SIEMENS

Data sheet

6ES7214-1BH50-0XB0



SIMATIC S7-1200 G2: compact CPU 1214C AC/DC/RLY; power supply: AC 85-264 V AC at 47-63 Hz; onboard I/O: 14x DI 24 V DC; 10 DO relay 2 A; memory: program 250 KB data: 750 KB, retentivity: 20 KB

General information		
Product type designation	CPU 1214C AC/DC/Relay	
Firmware version	V1.0	
 FW update possible 	Yes	
Product function		
● I&M data	Yes; I&M0 to I&M3	
SysLog	Yes	
Engineering with		
 Programming package 	STEP 7 V20 or higher	
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)	80 mA at 120 V AC; 44 mA at 240 V AC	
Current consumption, max.	480 mA at 120 V AC; 275 mA at 240 V AC	
Inrush current, max.	20 A; at 264 V	
l²t	0.8 A ² ·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	Yes; 20.4 to 28.8V	
Short-circuit protection	Yes	
 Output current, max. 	400 mA	
Power loss		
Power loss, typ.	4 W	
Memory		
Work memory		
• integrated	1 000 kbyte	
• integrated (for program)	250 kbyte	
• integrated (for data)	750 kbyte	
Load memory		
• integrated	8 Mbyte	
 Plug-in (SIMATIC Memory Card), max. 	32 Gbyte; with SIMATIC memory card	

Backup		
• present	Yes	
maintenance-free	Yes	
without battery	Yes	
CPU processing times		
for bit operations, typ.	37 ns; / instruction	
for word operations, typ.	30 ns; / instruction	
for floating point arithmetic, typ.	74 ns; / instruction	
CPU-blocks		
Number of elements (total)	4 000; Blocks (OB, FB, FC, DB) and UDTs	
OB		
 Number of free cycle OBs 	100	
Number of time alarm OBs	20	
Number of delay alarm OBs	20	
Number of cyclic interrupt OBs	20; with minimum OB 3x cycle of 1 ms	
Number of process alarm OBs	50	
 Number of DPV1 alarm OBs 	3	
Number of isochronous mode OBs	1	
Number of startup OBs	100	
Number of asynchronous error OBs	4	
Number of synchronous error OBs	2	
Number of diagnostic alarm OBs	1	
Data areas and their retentivity	2011.1	
Retentive data area (incl. timers, counters, flags), max.	20 kbyte	
Flag	O librates Cine of hit manners - days	
• Size, max.	8 kbyte; Size of bit memory address area	
Local data	0411.4	
per priority class, max.	64 kbyte; max. 16 KB per block	
Address area		
Process image	4 block	
Inputs, adjustable Outputs, adjustable	1 kbyte	
Outputs, adjustable	1 kbyte	
Hardware configuration	10	
Number of modules per system, max. Time of day	10	
Clock		
Hardware clock (real-time)	Yes	
Backup time	480 h; Typical	
•	2 s; at 25 °C	
Deviation per day, max. Digital inputs	2.3, 0.1.2.3 ()	
Number of digital inputs	1/: Integrated	
of which inputs usable for technological functions	14; Integrated	
or which inputs usable for technological functions Source/sink input	8; HSC (High Speed Counting) Yes	
Number of simultaneously controllable inputs	100	
all mounting positions		
— up to 40 °C, max.	14	
Input voltage		
Rated value (DC)	24 V	
• for signal "0"	5 V DC or 0.5 mA	
• for signal "1"	15 V DC at 2.5 mA	
Input delay (for rated value of input voltage)		
for standard inputs		
— parameterizable	0.1 / 0.2 / 0.4 / 0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 µs; 0.05 / 0.1 / 0.2 / 0.4 /	
p	0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 ms	
— at "0" to "1", min.	0.1 µs	
— at "0" to "1", max.	20 ms	
for interrupt inputs		
— parameterizable	Yes	
for technological functions		
— parameterizable	single phase: 6 HSCs @ 100 kHz & 2 standard @ 30 kHz, quadrature phase: 6 HSCs @ 80 kHz & 2 standard @ 20 kHz	

Only land and the	
Cable length	FOO my FO my for to shape a given from the many
• shielded, max.	500 m; 50 m for technological functions
• unshielded, max.	300 m; for technological functions: No
Digital outputs	
Number of digital outputs	10; Relays
Switching capacity of the outputs	
with resistive load, max.	2 A
on lamp load, max.	30 W with DC, 200 W with AC
Output delay with resistive load	
• "0" to "1", max.	10 ms; max.
• "1" to "0", max.	10 ms; max.
Switching frequency	
of the pulse outputs, with resistive load, max.	Not recommended
Relay outputs	
 Number of relay outputs 	10
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000
Cable length	
• shielded, max.	500 m
• unshielded, max.	150 m
Analog inputs	
Number of analog inputs	0
Analog outputs	
Number of analog outputs	0
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
1. Interface	
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
RJ 45 (Ethernet)	Yes
 Number of ports 	2
integrated switch	Yes
Protocols	
IP protocol	Yes; IPv4
 PROFINET IO Controller 	Yes
PROFINET IO Device	Yes
 SIMATIC communication 	Yes
Open IE communication	Yes; Optionally also encrypted
Web server	Yes
Media redundancy	Yes
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
— PG/OP communication	Yes; encryption with TLS V1.3 pre-selected
— Isochronous mode	Yes
— IRT	Yes
— PROFlenergy	Yes; per user program
 Prioritized startup 	Yes
 Number of IO devices with prioritized startup, max. 	16
 Number of connectable IO Devices, max. 	31
 Of which IO devices with IRT, max. 	31
 Number of connectable IO Devices for RT, max. 	31
— of which in line, max.	31
 Activation/deactivation of IO Devices 	Yes
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	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.	
Update time for IRT		
— for send cycle of 1 ms	1 ms to 16 ms	
— for send cycle of 2 ms	2 ms to 32 ms	
— for send cycle of 4 ms	4 ms to 64 ms	
Update time for RT		
— for send cycle of 1 ms	1 ms to 512 ms	
— for send cycle of 2 ms	2 ms to 512 ms	
— for send cycle of 4 ms	4 ms to 512 ms	
PROFINET IO Device		
Services		
— PG/OP communication	Yes; encryption with TLS V1.3 pre-selected	
 Isochronous mode 	No	
— IRT	Yes	
— PROFlenergy	Yes; per user program	
— Shared device	Yes	
 Number of IO Controllers with shared device, max. 	2	
Protocols		
Supports protocol for PROFINET IO	Yes	
PROFIsafe	No	
PROFIBUS	No	
OPC UA	No	
AS-Interface	No	
Protocols (Ethernet)		
• TCP/IP	Yes	
• DHCP	Yes	
• SNMP	Yes	
• DCP	Yes	
• LLDP	Yes	
Number of connections		
 Number of connections, max. 	128; via integrated interfaces of the CPU and connected CPs / CMs	
 Number of connections reserved for ES/HMI/web 	10	
 Number of connections via integrated interfaces 	88	
Redundancy mode		
Media redundancy		
— MRP	Yes; as MRP redundancy manager and/or MRP client	
— MRPD	Yes	
SIMATIC communication		
S7 routing	No	
 S7 communication, as server 	Yes	
 S7 communication, as client 	Yes	
Open IE communication		
• TCP/IP	Yes	
— Data length, max.	8 kbyte	
several passive connections per port, supported	Yes	
• ISO-on-TCP (RFC1006)	Yes	
— Data length, max.	8 kbyte	
• UDP	Yes	
— Data length, max.	2 kbyte; 1 472 bytes for UDP broadcast	
• DHCP	Yes	
• DNS	Yes	
• SNMP	Yes	
• DCP	Yes	
• LLDP	Yes	
• Encryption	Yes; Optional	
Web server)	
• supported	Yes	
• HTTPS	Yes	
• web API	Yes	
Number of sessions, max.	30	
— Number of Sessions, max.	00	

User-defined websites Further protocols MODBUS MODBUS Yes communication supported as server as client User data per job, max. See online help (S7 communication, user data size) Number of connections overall PG Connections: 4 reserved; HMI Connections: 4 reserved / 82 max; S7 Connections: 78 max; Open User Connections: 78 max; Web Connections: 78 max; Open User Connections: 10 reserved / 88 max 77 message functions Number of login stations for message functions, max. Program alarms Yes Number of configurable program messages, max. Number of loadable program messages in RUN, max. Test commissioning functions Status/control Status/control Status/control PYes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters Forcing Forcing Forcing Pyes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters Forcing Pyes Traces Number of configurable Traces	
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Memory size per trace, max. Interrupts/diagnostics/status information Diagnostics indication LED	
Interrupts/diagnostics/status information Diagnostics indication LED	
Diagnostics indication LED	
• RUN/STOP LED Yes	
• ERROR LED Yes	
MAINT LED Yes	
Supported technology objects	
Motion Control Yes	
 Number of available Motion Control resources for technology objects 800 	
 Number of available Extended Motion Control resources for technology objects 	
Integrated Functions	
Counter	
• Number of counters 8	
• Counting frequency, max. 100 kHz; Ia.0 to Ia.5: 100 kHz in quadrature mode), Ia.6 to Ib.5: (20 kHz in quadrature mode)	30 kHz
Frequency measurement Yes	
PID controller Yes	
Number of pulse outputs 8; individually assigned to CPU and Signal Board	
Limit frequency (pulse) 100 kHz	
Potential separation	
Potential separation digital inputs	
Potential separation digital inputs Yes; field side to logic: 707 V DC (type test)	
• between the channels No	
• Number of potential groups 1	
Potential separation digital outputs	
Potential separation digital outputs Relays	
• between the channels No	
• Number of potential groups 1	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static Yes	
electricity acc. to IEC 61000-4-2	

- Test voltage at air discharge 8 kW - Test voltage at air discharge 6 kW - Interference immunity to calcid-borne interference - Interference immunity or possible borne interference - Interference immunity or possible sect to IEC 61000- 44 - Interference immunity against voltage surge - Interference immunity against conducted by interference immunity or surgiviline sect to IEC 61000- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4-		
Interference immunity is calcibit-concel interference - Interference immunity on supply lines acc. to IEC 61000 Interference immunity on supply lines acc. to IEC 61000 Interference immunity against voltages surge. - Interference immunity against conducted variable disaurance induced by high-frequency fields. - Interference immunity against conducted variable disaurance induced by high-frequency fields. - Interference immunity against conducted variable disaurance induced by high-frequency fields. - Interference immunity against conducted variable disaurance induced by high-frequency fields. - Interference immunity against conducted variable disaurance induced by high-frequency fields. - Interference immunity against conducted variable disaurance induced by high-frequency fields. - Interference immunity against conducted variable disaurance induced by high-frequency fields. - Ves. Cloud -	 Test voltage at air discharge 	8 kV
Interference immunity on supply lines acc. to IEC 81000. 4-4 Interference immunity on signal cables acc. to IEC 81000. 4-5 Interference immunity against voltage sages. 4-4 Interference immunity against voltage sages. 4-5 Interference immunity against conducted variable disburbance induced by high-frequency fields Interference immunity against conducted variable disburbance induced by high-frequency fields Interference immunity against conducted variable disburbance induced by high-frequency fields Interference immunity against post-frequency radiation acc. to IEC 81000-4 It is a consistent of the control of the second of the seco	Test voltage at contact discharge	6 kV
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- Interference immunity against voltage surge - Interference immunity against voltage surge - Interference immunity against conducted variable disturbance induced by high-frequency fields - Interference immunity against conducted variable disturbance induced by high-frequency fields - Interference immunity against conducted variable disturbance induced by high-frequency fields - Interference immunity against conducted variable disturbance induced by high-frequency fields - Interference immunity against conducted variable disturbance induced by high-frequency fields - Interference immunity against conducted variable disturbance induced by high-frequency fields - Interference immunity against conducted variable disturbance induced by high-frequency fields - Interference immunity against conducted variable disturbance induced by high-frequency fields - Interference immunity against conducted variable disturbance induced by high-frequency fields - Ves Coordinate of the field of the fields of the fi		Voo
interference immunity against conducted variable disturbance induced by high-frequency fields interference immunity against conducted variable disturbance induced by high-frequency fields interference immunity against conducted variable disturbance induced by high-frequency fields interference immunity against high-frequency radiation act. to IEC 61000-4.8 interference immunity against high-frequency radiation act. to IEC 61000-4.9 interference immunity against high-frequency radiation interference immunity against high-frequency radiation Yes Ves. Crrup 1 **Ex: When appropriate measures are used to ensure compliance with the limits for Crease B according in EN 65011 Pragree of protection IP 20 Standards, approvals, certificates CE mark Yes IU. approval Yes FM approval No ROM (formerly C-TICK) Yes FM approval No Marine approval No More approval **FREE Against Agai		res
4-5 Interference immunity against conducted variable disturbance induced by high-frequency fields • Interference immunity against high-frequency radiation acto ite of 1000-4-6 Emission of radio interference act to EN 55011 • Limit class B, for use in interior activities areas • Limit class B, for use in interior areas • Limit class B, for use in interior activities areas • Limit class B, for use in interior activities areas • Limit class B, for use in interior activities areas • Limit class B, for use in interior activities areas • Limit class B, for use in interior activities areas • Limit class B, for use in interior activities areas • Limit class B, for use in interior activities areas • Limit class B, for use in interior activities areas • Limit class B, for use in interior activities areas • Limit class B, for use in interior activities are used to ensure compliance with the limits for Class B according to EN 55011 • Page and class of protection • Page and	Interference immunity against voltage surge	
Interference immunity against conducted variable disturtance induced by high-frequency fields Interference immunity against high-frequency radiation acts to IEC 610004-8 Emission of radio interference acc. to EN 55 011 - Limit class A, for use in industrial areas - Limit class A, for use in industrial areas - Limit class A, for use in industrial areas - Ves, Group 1 - Ves	 Interference immunity on supply lines acc. to IEC 61000- 	Yes
Interference immunity against high-frequency radiation acto. Ite C 61000-4.8	4-5	
acc. to IEC 610004-6 Emission of radio interference acc. to IN 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 B, for use in residential areas For Class B according to EN 56011 Degree and class of protection IP20 Standards, approvals, certificates CE mark Ves. UL approval Ves. UL approval Ves. UL approval No RCM (formerly C-TICK) Yes KC approval No RCM (formerly C-TICK) No Marine approval No Morine approval No Morine approval No Ambient conditions Free bat • Fall height, max. Anbient temperature during operation • min. • max. • vertical installation, min. • horizontal installation, min. • vertical installation, min. • vert	, ,	, , ,
Emission of rando interference acc. to EN 55011 • Limit class A, for use in industrial areas **Limit class A, for use in industrial areas Yes, Group 1 Yes, Virtin 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 IP degree of protection UL approval CE mark Yes UL approval UL approval COLUS Yes FM approval No RCM (formerly C-TICK) Yes RCAD (formerly C-TICK) Yes Secure Boot Yes Secure Boot Yes Secure Boot Yes safely removing data No Ambient canditions First fall • Fall height, max. Ambient amprenture during operation • min. • horizontal installation, min. • horizontal installation, max. • horizontal installation, max. • wertical installation, max. * wertical installation, max. • horizontal installation, max. • wertical installation, max. * Ambient semperature during storage/transportation • min. • proventical installation, max. • horizontal installation on max. • horizontal installation max. • horizontal installation max. • horizontal installation max. • horiz		Yes
Limit class A, for use in industrial areas Limit class B, for use in residential areas Limit class B, for use in residential areas For class B according to EN 85011 Progree and class of protection IP degree of protection Product for Class B according to EN 85011 Product Class B, grown b, certificates CE mark Ves UL approval Yes CULus Yes CULus Yes CULus Yes RAM (formerly C-TICK) Yes RAM (formerly C-TICK) Yes RAM (formerly C-TICK) Yes RAM (formerly C-TICK) Yes Secure Boot Seque Boot Se		
Pegree and class of protection IP degree of protection of pr		Yes: Group 1
If class B according to EN 55011 Policy early protection IP degree of Protection IP degre		
IP degree of protection IP20		for Class B according to EN 55011
Standards, approvals, certificates CE mark Ves UL approval Ves UL approval Pes ARCM (formerly C-TICK) Yes KC approval No Marine approval No Marine approval Product functions / security / header signed firmware update Yes Secure Boot Secure Boot Secure Boot Yes Secure Boot Ambient conditions Free fall Fall height, max. Antibient temperature during operation Imm. Prince	Degree and class of protection	
CE mark UL approval Ves CULUS Yes CULUS Yes FM approval No RCM (formerly C-TICK) Yes KC approval No Marine approval No Ambiant conditions Free fall Fall height, max. O. 3 m; five times, in product package Ambiant temperature during operation No	IP degree of protection	IP20
UL approval CULUS Yes CULUS Yes FM approval No RCM (formerly C-TICK) Yes KC approval No Marine approval No More approval No Product functions / security / header Signed firmware update Secure Boot Safely removing data No Ambient conditions Free fall Fall height, max. O.3 m; five times, in product package Ambient conditions Free fall Fall height, max. O.3 m; five times, in product package Ambient temperature during operation Imin. Oracle of No condensation Oracle of No condensation Oracle of Installation, min. Oracle of Installation, max. Oracle orac	Standards, approvals, certificates	
CULUS FM approval FM approval No RCM (formerly C-TICK) Yes KC approval No Marine approval No Marine approval No More approval No Product functions / security / header signed firmware update Secure Boot Yes Secure Boot Ambient conditions Free fall Fall height, max. O.3 m; five times, in product package Ambient temperature during operation in min. Voc (No condensation in max. Ambient temperature during operation in min. Ambient temperature during storage firms approach Ambient temperature during storage firms port and alternate IO active Ambient temperature during storage firms portation in min. Ambient temperature during	CE mark	Yes
FM approval RCM (formerly C-TICK) Yes KC approval No Marine approval No Marine approval No Marine approval Yes Secure Boot Safety removing data Ambient conditions Free fall Fall height, max. Ambient conditions Free fall Fall height, max. Ambient conditions Free fall Fall height, max. Ambient conditions Free fall For No condensation I min. Phorizontal installation, min. Phorizontal installation, min. Phorizontal installation, max. Perfical installation, max. Performance Perform	UL approval	Yes
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No Marine approval No No Product functions / security / header	FM approval	No
Marine approval product functions? security / header signed firmware update Yes Secure Boot Yes safely removing data No Ambient conditions Free fall • Fall height, max. 0.3 m; five times, in product package Ambient temperature during operation • min20 °C; No condensation • min20 °C; No condensation • horizontal installation, min20 °C; No condensation • horizontal installation, min20 °C; No condensation • horizontal installation, max50 °C; at rated voltages, 50 % of max. specification and alternate IO active vertical installation, max50 °C; at rated voltages, 50 % of max. specification and alternate IO active vertical installation, max50 °C; at rated voltages, 50 % of max. specification and alternate IO active vertical installation, max50 °C; at rated voltages, 50 % of max. specification and alternate IO active vertical installation, max50 °C; at rated voltages, 50 % of max. specification and alternate IO active vertical installation, max50 °C; at rated voltages, 50 % of max. specification and alternate IO active vertical installation, max50 °C; at rated voltages, 50 % of max. specification and alternate IO active vertical installation, max50 °C; at rated voltages, 50 % of max. specification and alternate IO active vertical installation, max70 °C All pressure acc. to IEC 60068-2-13 • Operation, min540 hPa • Operation, max1140 hPa Allitude during operation relating to sea level • Installation altitude, min1000 m • In	RCM (formerly C-TICK)	Yes
signed firmware update Yes Secure Boot Yes Sacure Boot No Ambient conditions Free fall • Fall height, max. 0.3 m; five times, in product package Ambient temperature during operation • min20 °C; No condensation • max. specifications • horizontal installation, min20 °C; No condensation • horizontal installation, min20 °C; No condensation • wertical installation, min20 °C; No condensation • min40 °C Ambient temperature during storage/transportation • min40 °C • max. 70 °C Air pressure acc. to IEC 60068-2-13 • Operation, min540 hPa • Storage/transport, min540 hPa • Storage/transport, min540 hPa • Storage/transport, min1100 m • Installation altitude, min1000 m • Installation altitude, mix1000 m • Installation altitude, mix1000 m • Installation altitude, mix1000 m • Operation, max1000 m • Operation, max1000 m • Operation, max1000 m • Installation altitude, mix1000 m • Installation altitude, mix1000 m • Operation, mix1000 m • Operation, mix1000 m • Installation altitude, mix1000 m • Installation altitude, mix1000 m • Installation altitude, mix1000 m • Operation, mix1000 m • Operation, mix1000 m • Operation, mix1000 m • Installation altitude, mix1000 m • Installation	KC approval	No
signed firmware update Secure Boot Yes Secure Boot Ambient conditions Free fail Free fail Free fail Poly "C; 40 "C horizontal or 30 "C vertical at max. voltages and max. specifications horizontal installation, min. horizontal installation, min. horizontal installation, max. horizontal installation, max. vertical installation, max. vertical installation, max. horizontal installation, max. for "C; 80 condensation horizontal installation, max. for "C; No condensation horizontal installation, max. for "C; at rated voltages, 50 % of max. specification and alternate IO active vertical installation, max. for "C; at rated voltages, 50 % of max. specification and alternate IO active Ambient temperature during storage/transportation max. for "C Air pressure acc. to IEC 60068-2-13 Operation, min. Operation, max. Storage/transport, min. Stotage/transport, min. Stotage/transport, min. Stotage/transport, max. 1140 hPa Altitude during operation relating to sea level Installation altitude, min. Installation altitude, min. Installation altitude, min. Operation, max. Storage/transport, max. Storage/transport, max. Vibrations Vibrations Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-7 Yes Shock testing Ves; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms	Marine approval	No
Secure Boot safety removing data Amblent conditions Free fall Free fall Fall height, max. Amblent temperature during operation imin. horizontal installation, min. vertical installation, min. vertical installation, max. Vertical installation, min. vertical installation, max. for C; Ao condensation vertical installation, max. Vor C; No condensation imax. Anough C; at rated voltages, 50 % of max. specification and alternate IO active 40°C 70°C Air pressure acc. to IEC 60068-2-13 Operation, min. Operation, max. 1140 hPa Storage/transport, min. Storage/transport, min. Storage/transport, min. Storage/transport, min. Intellation altitude, min. Installation altitude, max. Vertical installation altitude, max. Storage/transport, max. Altitude during operation relating to sea level Installation altitude, max. Soom m; Restrictions for installation altitudes > 2 000 m, see manual Relative humidity Operation, max. Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Versible decording to IEC 60068-2-7 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms. Vertical installation.	product functions / security / header	
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Free fall	Secure Boot	Yes
Free fall Fall height, max. Ambient temperature during operation Fin. Fall height, max. Ambient temperature during operation Fin. Fall height, max. Ambient temperature during operation Fin. For inc. For in	safely removing data	No
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Ambient temperature during operation • min. • max. • max. • horizontal installation, min. • horizontal installation, max. • vertical installation, max. • vertical installation, max. • vertical installation, min. • vertical installation, max. •	Free fall	
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Max. A0 °C; 40 °C horizontal or 30 °C vertical at max. voltages and max. specifications horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. vertical installation, max. vertical installation, max. Ambient temperature during storage/transportation min. max. Arbient temperature during storage/transportation mmax. Arbient temperature during storage/transportation mmax. Arbient temperature during storage/transportation mmax. Arbient temperature during storage/transportation max. Arbient temperature during storage/transportation mmax. Arbient temperature during storage/transportation mmax. Arbient temperature during storage/transportation max. Arbient temperature during storage/transportation and alternate IO active Ambient temperature during attention alternate IO active Ambient devices for storage frams specification and alternate IO active Arbient during storage/transport and alternate IO active Arbient during storage, for storag	Ambient temperature during operation	
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Ambient temperature during storage/transportation • min. • max. 70 °C Air pressure acc. to IEC 60068-2-13 • Operation, min. • Operation, max. • Operation, max. • Storage/transport, min. • Storage/transport, max. Altitude during operation relating to sea level • Installation altitude, min. • Installation altitude, max. Poperation, max. 95 %; no condensation Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6 • Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms		
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To °C Air pressure acc. to IEC 60068-2-13 Operation, min. Operation, max. Operation, max. Storage/transport, min. Storage/transport, max. Altitude during operation relating to sea level Installation altitude, min. Installation altitude, max. Relative humidity Operation, max. Operation, max. Vibrations Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms		
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Relative humidity Operation, max. 95 %; no condensation Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing • tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms		
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Vibrations	·	95 %: no condensation
 Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms 		55 75,5 66/100/100/100/1
 Operation, tested according to IEC 60068-2-6 Shock testing tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms 	Vibration resistance during operation acc. to IEC 60068-	3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz
● 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		Yes
• 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		
Pollutant concentrations	•	
	Pollutant concentrations	

S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free • SO2 at RH < 60% without condensation configuration / header configuration / programming / header Programming language --LAD Yes — FBD Yes - SCL Yes Know-how protection • User program protection/password protection Yes Access protection • protection of confidential configuration data Yes • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Complete protection Yes • User administration Yes; device-wide Number of users 100 • Number of groups 100 Number of roles 50 programming / cycle time monitoring / header adjustable Yes Dimensions Width 80 mm 125 mm Height Depth 100 mm Weights

417 g

Weight, approx.

	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

EMV **General Product Approval**

Manufacturer Declaration





<u>KC</u>



<u>KC</u>

For use in hazardous locations

Environment

Industrial Communication







CCC-Ex



PROFINET

last modified:

1/22/2025



