## SIEMENS

## Data sheet

## 6AG1215-1HG40-4XB0



SIPLUS S7-1200 CPU 1215C DC/DC/relay based on 6ES7215-1HG40-0XB0 with conformal coating, -20...+60 °C, compact CPU, DC/DC/relay, 2 PROFINET ports, onboard I/O: 14 DI 24 V DC 10 DQ relay 2 A, 2 AI 0-10 V DC 2 AQ 0-20 mA DC, power supply: DC 20.4-28.8 V DC, program/data memory 125 KB

Figure similar

General information			
Product type designation	CPU 1215C DC/DC/relay		
Firmware version	V4.1		
based on	6ES7215-1HG40-0XB0		
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		
Load voltage L+			
Rated value (DC)	24 V		
<ul> <li>permissible range, lower limit (DC)</li> </ul>	5 V		
<ul> <li>permissible range, upper limit (DC)</li> </ul>	250 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		
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		
<ul> <li>Plug-in (SIMATIC Memory Card), max.</li> </ul>	with SIMATIC memory card		
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 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		
Address area			
Process image			
Inputs, adjustable	1 kbyte		
Outputs, adjustable	1 kbyte		
Hardware configuration			
Number of modules per system, max.	3 comm. modules, 1 signal board, 8 signal modules		
Time of day			
Clock			
Hardware clock (real-time)	Yes		
Backup time	480 h; Typical		
Deviation per day, max.	$\pm 60$ 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	14		
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	13 V DO dt 2.5 mA		
• 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 in		
parameterizable	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	Yes; Single phase : 3 at 100 kHz & 3 at 30 kHz, differential: 3 at 80 kHz & 3 at		
	30 kHz		
Cable length			
<ul> <li>shielded, max.</li> </ul>	500 m; 50 m for technological functions		
unshielded, max.	300 m; for technological functions: No		
Digital outputs			
Number of digital outputs			
Switching capacity of the outputs	10; Relays		
with resistive load, max.	2 A		
• on lamp load, max.			
• on lamp load, max. Output delay with resistive load	2 A 30 W with DC, 200 W with AC		
<ul> <li>on lamp load, max.</li> <li>Output delay with resistive load</li> <li>"0" to "1", max.</li> </ul>	2 A 30 W with DC, 200 W with AC 10 ms; max.		
<ul> <li>on lamp load, max.</li> <li>Output delay with resistive load</li> <li>"0" to "1", max.</li> <li>"1" to "0", max.</li> </ul>	2 A 30 W with DC, 200 W with AC		
<ul> <li>on lamp load, max.</li> <li>Output delay with resistive load</li> <li>"0" to "1", max.</li> </ul>	2 A 30 W with DC, 200 W with AC 10 ms; max.		
<ul> <li>on lamp load, max.</li> <li>Output delay with resistive load</li> <li>"0" to "1", max.</li> <li>"1" to "0", max.</li> </ul>	2 A 30 W with DC, 200 W with AC 10 ms; max.		
<ul> <li>on lamp load, max.</li> <li>Output delay with resistive load</li> <li>"0" to "1", max.</li> <li>"1" to "0", max.</li> <li>Switching frequency</li> </ul>	2 A 30 W with DC, 200 W with AC 10 ms; max. 10 ms; max.		

Number of operating evolve, max	machanically 10 million at rated load voltage 100 000		
Number of operating cycles, max. Cable length	mechanically 10 million, at rated load voltage 100 000		
shielded, max.	500 m		
• unshielded, max.	500 m 150 m		
Analog inputs	150 11		
	2		
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	Too m, twisted and shielded		
	2		
Number of analog outputs	2		
Output ranges, current	Nee.		
• 0 to 20 mA	Yes		
Analog value generation for the inputs			
Integration and conversion time/resolution per channel			
• Resolution with overrange (bit including sign), max.	10 bit		
Integration time, parameterizable	Yes		
Conversion time (per channel)	625 µs		
Analog value generation for the outputs			
Integration and conversion time/resolution per channel			
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	10 bit		
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; Also simultaneously with IO-Device functionality		
PROFINET IO Controller			
Transmission rate, max.	100 Mbit/s		
Services			
<ul> <li>Number of connectable IO Devices, max.</li> </ul>	16		
PROFINET IO Device			
Services			
— Shared device	Yes		
- Number of IO Controllers with shared device, max.	2		
Protocols			
Supports protocol for PROFINET IO	Yes		
PROFIsafe	No		
PROFIBUS	Yes; CM 1243-5 required		
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		

Fundamental partnerses              Prescription of a partnerse set	User-defined websites	Yes
• ACODEUS         Yes           communication (minicipity / header)         F           • Acode (minicipity / header)         Yes           • Same of the instance of the inst		
S7 communication     Yes       • signated     Yes       • as server     Yes       • as server     Yes       • as server     Yes       • Number of connections     16, dynamically       • Controls for functions     Statuscontrol       • Statuscontrol     Yes       • Present     Yes       • Resent     Yes       • Number of counters     0       • Outrieg frequency, max.     100 MHz       • Present     Yes       Number of positioning axes, max.     8       Number of positioning axes, max.     8       Number of positioning axes, max.     9       • Potential separation digital inputs     500 V AC for 1 minute       • Potential separation digital inputs     500 V AC for 1 minute       • Potential separation digital inputs     500 V AC for 1 minute       • Potential separation digital inputs     500 V AC for 1 minute       • Potential separation digital inp	· · · · · · · · · · · · · · · · · · ·	Yes
• supported     Yes       • sa server     Yes       • as client     Yes       • coval     0. dynamically       Test commissioning functions     Statustocontrol variable     Yes       • Variables     Inpubliculuots, memory bils, DBs, distributed I/Os, timers, counters       • Stratase     Inpubliculuots, memory bils, DBs, distributed I/Os, timers, counters       • Forcing     Yes       • Number of configurable Traces     2. Up to 512 KB of data per trace are possible       History, max     100 kHz       • Counting frequency, max.     100 kHz       • Forcing     Yes       • Number of positioning axes vap abcd-direction interface     Up to 4 with SB 1222       • Posterint apprato     Yes       • Number of positioning axes vap abcd-direction interface     Up to 4 with SB 1222       • Poterintial separation diptial inputs     500 V AC for 1 minute       • Poterintial separation diptial inputs     500 V AC for 1 minute       • Poterintial separation diptial inputs     500 V AC for 1 minute       • Poterintial separation diptial inputs     500 V AC for 1 minute       • Poterintial separation diptial inputs     500 V AC for 1 minute	communication functions / header	
• as server         Yes           • overall         16. dynamically           • overall         16. dynamically           • Stratis control variable         Yes           • Dagnostic buffer         •           • Precent         Yes           • Number of configurable Traces         2. Up to 512 KB of data per trace are possible           Integer         •           • Number of configurable Traces         8           • Countrol Registers/, max.         100 MHz           • Frequency measurement.         Yes           • Countrol Registers/, max.         100 MHz           • Preduction control de positioning axes, max.         8           • Number of positioning axes, max.         8           • Preductial separation digital inputs         500 VA C for 1 minute           • Evential separation digital outputs	S7 communication	
• size client         Yes           Number of connectors         10: dynamically           Test connectors         10: dynamically           Test connectors         10: dynamically           Situats control virable         Yes           Number of configurable Traces         2. Up to 512 KB of data per trace are possible           Integrated Functions         5           Countrol         S           Situats controls         S           Situats controls         S           Situats controls         S           Situats controls         Yes           Number of possition controls of posticoling axes in a public-direction interface         Up to 4 will SB 1222           Picontrols of aim inputs         S00 V AC for 1 minute           Solventh tic channels         No           Solvetrates inmunuty against discharge of statati celectricity	supported	Yes
Number of connections           restarcontrol solution functions           Tests:::::::::::::::::::::::::::::::::::	• as server	Yes
everall         16; dynamically           Test commissioning functions         Imposed on the second of	• as client	Yes
Test commissioning functions         Decomposition           Statiscontrol         Statiscontrol variable         Yes           Variables         Inputsioutputs, memory bits, DBs, distributed VOs, timers, counters           Promo         *           • present         Yes           • number of configurable Traces         2. Up to 512 KB of data per trace are possible           Integrated Functions         8           Counter         8           • Number of configurable Traces         100 H12           • Prequency measurement         Yes           • Number of postioning axes, max.         8           • Number of postioning axes, max.         8           Number of postioning axes via putse-direction interface         Ves           PID controller         Yes           Number of postioning axes via putse-direction interface         Ves to 4 with SB 1222           PID controller         Yes           • Number of postioning axes in groups of         1           • Potential separation         500 V AC for 1 minute           • Eavername         Status apparation digital inputs           • Detential separation digital inputs         500 V AC for 1 minute           • Eavername         • Forenal separation digital inputs           • Eavername         Status appa	Number of connections	
Statuscontrol     Yes       • Subuscontrol variable     Inputs/outputs, memory bits, DBs, distributed VDs, timers, counters       Forcing     Yes       Diagnosts buffer     Yes       • Procing     Yes       Imagender Functions     2, Up to 512 KB of data per trace are possible <i>Counter</i> 8       • Counting frequency, max.     100 MHz       Frequency measurement     Yes       Number of postioning axes, via value-direction interface     Up to 412 KB of data per trace are possible       Number of postion-controlled postioning axes, max.     8       Number of postioning axes via pulse-direction interface     Up to 4 with SB 1222       PDic controler     Yes       Number of adminipuds     4       Potential separation digital inpuds     500 VAC for 1 minute       • Detential separation digital inpuds     500 VAC for 1 minute       • Detential separation digital inpuds     500 VAC for 1 minute       • Detential separation digital inpuds     500 VAC for 1 minute       • Detential separation digital inpuds     500 VAC for 1 minute       • Detential separation digital inpuds     500 VAC for 1 minute       • Detential separation digital inpuds     500 VAC for 1 minute       • Detential separation digital inpuds     1       • Detential separation digital inpuds     1       • Detential separation di	• overall	16; dynamically
• Status/control variable         Yes           • Forcing         Ves           • Forcing         Yes           • Forcing         Yes           • Diagnosate buffer         ************************************	Test commissioning functions	
e. Porcing         Yes           Diagnosts buffer         Yes           opresents         Yes           Traces         2: Up to 512 KB of data per trace are possible           Integrated Functions         6           Counter         6           Number of counters         6           Counter         9           Number of counters         6           Counter         9           Number of positioning ares, max.         8           Potential separation digital inputs         500 VAC for 1 minute           Potential separation digital inputs         500 VAC for 1 minute           Potential separation digital outputs         700 settice           Potential separation digital outputs         500 VAC for 1 minute           Potential separation digital outputs         700 settice           Potential separation digital outputs         800 VAC for 1 minute	Status/control	
Forcing     Yes       • Forcing     Yes       Diagnostic further     •       • Number of configurable Traces     2: Up to 512 KB of data per trace are possible       Integrade Functions     6       • Counting     6       • Number of configurable Traces     6       • Counting frequency max.     100 kHz       Frequency measurement     Yes       • Number of positioning axes, max.     8       Potential separation digital inputs     4       Potential separation digital inputs     500 V AC for 1 minute       • Detwent the channels. In groups of     1       • Detwent the channels. In groups of     1       • Detwent the channels. In groups of     2       Etwo     1       Interference Immunity against discharge of static electricity     4       Interference Immunity against discharge of static electricity     4       Interference Immunity against discharge of static electricity     1       Interference Immunity against discharge of static electricity     1       Interference Immunity against discharge of static electricity     4       Interference Immunity against discharge of static electricity     4       Int	Status/control variable	Yes
• Forcing         Yes           Diagnostic buildr         • present         Yes           Traces         -         -           • Number of configurable Traces         2: Up to 512 KB of data per trace are possible           Integrated Functions         6           Counter         6           • Number of counters         6           • Counting frequency, max         100 kHz           Prequency measurement         Yes           controlled positioning axes, max         8           Number of costion-controlled positioning axes, max         8           Number of aniton-controlled positioning axes, max         8           Number of aniton-controlled positioning axes, max         8           Potential separation digital inputs         500 V AC for 1 minute           • Potential separation digital inputs         500 V AC for 1 minute           • Potential separation digital outputs         Relays           • Potential separation digital outputs         Relays           • Evitatial separation digital outputs         Yes           • Potential separation digital outputs         Yes           • Evitatial separation digital outputs         Relays           • Evitatial separation digital outputs         Relays           • Evitatial separation digital outputs	Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Diagnostic buffer         Yes           • present         Yes           Traces         2: Up to 512 KB of data per trace are possible           Interpreted Functions         00 kHz           Countier         6           • Counting frequency, max.         100 kHz           Frequency measurement         Yes           Number of positioning axes, via.         8           Number of positioning axes via pulse-direction interface         Up to 4 with SB 1222           PID controller         Yes           Number of positioning axes via pulse-direction interface         Up to 4 with SB 1222           PID controller         Yes           Number of positioning axes via pulse-direction interface         Up to 4 with SB 1222           PID controller         Yes           Number of positioning axes via pulse-direction interface         Up to 4 with SB 1222           Plotential separation digital inputs         500 V AC for 1 minute           • Determent is separation digital inputs         500 V AC for 1 minute           • Determent is separation digital outputs         Relays           • between the channels, in groups of         2           EME         Interference immunity against discharge of static electricity           • Interference immunity against discharge of static electricity         Interferenc	Forcing	
• present         Yes           • Number of configurable Traces         2: Up to 512 KB of data per trace are possible           Integrated Functions         -           Counter         6           • Number of counters         6           • Counting frequency, max.         100 kHz           Frequency measurement         Yes           controlled positioning axes, max.         8           Number of positioning axes, max.         8           Number of positioning axes via pulse-direction interface         Up to 4 with SB 1222           PID controller         Yes           Number of pastion-controlled positioning axes, max.         8           Number of pastion-controlled positioning axes, max.         8           Potential separation digital post         Yes           Potential separation digital post         500 V AC for 1 minute           • Potential separation digital outputs         Relays           • between the channels, in groups of         1           • Potential separation digital outputs         No           • between the channels, in groups of         2           • Potential separation digital outputs         Relays           • between the channels, in groups of         2           • Potential separation digital outputs         No	Forcing	Yes
Traces       2: Up to 512 KB of data per trace are possible         Integrated Functions       Counter         Counter       6         • Number of counters       6         • Counting frequency, max.       100 kHz         Frequency measurement       Yes         Outher of positioning axes via pulse-direction interface       Up to 4 with SB 1222         PID controller       Yes         Number of positioning axes via pulse-direction interface       Up to 4 with SB 1222         PID controller       Yes         Number of positioning axes via pulse-direction interface       Up to 4 with SB 1222         PID controller       Yes         Number of positioning axes via pulse-direction interface       Up to 4 with SB 1222         PID controller       Yes         Potential separation digital inputs       500 V AC for 1 minute         • Potential separation digital inputs       500 V AC for 1 minute         • between the channels, in groups of       1         • Potential separation digital outputs       Relays         • between the channels, in groups of       2         EMC       Interference immunity against discharge of static electricity         • Interference immunity against discharge of static electricity       Yes         • Interference immunity on supply lines acc.	Diagnostic buffer	
Number of configurable Traces     2: Up to 512 KB of data per trace are possible  Integrated Functions  Counter     Number of counters     6     Counting frequency, max.     100 kHz  Frequency measurement     Yes controlled positioning axes wax.     8 Number of positioning axes varget-direction interface     Up to 4 with SB 1222 PIC controller Number of alarm inputs     Yes Number of alarm inputs     Yes Potential separation digital inputs     Interference immunity against discharge of static electricity     Interference immunity on supply lines acc. to I	present	Yes
Integrated Functions     6       Counter     6       • Counting frequency, max.     100 kHz       Frequency measurement     Yes       controlled positioning axes, vance     8       Number of positioning axes vance     9 to 4 with SB 1222       PID controlled     Yes       Number of alarm inputs     4       Potential separation digital inputs     500 V AC for 1 minute       • Potential separation digital inputs     500 V AC for 1 minute       • Detween the channels, in groups of     1       • Potential separation digital outputs     Relays       • between the channels, in groups of     2       • Detential separation digital outputs     Relays       • between the channels, in groups of     2       • Detential separation digital outputs     Yes       • between the channels, in groups of     2       • Interference immunity against discharge of static electricity     4       • Interference immunity against discharge     8 kV       • Test voltage at air discharge     6 kV       Interference immunity on signal cables acc. to IEC 61000- 44     Yes       • Interference immunity on signal cables acc. to IEC 61000- 45     Yes       • Interference immunity against conducted variable disturbance induced by high-frequency fields     Yes       • Interference immunity against conducted variable disturbance indu		
Counter     6       • Counting Frequency, max.     100 kHz       Frequency measurement     Yes       controlled positioning areas, max.     8       Number of position-controlled positioning axes, max.     8       Number of atom inputs     4       Potential separation     Yes       Potential separation digital inputs     500 VAC for 1 minute       • Potential separation digital outputs     6       • Potential separation digital outputs     8       • Potential separation digital outputs     8       • Detential separation digital outputs     8       • Detential separation digital outputs     8       • Detential separation digital outputs     7       • between the channels, in groups of     2       EMC     1       Interference immunity against discharge of static electricity     Yes       • Interference immunity against discharge     8 kV       - Test voltage at air discharge     8 kV       - Test voltage at air discharge     6 kV       Interference immunity on supply lines acc. to IEC 61000- 44     Yes       • Interference immunity against voltage surge     Yes	-	2; Up to 512 KB of data per trace are possible
• Number of counters     6       • Counting frequency, max.     100 kHz       Frequency measurement     Yes       controlled positioning axes, max.     8       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 positioning axes via pulse-direction interface     Up to 4 with SB 1222       PID controller     Yes       Number of parametion     4       Potential separation digital inputs     500 V AC for 1 minute       • Detential separation digital outputs     500 V AC for 1 minute       • Detential separation digital outputs     Relays       • Detential separation digital outputs     Relays       • between the channels, in groups of     2       EMC     Interference immunity against discharge of static electricity       • Interference immunity act discharge     8 kV       - Test voltage at oristic-discharge     8 kV       - Test voltage at oristic-discharge     8 kV       • Interference immunity on signal cables acc. to IEC 61000- 4-5     Yes       • Interference immunity on signal cables acc. to IEC 61000- 4-5     Yes       • Interference immunity on signal cables acc. to IEC 61000- 4-5     Yes       • Interference immunity against high-frequency radiation acc. to IEC 61000-4- 4-5	Integrated Functions	
• Counting frequency, max.     100 kHz       Frequency measurement     Yes       controlled positioning axes, max.     8       Number of position controlled position interface     Up to 4 with SB 1222       Piterial separation digital inputs     4       • Obtential separation digital inputs     500 V AC for 1 minute       • Interface and ingula outputs     Relays       • Obtential separation digital outputs     Relays       • Interference immunity against discharge of static electricity     No       • Interference immunity against discharge of static electricity     Yes       • Interference immunity consupply lines acc. to IEC 61000-42     Yes       • Interference immunity on supply lines acc. to IEC 61000-44     Yes       • Interference immunity against conducted variable disturbance into-text of text or text or to text or text or to text or text or to text or text or text or to text or tex	Counter	
Frequency measurement     Yes       controlled positioning     Yes       Number of positioning axes via pulse-direction interface     Up to 4 with SB 1222       PID controller     Yes       Number of alarm inputs     4       Potential separation digital inputs     500 V AC for 1 minute       • Evential separation digital inputs     500 V AC for 1 minute       • Evential separation digital inputs     500 V AC for 1 minute       • Evential separation digital outputs     Relays       • Evential separation digital outputs     Relays       • Eventee the channels, in groups of     2       EMC     Interference immunity against discharge of static electricity       • Interference immunity against discharge of static electricity     Yes       • Interference immunity against discharge     8 kV       - Test voltage at contact discharge     8 kV       • Interference immunity on supply lines acc. to IEC 61000-42     Yes       • Interference immunity on supply lines acc. to IEC 61000-42     Yes       • Interference immunity against voltage surge     Yes       • Interference immunity against indepleted variable disturbance induced by high-frequency fields     Yes       Interference immunity against indepleted variable disturbance induced by high-frequency fields     Yes       Interference immunity against indepleted variable disturbance induced by high-frequency fields     Yes	Number of counters	6
controlled positioning         Yes           Number of position-controlled positioning axes, max.         8           Number of positioning axes via pulse-direction interface         Up to with SB 1222           PD controller         Yes           Number of alarm inputs         4           Potential separation digital inputs         500 V AC for 1 minute           • Potential separation digital inputs         500 V AC for 1 minute           • Potential separation digital outputs         Formation           • Potential separation digital outputs         Relays           • Potential separation digital outputs         Relays           • between the channels, in groups of         2           • Test voltage at air discharge of static electricity         • Interference immunity against discharge of static electricity           • Interference immunity on supply lines acc. to IEC 61000-42         Yes           • Interference immunity on supply lines acc. to IEC 61000-44         Yes           • Interference immunity against conducted variable disturbance induced by high-frequency fields         Yes           • Interferenc	<ul> <li>Counting frequency, max.</li> </ul>	100 kHz
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     900 VAC for 1 minute       • Obtential separation digital inputs     500 V AC for 1 minute       • between the channels, in groups of     1       Potential separation digital outputs     Relays       • between the channels     No       • thereference immunity against discharge of static electricity     Interference immunity against discharge       • Interference immunity against discharge     8 kV       - Test voltage at contact discharge     8 kV       - Test voltage at contact discharge     9 kV       Interference immunity against uotage surge     Yes       • Interference immunity against uotage surge     Yes       • Interference immunity aga	Frequency measurement	Yes
Number of positioning axes via pulse-direction interface     Up to 4 with SB 1222       PID controller     Yes       Number of alarm inputs     4       Potential separation digital inputs     500 V AC for 1 minute       • between the channels, in groups of     1       Potential separation digital outputs     Relays       • Potential separation digital outputs     Relays       • between the channels, in groups of     2       EMC     Interference immunity against discharge of static electricity       • Interference immunity against discharge of static electricity     Yes       • Interference immunity against discharge     8 kV       - Test voltage at air discharge     8 kV       - Test voltage at contact discharge     4       • Interference immunity against uber sec. to IEC 6 1000- 4.4     Yes       • Interference immunity on supply lines acc. to IEC 6 1000- 4.5     Yes       • Interference immunity against uber sec. to IEC 6 1000- 4.5     Yes       • Interference immunity against uber sec. to IEC 6 1000- 4.5     Yes       • Interference immunity against uber sec. to IEC 6 1000- 4.5     Yes       • Interference immunity against uber sec. to IEC 6 1000- 4.5     Yes       • Interference immunity against uber sec. to IEC 6 1000- 4.5     Yes       • Interference immunity against uber sec. to IEC 6 1000- 4.5     Yes       • Interference immunity against ubert sec	controlled positioning	Yes
PID controller       Yes         Number of alarm inputs       4         Potential separation       500 V AC for 1 minute         • Potential separation digital inputs       500 V AC for 1 minute         • between the channels, in groups of       1         Potential separation digital outputs       Relays         • Potential separation digital outputs       Relays         • Potential separation digital outputs       Relays         • between the channels, in groups of       2         EMC       Interference immunity against discharge of static electricity         • Interference immunity acaunist discharge       8 kV         - Test voltage at contact discharge       6 kV         Interference immunity to cable-borne Interference       6 kV         Interference immunity on supply lines acc. to IEC 61000- 4.4       Yes         • Interference immunity against voltage surge       Yes         • Interference immunity against output lines acc. to IEC 61000- 4.5       Yes         Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         • Interference immunity against ondige surge       Yes         • Interference immunity against point genery readiation acc. to IEC 61000-4-0       Yes         • Interference immunity against conducted variable disturbance induced by high-frequency fields </td <td>Number of position-controlled positioning axes, max.</td> <td>8</td>	Number of position-controlled positioning axes, max.	8
Number of alarm inputs       4         Potential separation       Potential separation digital inputs         • Potential separation digital inputs       500 V AC for 1 minute         • between the channels, in groups of       1         Potential separation digital outputs       Relays         • between the channels, in groups of       2         EMC       No         • between the channels, in groups of       2         EMC       Interference immunity against discharge of static electricity         • Interference immunity against discharge of static electricity       Yes         - Test voltage at air discharge       8 kV         - Test voltage at air discharge       9 kV         Interference immunity on supply lines acc. to IEC 61000- 4-4       Yes         • Interference immunity on supply lines acc. to IEC 61000- 4-5       Yes         Interference immunity against voltage surge       Yes         • Interference immunity on supply lines acc. to IEC 61000- 4-5       Yes         Interference immunity against high-f	Number of positioning axes via pulse-direction interface	Up to 4 with SB 1222
Potential separation digital inputs         Potential separation digital inputs         • Potential separation digital inputs         • Detential separation digital outputs         • Detential separation digital outputs         • Potential separation digital outputs         • Detential separation digital outputs         • Interference immunity against discharge of static electricity         • Interference immunity on supply lines acc. to IEC 61000- 4-4         • Interference immunity on supply lines acc. to IEC 61000- 4-5         Interference immunity against high-frequency radiation acc. to IEC 61000-4-5         Interference immunity against high-frequency radiation acc. to IEC 61000-4-6         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6         • Interf	PID controller	Yes
Potential separation digital inputs       500 V AC for 1 minute         • Potential separation digital inputs       500 V AC for 1 minute         • between the channels, in groups of       1         • Potential separation digital outputs       Relays         • Potential separation digital outputs       Relays         • Detential separation digital outputs       Relays         • between the channels, in groups of       2         EMC       Interference immunity against discharge of static electricity         • Interference immunity against discharge       8 kV         - Test voltage at contact discharge       8 kV         - Test voltage at contact discharge       6 kV         Interference immunity on supply lines acc. to IEC 61000- 4.4       Yes         • Interference immunity on supply lines acc. to IEC 61000- 4.4       Yes         • Interference immunity on supply lines acc. to IEC 61000- 4.5       Yes         Interference immunity against voltage surge       • Interference immunity against onducted variable disturbance induced by high-frequency fields         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-3       Yes         • Limit class A, for use in industrial areas       Yes; Group 1         • Limit class B, for use in industrial areas       Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 <td>Number of alarm inputs</td> <td>4</td>	Number of alarm inputs	4
• Potential separation digital inputs       500 V AC for 1 minute         • between the channels, in groups of       1         Potential separation digital outputs       Relays         • between the channels       No         • between the channels, in groups of       2         EMC       Interference immunity against discharge of static electricity         • Interference immunity against discharge of static electricity       Yes         - Test voltage at air discharge       8 kV         - Test voltage at contact discharge       6 kV         Interference immunity to cable-borne interference       Yes         • Interference immunity on supply lines acc. to IEC 61000- 4.4       Yes         • Interference immunity on signal cables acc. to IEC 61000- 4.4       Yes         • Interference immunity on supply lines acc. to IEC 61000- 4.4       Yes         • Interference immunity on supply lines acc. to IEC 61000- 4.5       Yes         Interference immunity against woltage surge       Yes         • Interference immunity against indip-frequency radiation acc. to IEC 61000-4.6       Yes         Interference immunity against indip-frequency radiation acc. to IEC 61000-4.6       Yes; Group 1         • Limit class A, for use in industrial areas       Yes; Group 1         • Limit class B, for use in residential areas       Yes; Wen appropriate measures are used to ensure	Potential separation	
• between the channels, in groups of         1           Potential separation digital outputs         Relays           • Potential separation digital outputs         Relays           • between the channels         No           • between the channels         No           • between the channels         2           EMC         Interference immunity against discharge of static electricity           • Interference immunity against discharge         8 kV           - Test voltage at air discharge         8 kV           - Test voltage at air discharge         6 kV           Interference immunity on supply lines acc. to IEC 61000-42         Yes           • Interference immunity on supply lines acc. to IEC 61000-42         Yes           • Interference immunity on supply lines acc. to IEC 61000-42         Yes           • Interference immunity on supply lines acc. to IEC 61000-42         Yes           • Interference immunity on supply lines acc. to IEC 61000-45         Yes           • Interference immunity against conducted variable disturbance induced variab	Potential separation digital inputs	
Potential separation digital outputs       Relays         • Potential separation digital outputs       Relays         • between the channels       No         • between the channels       No         • between the channels, ingroups of       2         EMC       Interference immunity against discharge of static electricity         • Interference immunity against discharge of static       Yes         electricity acc. to IEC 61000-4-2       8 kV         - Test voltage at ontact discharge       6 kV         Interference immunity on supply lines acc. to IEC 61000-4-4       Yes         • Interference immunity on supply lines acc. to IEC 61000-4-4       Yes         • Interference immunity on supply lines acc. to IEC 61000-4-4       Yes         • Interference immunity on supply lines acc. to IEC 61000-4-5       Yes         • Interference immunity on supply lines acc. to IEC 61000-4-5       Yes         • Interference immunity on supply lines acc. to IEC 61000-4-5       Yes         • Interference immunity against voltage surge       Yes         • Interference immunity against discharge of table disturbance induced by high-frequency fields       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-5       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-5       Yes	<ul> <li>Potential separation digital inputs</li> </ul>	500 V AC for 1 minute
• Potential separation digital outputs       Relays         • between the channels       No         • between the channels, in groups of       2         EMC       EMC         Interference immunity against discharge of static electricity       • Interference immunity against discharge of static electricity         • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2       Yes         • Test voltage at ontact discharge       8 kV         • Test voltage at contact discharge       6 kV         Interference immunity to cable-borne interference       Yes         • Interference immunity on supply lines acc. to IEC 61000-4-4       Yes         • Interference immunity on supply lines acc. to IEC 61000-4-5       Yes         • Interference immunity on supply lines acc. to IEC 61000-4-5       Yes         • Interference immunity on supply lines acc. to IEC 61000-4-5       Yes         • Interference immunity on supply lines acc. to IEC 61000-4-5       Yes         • Interference immunity on supply lines acc. to IEC 61000-4-5       Yes         • Interference immunity against voltage surge       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-5       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-5       Yes         • Interference immunity against voltage surge	<ul> <li>between the channels, in groups of</li> </ul>	1
• between the channels       No         • between the channels, in groups of       2         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       Ves         • Interference immunity on supply lines acc. to IEC 61000-4-4       Yes         • Interference immunity on signal cables acc. to IEC 61000-4-4       Yes         • Interference immunity against voltage surge       Interference immunity against voltage surge         • Interference immunity against voltage surge       Yes         • Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-5       Yes         Emission of radio interference acc. to ELC 61000-4-5       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-5       Yes         • Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         • Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         • Interference immunity against h		
• between the channels, in groups of       2         EMC         Interference immunity against discharge of static electricity       Yes         • Interference immunity against discharge       8 kV         - Test voltage at air discharge       8 kV         - Test voltage at contact discharge       6 kV         Interference immunity to cable-borne interference       6 kV         • Interference immunity to supply lines acc. to IEC 61000- 4.4       Yes         • Interference immunity on supply lines acc. to IEC 61000- 4.4       Yes         • Interference immunity against voltage surge       Yes         • Interference immunity against voltage surge       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000-4.6       Yes         Interference immunity against high-frequency radiation acc. to IEC 61000-4.6       Yes         Emission of radio interference acc. to EN 55 011       Yes; Group 1         • Limit class A, for use in industrial areas       Yes; Group 1         • Limit class B, for use in residential areas       Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011         Degree and class of protection       IP20	<ul> <li>Potential separation digital outputs</li> </ul>	Relays
EMC         Interference immunity against discharge of static electricity         • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2         - Test voltage at contact discharge         6 kV         Interference immunity to cable-borne interference         • Interference immunity on supply lines acc. to IEC 61000- 4-4         • Interference immunity on supply lines acc. to IEC 61000- 4-4         • Interference immunity on supply lines acc. to IEC 61000- 4-4         • Interference immunity on supply lines acc. to IEC 61000- 4-4         Interference immunity against voltage surge         • Interference immunity against conducted variable disturbance induced by high-frequency fields         • Interference immunity against toih-frequency radiation acc. to IEC 61000-4-6         Emission of radio interference acc. to EN 55 011         • Limit class A, for use in industrial areas       Yes; Group 1         • Limit class B, for use in residential areas       Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011         Degree and class of protection       IP20	between the channels	No
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       Ves         • Interference immunity on supply lines acc. to IEC 61000- 4-4       Yes         • Interference immunity on signal cables acc. to IEC 61000- 4-4       Yes         • Interference immunity against voltage surge       Yes         • Interference immunity on supply lines acc. to IEC 61000- 4-5       Yes         Interference immunity against voltage surge       Yes         • Interference immunity on supply lines acc. to IEC 61000- 4-5       Yes         Interference immunity against voltage surge       Yes         • Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         • Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000- 4-5       Yes         • Limit class A, for use in industrial areas       Yes; Group 1         • Limit class B, for use in residential areas       Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 <td< td=""><td></td><td>2</td></td<>		2
• Interference immunity against discharge of static       Yes         Test voltage at air discharge       8 kV         Test voltage at contact discharge       6 kV         Interference immunity to cable-borne interference       6 kV         Interference immunity on supply lines acc. to IEC 61000- 4-4       Yes         • Interference immunity on signal cables acc. to IEC 61000- 4-4       Yes         • Interference immunity against voltage surge       Yes         • Interference immunity on supply lines acc. to IEC 61000- 4-4       Yes         • Interference immunity against voltage surge       Yes         • Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         • Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000- 4-5       Yes         Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6       Yes         Emission of radio interference acc. to EN 55 011       Yes; Group 1         • Limit class A, for use in industrial areas       Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011         Degree and class of protection       IP20	EMC	
electricity acc. to IEC 61000-4-2 - Test voltage at air discharge 8 KV - Test voltage at contact discharge 6 kV Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 Interference immunity against voltage surge • Interference immunity against voltage surge • Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class G protection IP degree of protection		
Test voltage at contact discharge6 kVInterference immunity to cable-borne interferenceYes• Interference immunity on supply lines acc. to IEC 61000- 4-4Yes• Interference immunity on signal cables acc. to IEC 61000- 4-4Yes• Interference immunity against voltage surgeYes• Interference immunity against voltage surgeYes• Interference immunity against conducted variable disturbance inducted by high-frequency fieldsYesInterference immunity against conducted variable disturbance inducted by high-frequency fieldsYesInterference immunity against high-frequency radiation acc. to IEC 61000-4-6Yes• Interference immunity against high-frequency radiation acc. to IEC 61000-4-6Yes• Interference immunity against high-frequency radiation acc. to IEC 61000-4-6Yes• Interference acc. to EN 55 011Yes• Limit class A, for use in industrial areasYes; Group 1• Limit class B, for use in residential areasYes; Group 1• Limit class G protectionYesIP degree of protectionIP20		Yes
Test voltage at contact discharge6 kVInterference immunity to cable-borne interferenceYes• Interference immunity on supply lines acc. to IEC 61000- 4-4Yes• Interference immunity on signal cables acc. to IEC 61000- 4-4Yes• Interference immunity against voltage surgeYes• Interference immunity against voltage surgeYes• Interference immunity against conducted variable disturbance inducted by high-frequency fieldsYesInterference immunity against conducted variable disturbance inducted by high-frequency fieldsYesInterference immunity against high-frequency radiation acc. to IEC 61000-4-6Yes• Interference immunity against high-frequency radiation acc. to IEC 61000-4-6Yes• Interference immunity against high-frequency radiation acc. to IEC 61000-4-6Yes• Interference acc. to EN 55 011Yes• Limit class A, for use in industrial areasYes; Group 1• Limit class B, for use in residential areasYes; Group 1• Limit class G protectionYesIP degree of protectionIP20	— Test voltage at air discharge	8 kV
• Interference immunity on supply lines acc. to IEC 61000- 4-4       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 induced by high-frequency fields       Yes         • Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6       Yes         Emission of radio interference acc. to EN 55 011       Yes; Group 1         • Limit class A, for use in industrial areas       Yes; Group 1         • Limit class B, for use in residential areas       Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011         Degree and class of protection       IP20		6 kV
• Interference immunity on supply lines acc. to IEC 61000- 4-4       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 induced by high-frequency fields       Yes         • Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6       Yes         Emission of radio interference acc. to EN 55 011       Yes; Group 1         • Limit class A, for use in industrial areas       Yes; Group 1         • Limit class B, for use in residential areas       Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011         Degree and class of protection       IP20		
4-4       Interference immunity against voltage surge         Interference immunity on supply lines acc. to IEC 61000- 4-5       Yes         Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         Interference immunity against conducted variable disturbance induced by high-frequency fields       Yes         Interference immunity against high-frequency radiation acc. to IEC 61000-4-6       Yes         Emission of radio interference acc. to EN 55 011       Yes; Group 1         Limit class A, for use in industrial areas       Yes; Group 1         Limit class B, for use in residential areas       Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011         Degree and class of protection       IP20	• Interference immunity on supply lines acc. to IEC 61000-	Yes
Interference immunity on supply lines acc. to IEC 61000- 4-5  Interference immunity against conducted variable disturbance induced by high-frequency fields     Interference immunity against high-frequency radiation acc. to IEC 61000-4-6  Emission of radio interference acc. to EN 55 011     Limit class A, for use in industrial areas     Yes; Group 1     Limit class B, for use in residential areas     Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011  Degree and class of protection  IP degree of protection  IP20		Yes
4-5         Interference immunity against conducted variable disturbance induced by high-frequency fields         • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6         Emission of radio interference acc. to EN 55 011         • Limit class A, for use in industrial areas         • Limit class B, for use in residential areas         Yes; 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	Interference immunity against voltage surge	
• 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         • Limit class B, for use in residential areas       Yes; Group 1         • Limit class B, for use in residential areas       Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011         Degree and class of protection       IP20		Yes
acc. to IEC 61000-4-6         Emission of radio interference acc. to EN 55 011         • Limit class A, for use in industrial areas       Yes; Group 1         • Limit class B, for use in residential areas       Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011         Degree and class of protection       IP20	Interference immunity against conducted variable disturbance indu	ced by high-frequency fields
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     Pegree and class of protection     IP degree of protection     IP20	<ul> <li>Interference immunity against high-frequency radiation</li> </ul>	
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	Emission of radio interference acc. to EN 55 011	
for Class B according to EN 55011       Degree and class of protection       IP degree of protection       IP20	• Limit class A, for use in industrial areas	Yes; Group 1
IP degree of protection IP20	• Limit class B, for use in residential areas	
	Degree and class of protection	
Standards, approvals, certificates	IP degree of protection	IP20
	Standards, approvals, certificates	

Siemens Eco Profile (SEP)	Siemens EcoTech
Ecological footprint	
environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	106 kg
— global warming potential, (during production) [CO2	18.5 kg
eq]	10.0 kg
— global warming potential, (during operation) [CO2 eq]	88.2 kg
<ul> <li>global warming potential, (after end of life cycle)</li> <li>[CO2 eq]</li> </ul>	-1.12 kg
Ambient conditions	
Free fall	
Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C
• max.	60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical
At cold restart, min.	0° 0
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
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) // 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
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	
<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
<ul> <li>Operation, tested according to IEC 60068-2-6</li> </ul>	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	
<ul> <li>Resistant to commercially available coolants and lubricants</li> </ul>	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
<ul> <li>to biologically active substances according to EN</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna);
60721-3-3 — to chemically active substances according to EN	Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity
60721-3-3 — to mechanically active substances according to EN	degree 3); * Yes; Class 3S4 incl. sand, dust, *
60721-3-3 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	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity
60721-3-6 — to mechanically active substances according to EN	degree 3); * Yes; Class 6S3 incl. sand, dust; *
60721-3-6	
Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4	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 61086

• Protection against fouling acc. to EN 60664-3

• Military testing according to MIL-I-46058C, Amendment 7

• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

Yes; Class 2 for high reliability

Yes; Type 1 protection

Yes; Discoloration of coating possible during service life

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	130 mm		
Height	100 mm		
Depth	75 mm		
Weights			
Weight, approx.	585 g		
Classifications			
		Version	Classification

	Version	Classification
eClass	14	27-24-22-07
eClass	12	27-24-22-07
eClass	9.1	27-24-22-07
eClass	9	27-24-22-07
eClass	8	27-24-22-07
eClass	7.1	27-24-22-07
eClass	6	27-24-22-07
ETIM	9	EC000236
ETIM	8	EC000236
ETIM	7	EC000236
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

**General Product Approval** 

Manufacturer Declara-**Miscellaneous** <u>tion</u>





Metrological Approval

Maritime application EMV Environment <u>KC</u> Siemens EcoTech last modified:

12/8/2024 🖸