>	Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No Yes 16 16 16 16 16 16 8 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
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— Isochronous mode	No
— IRT	No
— PROFlenergy	Yes
— Shared device	Yes
<ul> <li>Number of IO Controllers with shared device, max.</li> </ul>	2
Protocols Supports protocol for DDOEINET IO	Yes
Supports protocol for PROFINET IO	Yes
PROFIsafe	
PROFIBUS OPC UA	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required
AS-Interface	Yes; OPC UA Server
	Yes; CM 1243-2 required
Protocols (Ethernet)  TCP/IP	Vee
	Yes
	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Open IE communication	Vee
• 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	
<ul> <li>supported</li> </ul>	Yes
User-defined websites	Yes
OPC UA	
<ul> <li>Runtime license required</li> </ul>	Yes; "Basic" license required
OPC UA Server	Yes; data access (read, write, subscribe), method call, runtime license required
<ul> <li>Application authentication</li> </ul>	Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256
— User authentication	"anonymous" or by user name & password
— Number of sessions, max.	10
<ul> <li>Number of subscriptions per session, max.</li> </ul>	5
— Sampling interval, min.	100 ms
— Publishing interval, min.	200 ms
<ul> <li>— Number of server methods, max.</li> </ul>	20
<ul> <li>— Number of monitored items, recommended max.</li> </ul>	1 000
<ul> <li>Number of server interfaces, max.</li> </ul>	2
<ul> <li>Number of nodes for user-defined server interfaces,</li> </ul>	2 000
max.	
Further protocols	
• MODBUS	Yes
communication functions / header	
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	
• 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
Variables	inputs/outputs, bit memories, DBs, peripheral I/Os (without fail-safe), times, counters
Forcing	
TORING	

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	
Counter	
Number of counters	6
Counting frequency, 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	
<ul> <li>Potential separation digital inputs</li> </ul>	500 V AC for 1 minute
<ul> <li>between the channels, in groups of</li> </ul>	1
Potential separation digital outputs	
<ul> <li>Potential separation digital outputs</li> </ul>	Relays
<ul> <li>between the channels</li> </ul>	No
<ul> <li>between the channels, in groups of</li> </ul>	2
EMC	
Interference immunity against discharge of static electricity	
<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 all discharge     — Test voltage at contact discharge	6 kV
Interference immunity to cable-borne interference	
Interference immunity to cable bonne interference     Interference immunity on supply lines acc. to IEC 61000-	Yes
4-4	
Interference immunity on signal cables acc. to IEC 61000-	Yes
4-4	
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 indu	iced by high-frequency fields
Interference immunity against conducted valuable alcarbance indu	Yes
acc. to IEC 61000-4-6	
Emission of radio interference acc. to EN 55 011	
<ul> <li>Limit class A, for use in industrial areas</li> </ul>	Yes; Group 1
<ul> <li>Limit class B, for use in residential areas</li> </ul>	Yes; When appropriate measures are used to ensure compliance with the limits
Degree and class of protection	for Class B according to EN 55011
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
Ecological footprint	
environmental product declaration	Yes
Global warming potential	

alabel warming notantial (total) [CO2 an]	
<ul> <li>global warming potential, (total) [CO2 eq]</li> </ul>	111 kg
— global warming potential, (during production) [CO2	20.1 kg
eq] — global warming potential, (during operation) [CO2	91.5 kg
eq]	
<ul> <li>global warming potential, (after end of life cycle)</li> <li>[CO2 eq]</li> </ul>	-0.896 kg
Highest safety class achievable in safety mode	
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	PLe
• SIL acc. to IEC 61508	SIL 3
mbient conditions	
Free fall	
<ul> <li>Fall height, max.</li> </ul>	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	0°0
• max.	55 °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>	0°C
<ul> <li>horizontal installation, max.</li> </ul>	55 °C
• vertical installation, min.	0 °C
vertical installation, max.	45 °C
Ambient temperature during storage/transportation	
	40 °C
• min.	-40 °C
	70 °C
Air pressure acc. to IEC 60068-2-13	
<ul> <li>Operation, min.</li> </ul>	795 hPa
<ul> <li>Operation, max.</li> </ul>	1 080 hPa
<ul> <li>Storage/transport, min.</li> </ul>	660 hPa
<ul> <li>Storage/transport, max.</li> </ul>	1 080 hPa
Altitude during operation relating to sea level	
<ul> <li>Installation altitude, min.</li> </ul>	-1 000 m
<ul> <li>Installation altitude, max.</li> </ul>	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 g (m/s <sup>2</sup> ) wall mounting, 1 g (m/s <sup>2</sup> ) DIN rail
2-6	
· · ·	Yes
2-6	Yes
<ul><li>2-6</li><li>Operation, tested according to IEC 60068-2-6</li></ul>	Yes Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value),
2-6 • Operation, tested according to IEC 60068-2-6 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),
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header configuration / programming / header	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header Configuration / programming / header Programming language	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header Configuration / programming / header Programming language — LAD	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header Configuration / programming / header Programming language — LAD — FBD	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header configuration / programming / header Programming language - LAD - FBD - SCL	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header configuration / programming / header Programming language - LAD - FBD - SCL Know-how protection	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header Configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes Yes
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header configuration / programming / header Programming language - LAD - FBD - SCL Know-how protection	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header Configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes Yes
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header Configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes Yes
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header Configuration / programming / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes Yes
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header configuration / header Programming language - LAD - FBD - SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes Yes Yes Yes
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header Configuration / header Programming language LAD FBD SCL Know-how protection • User program protection/password protection • Copy protection • Block protection • Block protection • protection of confidential configuration data • Protection level: Write protection	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes Yes Yes Yes Yes
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header Configuration / programming / header Programming language LAD FBD SCL Know-how protection • User program protection/password protection • Copy protection • Block protection Block protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes Yes Yes Yes Yes
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header configuration / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection • Block protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes Yes Yes Yes Yes
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header configuration / programming / header Programming language - LAD - FBD - SCL Know-how protection • User program protection/password protection • Copy protection • Block protection • Block 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; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes Yes Yes Yes Yes Yes Yes
2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Pollutant concentrations • SO2 at RH < 60% without condensation onfiguration / header configuration / header Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection • Block protection • Block protection • protection of confidential configuration data • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Yes; incl. failsafe Yes; incl. failsafe Yes Yes Yes Yes Yes

last modified:	10/9/2024	
Weight, approx.	435 g	
Weights		
Depth	75 mm	
Height	100 mm	

11/11/2024