## **SIEMENS**

## **Data sheet**



SIPLUS S7-1200 CPU 1214FC DC/DC/DC based on 6ES7214-1AF40-0XB0 with conformal coating, -25...+55 °C, compact CPU, DC/DC/DC, onboard I/O: 14 DI 24 V DC; 10 DQ 24 V DC; 2 AI 0-10 V DC, power supply: DC 20.4-28.8 V DC, program/data memory 125 KB

Product type designation  Engineering with  STEP 7 TIA Portal configurable/integrated from version  Supply voltage  Rated value (DC)  - 24 V DC  permissible range, upper limit (DC)  20 a V  permissible range, lower limit (DC)  - 24 voltage L+  - Rated value (DC)  - permissible range, lower limit (DC)  - permissible range, upper limit (DC)  - permissible range, lower	General information	
STEP 7 TIA Portal configurable/integrated from version  Supply voltage  Rated value (DC)  • 24 V DC  permissible range, lower limit (DC)  permissible range, upper limit (DC)  • 20.4 V  permissible range, lower limit (DC)  • Parmissible range, upper li	Product type designation	CPU 1214FC DC/DC/DC
Rated value (DC)	Engineering with	
Rated value (DC)	STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275
• 24 ∨ DC permissible range, lower limit (DC) permissible range, upper limit (DC) 22.8 ∨ Load voltage L+  • Rated value (DC) • permissible range, lower limit (DC) 24 ∨ • permissible range, lower limit (DC) 25.8 ∨  Input current  Current consumption, max.   1 500 mA; max. with all expansion accessories limush current, max.   1 2 A; at 28.8 ∨ DC  Encoder supply 24 ∨ encoder supply 24 ∨ encoder supply • 24 ∨	Supply voltage	
permissible range, lower limit (DC)  permissible range, upper limit (DC)  Load voltage L+  • Rated value (DC) • permissible range, lower limit (DC)  permissible range, lower limit (DC) • permissible range, lower limit (DC) • permissible range, lower limit (DC) • permissible range, upper limit (DC)  permissible range, upper limit (DC)  permissible range, upper limit (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  permiss	Rated value (DC)	
permissible range, upper limit (DC)  Load voltage L+  Rated value (DC)  permissible range, lower limit (DC)  permissible range, lower limit (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  28.8 V  Input current  Current consumption, max.  1 500 mA; max. with all expansion accessories  Inrush current, max.  12 A; at 28.8 V DC  Encoder supply  24 V encoder supply  24 V encoder supply  24 V w  L+ minus 4 V DC min.  Power loss, typ.  Memory  integrated  permissible range, upper limit (DC)  12 W  Memory  integrated  125 kbyte  Load memory  integrated  Plug-in (SIMATIC Memory Card), max.  with SIMATIC memory card  Backup  present  without battery  Yes; maintenance-free  without battery  Yes; maintenance-free  yes  CPU processing times  for bit operations, typ.  1.7 µs; / instruction  for word operations, typ.  for word operations, typ.  1.7 µs; / instruction  for word operations, typ.  Publicks  Number of blocks (total)  1 024; OBs, FBs, FCs, DBs  Number, max.  Limited only by RAM for code  Data areas and their retentivity	• 24 V DC	Yes
Load voltage L+  • Rated value (DC)  • permissible range, lower limit (DC)  • permissible range, upper limit (DC)  • permissible range, upper limit (DC)  28.8 V  Input current  Current consumption, max. 1 500 mA; max. with all expansion accessories linush current, max. 1 2 A; at 28.6 V DC  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 125 kbyte  Load memory  • integrated 4 Mbyte  • Plug-in (SIMATIC Memory Card), max. with SIMATIC memory card  Backup  • present Yes; maintenance-free  • without battery Yes  CPU processing times  for bit operations, typ. 0.08 µs; / instruction for word operations, typ. 1.7 µs; / instruction for word operations, typ. 2.3 µs; / Operation  CPU-blocks  Number of blocks (total) 1 104; OBS, FBs, FCs, DBs  OB  • Number, max. Limited only by RAM for code	permissible range, lower limit (DC)	20.4 V
Rated value (DC)  permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC)  28.8 V  Input current  Current consumption, max. 1500 mA; max. with all expansion accessories Inrush current, max. 12 A; at 28.8 V DC  Encoder supply  24 V encoder supply  24 V encoder supply  24 V pc min.  Power loss, typ.  Wemory  Work memory  integrated 125 kbyte  Load memory  integrated 4 Mbyte Plug-in (SIMATIC Memory Card), max. with SIMATIC memory card  Backup  present Yes; maintenance-free without battery Yes  CPU processing times  for bit operations, typ. 0.08 µs; / instruction for word operations, typ. 1.7 µs; / instruction for word operations, typ. 2.3 µs; / Operation  CPU-blocks  Number of blocks (total) 1 024; OBs, FBs, FCs, DBs  OB  Number, max. Limited only by RAM for code	permissible range, upper limit (DC)	28.8 V
permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V  Input current Current consumption, max. Inrush current, max.  1 500 mA; max. with all expansion accessories Inrush current, max.  1 2 A; at 28.8 V DC  Encoder supply 24 V encoder supply 24 V	Load voltage L+	
permissible range, upper limit (DC)	<ul><li>Rated value (DC)</li></ul>	24 V
Input current  Current consumption, max. 1 500 mA; max. with all expansion accessories Inrush current, max. 12 A; at 28.8 V DC  Encoder supply  24 V encoder supply  • 24 V	<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V
Current consumption, max.  Inrush current, m	<ul> <li>permissible range, upper limit (DC)</li> </ul>	28.8 V
Inrush current, max.  Encoder supply  24 V encoder supply  • 24 V	Input current	
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 125 kbyte  Load memory  • integrated 4 Mbyte  • Plug-in (SIMATIC Memory Card), max. with SIMATIC memory card  Backup  • present Yes; maintenance-free  • 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; / Operation  CPU-blocks  Number of blocks (total) 1 024; OBs, FBs, FCs, DBs  • Number, max. Limited only by RAM for code	Current consumption, max.	1 500 mA; max. with all expansion accessories
24 V encoder supply  • 24 V  L+ minus 4 V DC min.  Power loss  Power loss, typ.  12 W  Memory  Work memory  • integrated  125 kbyte  Load memory  • integrated  • Plug-in (SIMATIC Memory Card), max. with SIMATIC memory card  Backup  • present  • present  • without battery  Yes; maintenance-free  • without battery  CPU processing times  for bit operations, typ.  for word operations, typ.  for floating point arithmetic, typ.  CPU-blocks  Number of blocks (total)  OB  • Number, max.  Limited only by RAM for code  Data areas and their retentivity	Inrush current, max.	12 A; at 28.8 V DC
• 24 V     Power loss Power loss, typ.  Power loss, typ.  Memory  Work memory      • integrated     • Plug-in (SIMATIC Memory Card), max.  Backup      • present     • without battery  Por bit operations, typ.  for bit operations, typ.  for floating point arithmetic, typ.  CPU-blocks  Number of blocks (total)  OB  Number, max.  Limited only by RAM for code  Pata with SIMATIC meins (Pombin Card)  A Mbyte  A Missing Name or arithmetic free  Yes; maintenance-free  Yes  CPU-blocks  Number of blocks (total)  1 024; OBs, FBs, FCs, DBs  OB  Number, max.  Limited only by RAM for code	Encoder supply	
Power loss, typ. 12 W  Memory  Work memory  integrated 125 kbyte  Load memory  integrated 4 Mbyte Plug-in (SIMATIC Memory Card), max. with SIMATIC memory card  Backup  present Yes; maintenance-free without battery Yes  for bit operations, typ. 0.08 µs; / instruction for word operations, typ. 1.7 µs; / instruction for floating point arithmetic, typ. 2.3 µs; / Operation  CPU-blocks  Number of blocks (total) 1 024; OBs, FBs, FCs, DBs  Number, max. Limited only by RAM for code	24 V encoder supply	
Power loss, typ. 12 W  Memory  Work memory  • integrated 125 kbyte  Load memory  • integrated 4 Mbyte  • Plug-in (SIMATIC Memory Card), max. with SIMATIC memory card  Backup  • present Yes; maintenance-free  • 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; / Operation  CPU-blocks  Number of blocks (total) 1 024; OBs, FBs, FCs, DBs  OB  • Number, max. Limited only by RAM for code	• 24 V	L+ minus 4 V DC min.
Memory         Work memory          • integrated        125 kbyte          Load memory          • integrated        4 Mbyte          • Plug-in (SIMATIC Memory Card), max.       with SIMATIC memory card         Backup          • present        Yes; maintenance-free          • without battery       Yes         CPU processing times          • not operations, typ.        0.08 μs; / instruction         for bit operations, typ.       1.7 μs; / instruction         for floating point arithmetic, typ.       2.3 μs; / Operation         CPU-blocks         Number of blocks (total)       1 024; OBs, FBs, FCs, DBs         OB          • Number, max.       Limited only by RAM for code         Data areas and their retentivity	Power loss	
Work memory	Power loss, typ.	12 W
integrated  Load memory  integrated  Plug-in (SIMATIC Memory Card), max.  Backup  present  with SIMATIC memory card  Yes; maintenance-free  without battery  Yes  CPU processing times  for bit operations, typ.  for word operations, typ.  1.7   ps; / instruction  for floating point arithmetic, typ.  2.3   ps; / Operation  CPU-blocks  Number of blocks (total)  Number, max.  Limited only by RAM for code  Data areas and their retentivity	Memory	
Load memory  integrated Plug-in (SIMATIC Memory Card), max.  Backup  present without battery  CPU processing times  for bit operations, typ.  for word operations, typ.  for floating point arithmetic, typ.  CPU-blocks  Number of blocks (total)  Number, max.  Limited only by RAM for code  Data areas and their retentivity	Work memory	
<ul> <li>integrated</li> <li>Plug-in (SIMATIC Memory Card), max.</li> <li>with SIMATIC memory card</li> </ul> Backup <ul> <li>present</li> <li>without battery</li> <li>Yes</li> </ul> CPU processing times <ul> <li>for bit operations, typ.</li> <li>for word operations, typ.</li> <li>for floating point arithmetic, typ.</li> <li>2.3 µs; / Operation</li> </ul> CPU-blocks <ul> <li>Number of blocks (total)</li> <li>1 024; OBs, FBs, FCs, DBs</li> </ul> OB <ul> <li>Number, max.</li> <li>Limited only by RAM for code</li> </ul> Data areas and their retentivity	• integrated	125 kbyte
<ul> <li>Plug-in (SIMATIC Memory Card), max.</li> <li>Backup</li> <li>present</li> <li>without battery</li> <li>Yes</li> <li>CPU processing times</li> <li>for bit operations, typ.</li> <li>for word operations, typ.</li> <li>for floating point arithmetic, typ.</li> <li>CPU-blocks</li> <li>Number of blocks (total)</li> <li>Number, max.</li> <li>Data areas and their retentivity</li> </ul> with SIMATIC memory card Yes <ul> <li>O.08 μs; / instruction</li> <li>1.7 μs; / instruction</li> <li>2.3 μs; / Operation</li> </ul> CPU-blocks <ul> <li>Number of blocks (total)</li> <li>1 024; OBs, FBs, FCs, DBs</li> </ul> OB <ul> <li>Limited only by RAM for code</li> </ul>	Load memory	
Backup  ● present  ● without battery  CPU processing times  for bit operations, typ.  for word operations, typ.  for floating point arithmetic, typ.  CPU-blocks  Number of blocks (total)  Number, max.  Data areas and their retentivity  Yes; maintenance-free  Yes; maintenance-free  Yes  1.7 μs; / instruction  1.7 μs; / instruction  1.7 μs; / Operation	• integrated	4 Mbyte
<ul> <li>◆ present</li> <li>◆ without battery</li> <li>Yes</li> </ul> CPU processing times for bit operations, typ. <ul> <li>for word operations, typ.</li> <li>for floating point arithmetic, typ.</li> <li>CPU-blocks</li> </ul> Number of blocks (total) <ul> <li>↑ 1024; OBs, FBs, FCs, DBs</li> </ul> OB <ul> <li>♦ Number, max.</li> <li>Limited only by RAM for code</li> </ul> Data areas and their retentivity	<ul> <li>Plug-in (SIMATIC Memory Card), max.</li> </ul>	with SIMATIC memory card
● without battery  CPU processing times  for bit operations, typ.  for word operations, typ.  for floating point arithmetic, typ.  CPU-blocks  Number of blocks (total)  Number, max.  Number, max.  Limited only by RAM for code  Data areas and their retentivity	Backup	
CPU processing times  for bit operations, typ.  for word operations, typ.  1.7 μs; / instruction  for floating point arithmetic, typ.  2.3 μs; / Operation  CPU-blocks  Number of blocks (total)  Number, max.  Limited only by RAM for code  Data areas and their retentivity	• present	Yes; maintenance-free
for bit operations, typ.  for word operations, typ.  for floating point arithmetic, typ.  CPU-blocks  Number of blocks (total)  Number, max.  Number, max.  Limited only by RAM for code  Data areas and their retentivity	without battery	Yes
for word operations, typ.  for floating point arithmetic, typ.  CPU-blocks  Number of blocks (total)  Number, max.  Number, max.  Limited only by RAM for code  Data areas and their retentivity	CPU processing times	
for floating point arithmetic, typ.  CPU-blocks  Number of blocks (total)  OB  Number, max.  Limited only by RAM for code  Data areas and their retentivity	for bit operations, typ.	0.08 μs; / instruction
CPU-blocks  Number of blocks (total)  OB  Number, max.  Limited only by RAM for code  Data areas and their retentivity	for word operations, typ.	1.7 µs; / instruction
Number of blocks (total)  OB  Number, max.  Limited only by RAM for code  Data areas and their retentivity	for floating point arithmetic, typ.	2.3 µs; / Operation
OB  • Number, max.  Limited only by RAM for code  Data areas and their retentivity	CPU-blocks	
Number, max.  Limited only by RAM for code  Data areas and their retentivity	Number of blocks (total)	1 024; OBs, FBs, FCs, DBs
Data areas and their retentivity	ОВ	
	Number, max.	Limited only by RAM for code
Retentive data area (incl. timers, counters, flags), max. 10 kbyte	Data areas and their retentivity	
	Retentive data area (incl. timers, counters, flags), max.	10 kbyte

Address area	
I/O address area	
• Inputs	1 024 byte
Outputs	1 024 byte
Process image	1 024 byte
Inputs, adjustable	1 024 byte
Outputs, adjustable	1 024 byte
Hardware configuration	
Number of modules per system, max.	8; 3 comm. modules, 1 signal board, 8 signal modules
Time of day	
Clock	
<ul> <li>Hardware clock (real-time)</li> </ul>	Yes
Backup time	480 h; typical; 12 days min. at 40 °C
Deviation per day, max.	±60 s per month
Digital inputs	
Number of digital inputs	14
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.	14; 14 inputs at 55 °C horizontal or 45 °C vertical
Input voltage	
Rated value (DC)	24 V; DC at 4 mA nominal
• for signal "0"	5 V DC at 1 mA
• for signal "1"	15 V DC at 2.5 mA
Input current	
• for signal "1", typ.	4 mA; nominal
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	0.1 / 0.2 / 0.4 / 0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 µs; 0.05 / 0.1 / 0.2 / 0.4 /
— parameterizable	0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 ms
— at "0" to "1", min.	0.1 µs
— at "0" to "1", max.	20 ms
for interrupt inputs	
— parameterizable	Yes
for technological functions	
— parameterizable	Yes; Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @
paramotonzablo	30 kHz
Cable length	
• shielded, max.	500 m; 50 m for technological functions
• unshielded, max.	150 m; for technological functions: No
Digital outputs	
Number of digital outputs	10
of which high-speed outputs	4; 100 kHz Pulse Train Output
Short-circuit protection	No; to be provided externally
Switching capacity of the outputs	, 10 00 provided outsidely
with resistive load, max.	0.5 A
on lamp load, max.	5 W
Output voltage	0.17
· ·	0.1 V: with 10 kOhm load
• for signal "0", max.	0.1 V; with 10 kOhm load
• for signal "1", min.	20 V
Output current	0.5 A
• for signal "1" rated value	0.5 A
for signal "0" residual current, max.	0.1 mA
Output delay with resistive load	
• "0" to "1", max.	1 μs
• "1" to "0", max.	3 µs
Switching frequency	
of the pulse outputs, with resistive load, max.	100 kHz
Relay outputs	
<ul> <li>Number of relay outputs</li> </ul>	0



Cable length	
• shielded, max.	500 m
• unshielded, max.	150 m
Analog inputs	
Number of analog inputs	2
Input ranges	
Voltage	Yes; 0 to 10V
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	≥100k ohms
Cable length	100 m; shielded twisted pair
shielded, max.  Analog outputs	100 m; shielded, twisted pair
	0
Number of analog outputs  Cable length	
shielded, max.	100 m; shielded, twisted pair
Analog value generation for the inputs	100 III, dillolded, twisted pair
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	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
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
PROFINET IO Controller	
Services	
Number of IO devices with prioritized startup, max.	16
Protocols  Supports protocol for PROFINITIO	Vec
Supports protocol for PROFINET IO  PROFIsafe	Yes No
PROFIBUS	Yes; CM 1243-5 required
AS-Interface	Yes Yes
Protocols (Ethernet)	
• TCP/IP	Yes
Open IE communication	
• TCP/IP	Yes
• ISO-on-TCP (RFC1006)	Yes
• UDP	Yes
Web server	
• supported	Yes
User-defined websites	Yes
Further protocols	
• MODBUS	Yes
communication functions / header	
S7 communication	
• supported	Yes
• as server	Yes
as client  Test commissioning functions	Yes



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; Up to 512 KB of data per trace are possible
Integrated Functions	
Frequency measurement	Yes
controlled positioning	Yes
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	Functional isolation (Optocoupler)
Permissible potential difference	
between different circuits	500 V DC between 24 V DC and 5 V DC
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
<ul> <li>Test voltage at air discharge</li> </ul>	8 kV
Test voltage at contact discharge	6 kV
Interference immunity to cable-borne interference	
<ul> <li>Interference immunity on supply lines acc. to IEC 61000- 4-4</li> </ul>	Yes
<ul> <li>Interference immunity on signal cables acc. to IEC 61000- 4-4</li> </ul>	Yes
Interference immunity against voltage surge	
<ul> <li>Interference immunity on supply lines acc. to IEC 61000- 4-5</li> </ul>	Yes
Interference immunity against conducted variable disturbance indu	ced 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	
Marine approval	Yes
Highest safety class achievable in safety mode	
Performance level according to ISO 13849-1	PLe
• SIL acc. to IEC 61508	SIL 3
Ambient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	55 °C; = Tmax
• horizontal installation, min.	-25 °C
• horizontal installation, max.	55 °C
• vertical installation, min.	-25 °C
vertical installation, max.	45 °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
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	2 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
Relative humidity	
<ul> <li>With condensation, tested in accordance with IEC 60068- 2-38, max.</li> </ul>	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Vibrations	Conditions)
Vibration resistance during operation acc. to IEC 60068-	2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
2-6	2 g (m/s ) wan mounting, 1 g (m/s ) bire rain
<ul> <li>Operation, tested according to IEC 60068-2-6</li> </ul>	Yes
Shock testing	
<ul> <li>tested according to IEC 60068-2-27</li> </ul>	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value),
Desigtance	duration 11 ms
Resistance	
Coolants and lubricants	Von
<ul> <li>Resistant to commercially available coolants and lubricants</li> </ul>	Yes
Use in stationary industrial systems	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
<ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
<ul> <li>to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
<ul> <li>Against chemically active substances acc. to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
Coatings for printed circuit board assemblies acc. to EN	Yes; Class 2 for high reliability
61086	
<ul> <li>Protection against fouling acc. to EN 60664-3</li> </ul>	Yes; Type 1 protection
<ul> <li>Military testing according to MIL-I-46058C, Amendment 7</li> </ul>	Yes; Discoloration of coating possible during service life
<ul> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A</li> </ul>	Yes; Conformal coating, Class A
configuration / header	
configuration / programming / header	
Programming language	
— LAD	Yes; incl. failsafe
— FBD	Yes; incl. failsafe
— SCL	Yes
programming / cycle time monitoring / header	
adjustable	Yes
Dimensions	
Width	110 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	415 g



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