Data sheet 6AG1214-1AG40-2XB0

Siemens EcoTech



SIPLUS S7-1200 CPU 1214C DC/DC/DC based on 6ES7214-1AG40-0XB0 with conformal coating, -40...+70 °C, start up -25 °C, signal board: 0, 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 100 KB



Figure similar

General information	
Product type designation	CPU 1214C DC/DC/DC
based on	6ES7214-1AG40-0XB0
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	see entry ID: 109746275
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Load voltage L+	
<ul> <li>Rated value (DC)</li> </ul>	24 V
<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V
<ul> <li>permissible range, upper limit (DC)</li> </ul>	28.8 V
Input current	
Current consumption (rated value)	500 mA; CPU only
Current consumption, max.	1 500 mA; CPU with all expansion modules
Inrush current, max.	12 A; at 28.8 V DC
l²t	0.5 A <sup>2</sup> ·s
Output current	
for backplane bus (5 V DC), max.	1 600 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	100 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	100
for bit operations, typ.	0.085 µs; / instruction
for word operations, typ.	1.7 μs; / instruction
for floating point arithmetic, typ.	2.3 μs; / instruction
CPU-blocks	2.0 μο, η που ασυστ
Number of blocks (total)	DBs, FCs, FBs, counters and timers. The maximum number of addressable blocks ranges from 1 to 65535. There is no restriction, the entire working memory can be used
OB	
Number, max.	Limited only by RAM for code
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	10 kbyte
Flag	
• Size, max.	8 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	
<ul> <li>Inputs, adjustable</li> </ul>	1 kbyte
Outputs, adjustable	1 kbyte
Hardware configuration	
Number of modules per system, max.	3 communication modules, no signal board can be used, 8 signal modules
Time of day	
Clock	
<ul> <li>Hardware clock (real-time)</li> </ul>	Yes
Backup time	480 h; Typical
<ul> <li>Deviation per day, max.</li> </ul>	60 s/month at 25 °C
Digital inputs	
Number of digital inputs	14; 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.	14
Input voltage	
<ul> <li>Rated value (DC)</li> </ul>	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	V
— parameterizable	Yes
for technological functions	Single phase: 2 @ 400 kHz 9 2 @ 20 kHz differential 0 @ 20 kHz 9 2 @ 20
— 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
of which high-speed outputs	4; 100 kHz Pulse Train Output
Limitation of inductive shutdown voltage to	L+ (-48 V)
Switching capacity of the outputs	
with resistive load, max.	0.5 A
• on lamp load, max.	5 W
Output voltage	

● for signal "0", max.	0.1 V; with 10 kOhm load
● for signal "1", min.	20 V
Output current	
• for signal "1" rated value	0.5 A
• for signal "0" residual current, max.	0.1 mA
Output delay with resistive load	V. 1 111/1
	4
• "0" to "1", max.	1 μs
• "1" to "0", max.	5 μs
Switching frequency	
<ul> <li>of the pulse outputs, with resistive load, max.</li> </ul>	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	100 111
	0
Number of analog inputs	2
Input ranges	
Voltage	Yes
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
<ul><li>— Input resistance (0 to 10 V)</li></ul>	≥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
<ul> <li>Conversion time (per channel)</li> </ul>	625 µs
Encoder	
Connectable encoders	Yes
Connectable encoders  • 2-wire sensor	Yes
Connectable encoders  • 2-wire sensor  1. Interface	
Connectable encoders  • 2-wire sensor  1. Interface Interface type	PROFINET
Connectable encoders  • 2-wire sensor  1. Interface	
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Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated	PROFINET Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate	PROFINET Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation	PROFINET Yes Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types	PROFINET Yes Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet)	PROFINET Yes Yes Yes Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports	PROFINET Yes Yes Yes Yes Yes 1
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch	PROFINET Yes Yes Yes Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols	PROFINET Yes Yes Yes Yes Yes 1 No
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller	PROFINET Yes Yes Yes Yes Yes 1 No
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device	PROFINET Yes Yes Yes Yes Yes 1 No Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller	PROFINET Yes Yes Yes Yes Yes 1 No
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device	PROFINET Yes Yes Yes Yes Yes 1 No Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet)  • Number of ports  • integrated switch  Protocols  • PROFINET IO Controller  • PROFINET IO Device  • SIMATIC communication	PROFINET Yes Yes Yes Yes Yes Yes  Yes  Yes 1 No  Yes Yes Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication	PROFINET  Yes  Yes  Yes  Yes  Yes  Yes  Yes  1  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy	PROFINET  Yes  Yes  Yes  Yes  Yes  Yes  1  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy  PROFINET IO Controller	PROFINET  Yes  Yes  Yes  Yes  Yes  Yes  Yes  1  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Your Additionally also encrypted  Yes  No
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet)  • Number of ports  • integrated switch  Protocols  • PROFINET IO Controller  • PROFINET IO Device  • SIMATIC communication  • Open IE communication  • Web server  • Media redundancy  PROFINET IO Controller  • Transmission rate, max.	PROFINET  Yes  Yes  Yes  Yes  Yes  Yes  1  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy  PROFINET IO Controller • Transmission rate, max. Services	PROFINET Yes Yes Yes Yes Yes  Yes  Yes 1 No  Yes Yes Yes Yes Yes Yes Yes No  100 Mbit/s
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy  PROFINET IO Controller • Transmission rate, max.  Services  — PG/OP communication	PROFINET Yes Yes Yes Yes Yes Yes  Yes  Yes  1 No  Yes Yes Yes Yes Yes Yes Yes Yes Your control of the control o
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy  PROFINET IO Controller • Transmission rate, max. Services	PROFINET Yes Yes Yes Yes Yes  Yes  Yes 1 No  Yes Yes Yes Yes Yes Yes Yes No  100 Mbit/s
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy  PROFINET IO Controller • Transmission rate, max.  Services  — PG/OP communication	PROFINET Yes Yes Yes Yes Yes Yes  Yes  Yes  1 No  Yes Yes Yes Yes Yes Yos; Optionally also encrypted Yes No  100 Mbit/s  Yes
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy  PROFINET IO Controller • Transmission rate, max.  Services  — PG/OP communication — Isochronous mode	PROFINET Yes Yes Yes Yes Yes Yes  Yes  1 No  Yes Yes Yes Yes Yes Yes Yes Yes Yos; Optionally also encrypted Yes No  100 Mbit/s  Yes No
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy  PROFINET IO Controller  • Transmission rate, max.  Services  — PG/OP communication — Isochronous mode — IRT	PROFINET Yes Yes Yes Yes Yes  Yes 1 No  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Connectable encoders  • 2-wire sensor  1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types  • RJ 45 (Ethernet)  • Number of ports  • integrated switch  Protocols  • PROFINET IO Controller  • PROFINET IO Device  • SIMATIC communication  • Open IE communication  • Web server  • Media redundancy  PROFINET IO Controller  • Transmission rate, max.  Services  — PG/OP communication  — Isochronous mode  — IRT  — PROFIenergy	PROFINET Yes Yes Yes Yes Yes  Yes 1 No  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

<ul> <li>Number of connectable IO Devices, max.</li> </ul>	16
<ul> <li>Number of connectable IO Devices for RT, max.</li> </ul>	16
— of which in line, max.	16
<ul> <li>Activation/deactivation of IO Devices</li> </ul>	Yes
<ul> <li>Number of IO Devices that can be simultaneously activated/deactivated, max.</li> </ul>	8
— Updating time	The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data.
PROFINET IO Device	or configured door data.
Services	
— PG/OP communication	Yes
— Isochronous mode	No
— IRT	No
— PROFlenergy	Yes
— Shared device	Yes
Number of IO Controllers with shared device, max.	2
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS PROFIBUS	
	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required
AS-Interface	Yes; CM 1243-2 required
Protocols (Ethernet)	V
• TCP/IP	Yes
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Redundancy mode	
Media redundancy	
— MRP	No
— MRPD	No
SIMATIC communication	
S7 routing	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
OPC UA	
Runtime license required	Yes; "Basic" license required
OPC UA Server	Yes; Data access (read, write, subscribe), runtime license required
<ul> <li>Application authentication</li> </ul>	Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256
<ul> <li>User authentication</li> </ul>	"anonymous" or by user name & password
<ul><li>Number of sessions, max.</li></ul>	5
<ul> <li>Number of accessible variables, max.</li> </ul>	1 000
<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 monitored items, recommended max.</li> </ul>	500
— Number of server interfaces, max.	2
<ul> <li>Number of nodes for user-defined server interfaces, max.</li> </ul>	1 000
Further protocols	
• MODBUS	Yes
communication functions / header	

C7 communication	
S7 communication	Voc
• 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	8 connections for open user communication (active or passive): TSEND_C, TRCV_C, TCON, TDISCON, TSEND and TRCV, 8 CPU/CPU connections (Client or Server) for GET/PUT data, 6 connections for dynamic assignment to GET/PUT or open user communication
Test commissioning functions	
Status/control	
<ul> <li>Status/control variable</li> </ul>	Yes
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Forcing	
Forcing	Yes
Diagnostic buffer	
• present	Yes
Traces	
<ul> <li>Number of configurable Traces</li> </ul>	2
<ul> <li>Memory size per trace, max.</li> </ul>	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
Integrated Functions	
Counter	
Number of counters	6
<ul> <li>Counting frequency, max.</li> </ul>	100 kHz
Frequency measurement	Yes
controlled positioning	Yes
Number of position-controlled positioning axes, max.	8
Number of positioning axes via pulse-direction interface	4; With integrated outputs
PID controller	Yes
Number of alarm inputs	4
Number of pulse outputs	4
Limit frequency (pulse)	100 kHz
Potential separation	
Potential separation digital inputs	
Potential separation digital inputs	No
between the channels, in groups of	1
Potential separation digital outputs	
Potential separation digital outputs	Yes
between the channels	No
between the channels, in groups of	1
EMC	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static	Yes
electricity acc. to IEC 61000-4-2	
<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
• Interference immunity on signal cables acc. to IEC 61000-4-4	Yes
Interference immunity against voltage surge	
• Interference immunity on supply lines acc. to IEC 61000-4-5	Yes
Interference immunity against conducted variable disturbance indu	
<ul> <li>Interference immunity against high-frequency radiation acc. to IEC 61000-4-6</li> </ul>	Yes

Emission of radio interference and to ENLES 044	
Emission of radio interference acc. to EN 55 011	Voc. Crown 4
Limit class A, for use in industrial areas     Limit class B, for use in residential areas	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	ID00
IP degree of protection	IP20
standards, approvals, certificates	
Ecological footprint	Yes
Global warming potential	165
— global warming potential, (total) [CO2 eq]	111 kg
— global warming potential, (during production) [CO2	20.1 kg
eq] — global warming potential, (during operation) [CO2	91.5 kg
eq] — global warming potential, (after end of life cycle)	-0.896 kg
[CO2 eq]	
mbient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	40 °C: = Train (incl. condenses for first the day of condenses for first the Condenses for the condens
• min.         • max.	-40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; Tmax > +55 °C number of simultaneously switched-on digital inputs 7, digital outputs 5, analog inputs 2 (no adjacent points) with horizontal mounting position; Tmax > +60 °C number of simultaneously switched-on digital inputs 7, digital outputs 5, analog inputs 1 (no adjacent points) with horizontal mounting position
At cold restart, min.  Auchine the properties of the properties.	-25 °C
Ambient temperature during storage/transportation	-40 °C
• min.	70 °C
max.  Altitude during operation relating to sea level	70 C
Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Vibrations	
<ul> <li>Vibration resistance during operation acc. to IEC 60068- 2-6</li> </ul>	2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
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
Resistance	
Coolants and lubricants	V 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air
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); *
— to mechanically active substances according to EN 60721-3-3	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
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
0012100	
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
— to mechanically active substances according to EN	Yes; Class 6S3 incl. sand, dust; *

<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	
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	Yes; Class 2 for high reliability
<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
— FBD	Yes
— SCL	Yes
Know-how protection	
<ul> <li>User program protection/password protection</li> </ul>	Yes
Copy protection	Yes
Block protection	Yes
Access protection	
<ul> <li>Protection level: Write protection</li> </ul>	Yes
<ul> <li>Protection level: Read/write protection</li> </ul>	Yes
<ul> <li>Protection level: Complete protection</li> </ul>	Yes
programming / cycle time monitoring / header	
adjustable	Yes
Dimensions	
Width	110 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	415 g

last modified: 10/9/2024 🖸