SIEMENS

Data sheet

6AG1214-1BG31-2XB0



spare part SIPLUS S7-1200 CPU 1214C AC/DC/relay based on 6ES7214-1BG31-0XB0 with conformal coating, -40...+70 °C, start up -25 °C, signal board: 0, compact CPU, AC/DC/relay, onboard I/O: 14 DI 24 V DC; 10 DQ relay 2 A; 2 AI 0-10 V DC, power supply: AC 85-264 V AC @ 47-63 Hz, program/data memory 75 KB

Figure similar

General information	
Product type designation	CPU 1214C AC/DC/relay
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	see entry ID: 109746275
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)	100 mA at 120 V AC; 50 mA at 240 V AC
Inrush current, max.	20 A; at 264 V
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	Permissible range: 20.4V to 28.8V
Power loss	
Power loss, typ.	14 W
Memory	
Work memory	
integrated	75 kbyte
expandable	No
Load memory	
integrated	4 Mbyte
Backup	
• present	Yes; maintenance-free
without battery	Yes
CPU processing times	
for bit operations, typ.	0.085 μs; / instruction
for word operations, typ.	1.7 µs; / instruction
for floating point arithmetic, typ.	2.5 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
OB	entire working memory can be used
Number, max.	Limited only by RAM for code
Data areas and their retentivity	Ellinica only by 14 th for oods
	40 librate
Retentive data area (incl. timers, counters, flags), max.	10 kbyte
Flag ● Size, max.	8 kbyte; Size of bit memory address area
Address area	o kbyte, Size of bit memory address area
I/O address area	4.004 h. t-
• Inputs	1 024 byte
Outputs	1 024 byte
Process image • Inputs, adjustable	1 kbyte
Outputs, adjustable Outputs, adjustable	1 kbyte
	i 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	
 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
 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	
 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 current	
● for signal "1", typ.	1 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
24 11011 42 11411 main	in groups of four
— at "0" to "1", min. — at "0" to "1", max.	0.2 ms 12.8 ms
— at "0" to "1", max. for interrupt inputs	12.0 1115
— parameterizable	Yes
for technological functions	100
— parameterizable	Yes; Single phase : 3 at 100 kHz & 3 at 30 kHz, differential: 3 at 80 kHz
parameterizable	& 3 at 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
Short-circuit protection	No; to be provided externally
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.
Switching frequency	
 of the pulse outputs, with resistive load, max. 	1 Hz
Relay outputs	
Number of relay outputs	10

Number of energting evalue, may	maghanically 10 million at rated load voltage 100 000
Number of operating cycles, max. Cable length	mechanically 10 million, at rated load voltage 100 000
Cable length	500 m
shielded, max.	500 m 150 m
• unshielded, max.	150 III
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	
·	10 hit
Resolution with overrange (bit including sign), max.	10 bit
Integration time, parameterizable Conversion time (per shappe)	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	1.00
PROFINET IO Controller	Yes
	1.00
Protocols	V
Supports protocol for PROFINET IO	Yes
PROFISATE	No
PROFIBUS	Yes
AS-Interface	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 server as client	Yes
	100
Test commissioning functions	
Status/control	
 Status/control variable 	Yes
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Forcing	
Forcing	Yes
Diagnostic buffer	
• present	Yes

Integrated Functions	
Frequency measurement	Yes
controlled positioning	Yes
PID controller	Yes
Number of alarm inputs	4
Potential separation	
Potential separation digital inputs	
Potential separation digital inputs	500V AC for 1 minute
 between the channels, in groups of 	1
Potential separation digital outputs	
Potential separation digital outputs	Relays
between the channels	No
between the channels, in groups of	2
	2
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	
 Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 	Yes
Test voltage at air discharge	8 kV
Test voltage at contact discharge	6 kV
Interference immunity to cable-borne interference	
Interference immunity on supply lines acc. to IEC	Yes
61000-4-4 ● Interference immunity on signal cables acc. to IEC	Yes
61000-4-4	
Interference immunity against voltage surge	
 Interference immunity on supply lines acc. to IEC 61000-4-5 	Yes
Interference immunity against conducted variable disturbanc	e induced by high-frequency fields
 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 	Yes
Emission of radio interference acc. to EN 55 011	
 Limit class A, for use in industrial areas 	Yes: Group 1
Limit class A, for use in industrial areasLimit 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
Limit class B, for use in residential areas	Yes; When appropriate measures are used to ensure compliance with
Limit class B, for use in residential areas Degree and class of protection	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011
Limit class B, for use in residential areas Degree and class of protection IP degree of protection	Yes; When appropriate measures are used to ensure compliance with
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmax
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. vertical installation, max. At cold restart, min.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. vertical installation, max. At cold restart, min. Ambient temperature during storage/transportation	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmax -25 °C
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. vertical installation, max. At cold restart, min. Ambient temperature during storage/transportation min.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmax -25 °C
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. vertical installation, max. At cold restart, min. Ambient temperature during storage/transportation min. max.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmax -25 °C
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. vertical installation, max. At cold restart, min. Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmax -25 °C -40 °C 70 °C
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. vertical installation, max. At cold restart, min. Ambient temperature during storage/transportation min. max.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmax -25 °C
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. vertical installation, max. At cold restart, min. Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmax -25 °C -40 °C 70 °C 2 000 m 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); above
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. vertical installation, max. At cold restart, min. Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Relative humidity With condensation, tested in accordance with IEC	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmax -25 °C -40 °C 70 °C 2 000 m 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); above 2 000 m max. 132 V AC
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. At cold restart, min. Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max.	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmax -25 °C -40 °C 70 °C 2 000 m 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); above 2 000 m max. 132 V AC
Limit class B, for use in residential areas Degree and class of protection IP degree of protection Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. vertical installation, max. At cold restart, min. Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Relative humidity With condensation, tested in accordance with IEC	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 IP20 0.3 m; five times, in product package -40 °C; = Tmin; Startup @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C Number of simultaneously controllable inputs and outputs max. 50 %; no signal board can be used -40 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmin; Startup @ -25 °C 50 °C; = Tmax -25 °C -40 °C 70 °C 2 000 m 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); above 2 000 m max. 132 V AC

60068-2-6	
	Yes
Operation, tested according to IEC 60068-2-6 Shock testing	Tes
• 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	
 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
 to chemically active substances according to EN 60721-3-3 	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	
 to biologically active substances according to EN 60721-3-6 	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); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* 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 61086 	Yes; Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A
configuration / header	
configuration / programming / header	
Programming language	
— LAD	Yes
— FBD	Yes
— SCL	Yes
programming / cycle time monitoring / header	
adjustable	Yes
Dimensions	
Width	110 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	455 g
- O - 9 PEP:	

last modified:

10/12/2022 🖸