SIEMENS

Data sheet

6ES7215-1HG40-0XB0



SIMATIC S7-1200, CPU 1215C, compact CPU, DC/DC/relay, 2 PROFINET ports, onboard I/O: 14 DI 24 V DC; 10 DO relay 2 A, 2 AI 0-10 V DC, 2 AO 0-20 mA DC, Power supply: DC 20.4-28.8 V DC, Program/data memory 125 KB

General information	
Product type designation	CPU 1215C DC/DC/Relay
Firmware version	V4.4
Engineering with	
 Programming package 	STEP 7 V16 or higher
Supply voltage	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Load voltage L+	
 Rated value (DC) 	24 V
 permissible range, lower limit (DC) 	20.4 V
 permissible range, upper limit (DC) 	28.8 V
Input current	
Current consumption (rated value)	500 mA
Current consumption, max.	1 500 mA; CPU with all expansion modules
Inrush current, max.	12 A; at 28.8 V DC
l²t	0.5 A 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	L+ minus 4 V DC min.
Power loss	
Power loss, typ.	12 W
Memory	
Work memory	
 integrated 	125 kbyte
• expandable	No
Load memory	
 integrated 	4 Mbyte
 Plug-in (SIMATIC Memory Card), max. 	with SIMATIC memory card
Backup	
• present	Yes
maintenance-free	Yes
without battery	Yes
CPU processing times	

for bit operations, typ.	0.08 µs; / instruction
for word operations, typ.	1.7 μs; / instruction
for floating point arithmetic, typ.	2.3 µs; / 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	10.11.1
Retentive data area (incl. timers, counters, flags), max.	10 kbyte
Flag	
Number, max.	8 kbyte; Size of bit memory address area
Local data	
 per priority class, max. 	16 kbyte
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
Digital inputs	
Number of digital inputs	14; Integrated
of which inputs usable for technological functions	6; HSC (High Speed Counting)
Source/sink input	Yes
	100
Number of simultaneously controllable inputs	
Number of simultaneously controllable inputs	
all mounting positions	14
all mounting positions — up to 40 °C, max.	14
all mounting positions — up to 40 °C, max. Input voltage	
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC)	24 V
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0"	24 V 5 V DC at 1 mA
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1"	24 V
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage)	24 V 5 V DC at 1 mA
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1"	24 V 5 V DC at 1 mA
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms,
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min.	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max.	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Scable length • shielded, max.	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Scable length • shielded, max. • unshielded, max.	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length • shielded, max. • unshielded, max.	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length • shielded, max. • unshielded, max. Digital outputs Number of digital outputs	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable for technological functions — parameterizable for technological functions — parameterizable Stielded, max. • unshielded, max. • unshielded, max. Switching capacity of the outputs	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No
all mounting positions — up to 40 °C, max. Input voltage • Rated value (DC) • for signal "0" • for signal "1" Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length • shielded, max. • unshielded, max. • unshielded, max. • with resistive load, max. • on lamp load, max.	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No 10; Relays 2 A
all mounting positions 	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No 10; Relays 2 A 30 W with DC, 200 W with AC
all mounting positions 	24 V 5 V DC at 1 mA 15 V DC at 2.5 mA Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four 0.2 ms 12.8 ms Yes Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz 500 m; 50 m for technological functions 300 m; for technological functions: No 10; Relays 2 A

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	2
Input ranges	
Voltage	Yes
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	≥100k ohms
Cable length	
• shielded, max.	100 m; twisted and shielded
Analog outputs	
Number of analog outputs	2
Output ranges, current	
• 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	
 Resolution with overrange (bit including sign), max. 	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
 Number of ports 	2
integrated switch	Yes
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
 SIMATIC communication 	Yes
Open IE communication	Yes; Optionally also encrypted
 Open IE communication Web server	Yes
 Open IE communication Web server Media redundancy	
Open IE communication Web server Media redundancy PROFINET IO Controller	Yes Yes; as MRP client
Open IE communication Web server Media redundancy PROFINET IO Controller Transmission rate, max.	Yes
Open IE communication Web server Media redundancy PROFINET IO Controller Transmission rate, max. Services	Yes Yes; as MRP client 100 Mbit/s
Open IE communication Web server Media redundancy PROFINET IO Controller Transmission rate, max. Services — PG/OP communication	Yes Yes; as MRP client 100 Mbit/s Yes
Open IE communication Web server Media redundancy PROFINET IO Controller Transmission rate, max. Services — PG/OP communication — Isochronous mode	Yes Yes; as MRP client 100 Mbit/s Yes No
Open IE communication Web server Media redundancy PROFINET IO Controller Transmission rate, max. Services — PG/OP communication — Isochronous mode — IRT	Yes Yes; as MRP client 100 Mbit/s Yes No No
Open IE communication Web server Media redundancy PROFINET IO Controller Transmission rate, max. Services — PG/OP communication — Isochronous mode — IRT — PROFlenergy	Yes Yes; as MRP client 100 Mbit/s Yes No No No
Open IE communication Web server Media redundancy PROFINET IO Controller Transmission rate, max. Services — PG/OP communication — Isochronous mode — IRT — PROFlenergy — Prioritized startup	Yes Yes; as MRP client 100 Mbit/s Yes No No No Yes
Open IE communication Web server Media redundancy PROFINET IO Controller Transmission rate, max. Services — PG/OP communication — Isochronous mode — IRT — PROFlenergy	Yes Yes; as MRP client 100 Mbit/s Yes No No No

- Number of connectable IO Devices for RT,	16
max.	40
— of which in line, max.	16
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.
PROFINET IO Device	
Services	
— PG/OP communication	Yes
— Isochronous mode	No
— IRT	No
- PROFlenergy	Yes
— Shared device	Yes
 — Number of IO Controllers with shared device, 	2
max.	
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIBUS	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required
AS-Interface	Yes; CM 1243-2 required
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Redundancy mode	
Media redundancy	
— MRP	Yes
SIMATIC communication	
S7 routing	Yes
Open IE communication	
• TCP/IP	Yes
— Data length, max.	8 kbyte
 ISO-on-TCP (RFC1006) 	Yes
— Data length, max.	8 kbyte
• UDP	Yes
— Data length, max.	1 472 byte
Web server	
supported	Yes
User-defined websites	Yes
OPC UA	
Runtime license required	Yes
OPC UA Server	Yes; Data access (read, write, subscribe), runtime license required
— Number of sessions, max.	5
 Number of accessible variables, max. 	1 000
 Number of subscriptions per session, max. 	5
— Sampling interval, min.	100 ms
— Publishing interval, min.	200 ms
— Number of monitored items, max.	500
- Number of server interfaces, max.	2
 — Number of nodes for user-defined server interfaces, max. 	1 000
Further protocols	
MODBUS	Yes
Communication functions	
S7 communication	

	Y.
 supported 	Yes
• as server	Yes
• as client	Yes
User data per job, max.	See online help (S7 communication, user data size)
Number of connections	
• overall	8 connections for open user communication (active or passive): TSEND_C, TRCV_C, TCON, TDISCON, TSEND and TRCV, 8 CPU/CPU connections (Client or Server) for GET/PUT data, 6 connections for dynamic assignment to GET/PUT or open user communication
Test commissioning functions	
Status/control	
 Status/control variable 	Yes
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Forcing	
• Forcing	Yes
Diagnostic buffer	
• present	Yes
Traces	
 Number of configurable Traces 	2
Memory size per trace, max.	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
Integrated Functions	
Number of counters	6
Counting frequency (counter) max.	100 kHz
Frequency measurement	Yes
controlled positioning	Yes
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	
Potential separation digital inputs	
Potential separation digital inputs	500V AC for 1 minute
 between the channels, in groups of 	1
Potential separation digital outputs	
Potential separation digital outputs	Relays
between the channels	No
 between the channels, in groups of 	2
EMC	
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 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 	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	e induced by high-frequency fields
 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 	Yes

Eunit class A, for use in industrial areas Yes: Group 1 Yes:	Emission of radio interference acc. to EN 55 011	
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 Proceedings and class of protection IP degree of protection IP degree of protection IP degree of protection IP degree of protection C E mark Ves C E mark Ves C Lapproval Yes Ves Culus Yes Ves Culus Yes Ves Ves Culus Yes Ves Ves Culus Yes Control Yes Culus Yes Yes Control Yes Culus Yes Yes Yes Culus Yes		Yes: Group 1
the limits for Class B according to EN 55011 Pegres and class of protection Pdegree of protection Pdegree of protection Particula, approval, certificatos CE mark CE mark CE mark CE approval CE mark CE approval Ves CA approval Ves CA approval Pege a Ambient emportant Ambient emperature during operation Pere fail Pege fail neight, max. 0.3.m Ambient emperature during operation Protection installation, min. 20 °C Protection resistance during storage/transportation Protection, max. 00 °C Particul installation, min. 20 °C Protection, max. 00 °C Particul installation, max. 00 °C Particul installation Particul Particul Particul Particul Particul Partinvertion Particul Particul Partinvertion Particul Particul Partic		
IP degree of protection IP 20 Standards, approvals, certificates (Peas) CE mark Yes UL approval Yes Collus Yes FM approval Yes K3 approval Yes Ambient temportal Yes Ambient temperature during operation Yes • Fiel height, max. 0.3 m Ambient temperature during operation 20 °C • min. 20 °C • norticati installation, min. 20 °C • horizontal installation, min. 20 °C • horizontal installation, max. 60 °C • Ambient temperature during storgetransportation 60 °C • max. 70 °C • Arbitent temperature during storgetransportation 60 °C • min. 40 °C • operation, min. 40 °C • Operation, min. 1080 Pla • Storagetransport, min. 1080 Pla • Storagetransport, min. 1000 m • Installation althude, max. 1080 Pla • Storagetransport, max. 1080 Pla • Storagetransport, max.		
Standards approvals, certificates Yes CE mark Yes UL approval Yes CULus Yes FM approval Yes K6 approval Yes Ambient conditions Yes Free fail 6.3 m Ambient conditions 0.3 m Ambient temperature during operation 20 °C • min. 20 °C • max 60 °C, Number of simultaneously activated inputs or outputs 7 or 5 (no of °C, Number on prints) at 60 °C vertical • horizontal installation, min. 20 °C • horizontal installation, max. 60 °C • vertical installation, max. 50 °C • horizontal installation, max. 50 °C • wortical installation, max. 50 °C • norizontal installation, max. 50 °C • wortical installation, max. 50 °C • operation, min. 40 °C • operation, max. 1080 hPa • Operation, max. 1080 hPa • Storagetransport, max. 1080 hPa • Installation allitude, minx. 2 00 m	Degree and class of protection	
CE mark Yes UL approval Yes CULUS Yes FM approval Yes KC approval Yes Marine approval Yes Anbient conditions Yes Image: Conditions Yes	IP degree of protection	IP20
CE mark Yes UL approval Yes CULUS Yes FM approval Yes FM approval Yes Marine approval Yes Abbint conditions Yes Free fail Yes • Frail height, max. 0.3 m Ambient conditions So 'C, Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 'C vertical, 14 or 10 at 65 'C horizontal or 50 'C vertical, 14 or 10 at 65 'C horizontal installation, min. • horizontal installation, min. -20 'C • horizontal installation, min. -20 'C • vertical installation, max. 60 'C • vertical installation, max. 50 'C • vertical installation, min. -20 'C • vertical installation, max. 50 'C • Operation, max. 100 'C • operation, min. -40 'C • Operation, min. 1080 hPa • Storage/transport, min. 1080 hPa • Installation altrude, max. 200 'C • Installation altrude, max. 200 'C • Operation, max. 1000 m • Installation altrude, max. 200 'C	Standards, approvals, certificates	
UL approval Yes cULus Yes cNapproval Yes KG approval Yes Ambine approval Yes Ambine sproval Yes		Yes
cULUS Yes FM approval Yes KC approval Yes Mathem conditions Yes Free fail • Fail height, max. 0.3 m Ambient conditions • min. -20 °C • horizontal installation, min. -20 °C • horizontal installation, min. -20 °C • horizontal installation, min. -20 °C • vertical installation, min. -20 °C • Operation, min. -100 °C • Ambient remeasure acc. to IEC 60088-2-13 •0 °C • Operation, max. 1080 hPa • Storage/transport, min. -1000 m • Installation aftude, min. -1000 m • Installation aftude, min. -1000 m • Installatin aftude, min. -1000 m		
FM approval Yes KC approval Yes Ambien conditions * Free fall • • Fall height, max. 0.3 m Ambient temperature during operation * • min. - • mix. 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjusted installation, min. • or c: > 0° °C • horizontal installation, min. -20 °C • horizontal installation, min. -20 °C • vertical installation, min. -20 °C • vertical installation, max. 50 °C • vertical installation, min. -20 °C • operation, max. 50 °C Ambient temperature during storage/transportation * • operation, max. 1080 hPa • Operation, max. 1080 hPa • Storage/transport, max. 1080 hPa • Installation attrude, max. 2 000 m • Installation attrude, max. 2 000 m • Operation, max. 2 g (m/s²)	· · ·	Yes
KC approval Yes Marine approval Yes Ambient conditions • Fail height, max. 0.3 m Ambient temperature during operation -20 °C • min. -20 °C • nex. 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 installation, min. • horizontal installation, min. -20 °C • vertical installation, min. -20 °C • vertical installation, max. 60 °C • vertical installation, max. 50 °C • vertical installation, max. 50 °C • vertical installation, min. -20 °C • vertical installation, min. -20 °C • vertical installation, min. -20 °C • operation, max. 10°C • operation, min. -0 °C • Operation, max. 1080 hPa • Operation, max. 1080 hPa • Altivate during operation relating to sea level - • Installation altitude, max. 2000 m • Relative humidity - • Operation, max. 1080 hPa Altitude during operation acc: to IEC 2 g (m/s²) wal		Yes
Marine approval Yes Ambient conditions Free fail • Fail helight, max. 0.3 m Ambient temperature during operation - • mix. 60 °C, Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical. • horizontal installation, min. -20 °C • encisiontal installation, min. -20 °C • encisiontal installation, min. -20 °C • encisional installation, max. 60 °C • encisional installation, max. 50 °C • encisional installation, max. 50 °C • encisional installation, max. 50 °C • encisional installation, max. 70 °C • operation, min. -40 °C • operation, min. -1080 hPa • Operation, min. -1080 hPa • listallation altitude, max. 20 0m • listallation altitude, min. -1000 m • installation altitude, min. -1000 m • listallation altitude, min. -1000 m • listallation altitude, max. 20 °C • Operation, max. 95 %; no condentisation • Vibration resistan		Yes
Ambient conditions Free fail 0.3 m Ambient temperature during operation -20 °C • min. -20 °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. • horizontal installation, min. -20 °C • borizontal installation, min. -20 °C • vertical installation, max. 60 °C • wertical installation, max. 60 °C • Ambient temperature during storage/transportation - • min. -0 °C • Operation, max. 1080 hPa • Operation, max. 1080 hPa • Storage/transport, max. 1080 hPa • Installation altitude, min. -1 000 m • Installation altitude, max. 2 000 m Relative humidity • Operation, tested according to IEC 60068-2-6 • Operation, tested according to IEC 60068-2-6 Yes • Op		Yes
Free fail 0.3 m Ambient temperature during operation 0.0 m • min. -20 °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 installation, max. • horizontal installation, max. 60 °C • vertical installation, max. 60 °C • vertical installation, max. 50 °C • vertical installation, max. 50 °C Ambient temperature during storagetransportation -40 °C • min. -40 °C • max. 70 °C Arbitomatic temperature during storagetransportation -40 °C • min. -40 °C • max. 70 °C Arbitomatic temperature during storagetransportation -40 °C • Operation, min. 1080 hPa • Storage/transport, max. 1080 hPa • Storage/transport, max. 1080 hPa • Mitude during operation relating to sea level -1 000 m • installation attruck, min. -1 000 m • Installation attruck, max. 95 %; no condensation Vibration Vibrations • Vibration resistance during operation re		
		
Ambient temperature during operation -20 °C • min. -20 °C • max. 60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C vertical - 14 or 10 at 55 °C horizontal in 50 °C vertical installation, min. -20 °C • horizontal installation, min. -20 °C • vertical installation, min. -20 °C • vertical installation, max. 60 °C • vertical installation, max. 50 °C Ambient temperature during storage/transportation -40 °C • inin. -40 °C • nax. 70 °C Alt pressure acc. to IEC 60068-2-13 -40 °C • Operation, min. 40 °C • Operation, min. 40 °C • Operation, min. 1080 hPa • Storage/transport, min. 660 hPa • Storage/transport, min. 660 hPa • Installation altitude, max. 2 000 m Relative humidity -1 000 m • Installation altitude, max. 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Vibrations - • Operation, teststance during operation acc. to IEC 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Configuration - <tr< td=""><td></td><td>0.3 m</td></tr<>		0.3 m
• min. -20 °C • max. 60 °C, Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent plotits) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical • horizontal installation, min. -20 °C • horizontal installation, max. 60 °C • vertical installation, max. 70 °C Ambient temperature during storage/transportation • • installation, max. 70 °C • operation, max. 1080 hPa • Operation, max. 1080 hPa • Storage/transport, max. 1080 hPa Altitude during operation relating to sea level • • Installation altitude, max. 20 000 m • operation, max. 95 %; no condensation • Operation, max. 95 %; no condensation • Operation, related according to IEC 60068-2-6 Yes • Noration resistance during operation acc. to IEC 60068-2-7 Yes • Operation, tisel according to IEC 60068-2-7 Yes <		0.0 m
• 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 installation, min. • horizontal installation, min. -20 °C • vertical installation, max. 60 °C • vertical installation, max. 50 °C • vertical installation, max. 70 °C • vertical installation, max. 70 °C • nim. 40 °C • nim. 70 °C • operation, max. 1080 hPa • Storage/transport, max. 1080 hPa • Installation altitude, min. -1 000 m • Installation altitude, max. 2 0 (m/s²) wall mounting. 1 g (m/s²) DIN rail • Operation, max. 95 %, no condensation Vibrations 2 g (m/s²) wall mounting. 1 g (m/s²) DIN rail • Operation, testel according to IEC 60068-2-6 <td></td> <td>-20 °C</td>		-20 °C
adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C • horizontal installation, min. -20 °C • vertical installation, max. 60 °C • vertical installation, min. -20 °C • vertical installation, max. 50 °C • operation, max. 70 °C • Operation, max. 1 080 hPa • Operation, max. 1 080 hPa • Storage/transport, max. 1 080 hPa • Installation altitude, min. -1 000 m • Installation altitude, max. 2 000 m Relative humidity - • Operation, max. 95 %; no condensation Vibration - • Operation, tested according to IEC 60068-2-27 Yes • Operation, tested according to IEC 60068-2-27 Yes • Operation, tested according to IEC 60068-2-27 Yes • Shock testing -		
 horizontal installation, max. 60 °C vertical installation, min. 20 °C wertical installation, max. 50 °C Ambient temperature during storage/transportation min. 40 °C max. 70 °C Air pressure acc. to IEC 60068-2-13 Operation, min. Storage/transport, min. Storage/transport, min. Storage/transport, max. 1080 hPa Storage/transport, max. 1080 hPa Storage/transport, max. 1080 hPa Storage/transport, max. 1080 hPa Installation altitude, min. Installation altitude, min. Operation, max. 2000 m Relative humidity Operation, tested according to IEC 60068-2-6 Yes Operation, tested according to IEC 60068-2-7 Yes Configuration Installation to IEC 60068-2-7 Yes Configuration IEC 60068-2-7 Yes Configuration IEC 60068-2-7 Yes Configuration Vibration resistance during operation acc. to IEC configuration IEC 60068-2-7 Yes Configuration Version Stock testing IEC 60068-2-7 Yes Configuration Version Yes Stock testing IEC 60068-2-10 Yes Stock testing IEC 60068-2-27 Yes Configuration Version protection/password protection Yes Stock testing Protection level: Readivitie protection Yes Protection level: Write protection Yes Protection level: Write protection Yes		adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C
• vertical installation, max. -20 °C • vertical installation, max. 50 °C Ambient temperature during storage/transportation -40 °C • max. 70 °C Air pressure acc. to IEC 60068-2-13 -0 operation, min. • Operation, max. 1 080 hPa • Operation, max. 1 080 hPa • Storage/transport, max. 1 080 hPa • Installation altitude, min. -1 000 m • Installation altitude, max. 2 000 m Relative humidity -0 operation, max. • Operation, max. 95 %; no condensation • Installation altitude, max. 2 g (m/s ²) wall mounting, 1 g (m/s ²) DIN rail • Operation, tested according to IEC 60068-2-6 Yes • Vibration resistance during operation acc. to IEC 2 g (m/s ²) wall mounting, 1 g (m/s ²) DIN rail • Operation, tested according to IEC 60068-2-6 Yes • Shock testing - • tested according to IEC 60068-2-7 Yes • Configuration Yes - FBD Yes - FBD Yes - SCL Yes • Sock protection Yes • Bick protection levie: Kadwi	 horizontal installation, min. 	-20 °C
• vertical installation, max. 50 °C Ambient temperature during storage/transportation	 horizontal installation, max. 	60 °C
Ambient temperature during storage/transportation -40 °C • min. -40 °C • max. 70 °C Air pressure acc. to IEC 60068-2-13 - • Operation, min. 795 hPa • Operation, max. 1080 hPa • Storage/transport, max. 1080 hPa • Storage/transport, max. 1080 hPa • Installation attitude, min. -1 000 m • Installation attitude, max. 2 000 m Relative humidity - • Operation, max. 95 %; no condensation Vibrations - • Vibration resistance during operation acc. to IEC 60068-2-6 Yes • Vibration tresistance during operation acc. to IEC 60068-2-6 Yes • Operation, tested according to IEC 60068-2-7 Yes Configuration - Programming - Programming language - - LAD Yes - FBD Yes - FBD Yes - Solc Yes - Solc by protection Yes - FBC Yes - FBD Yes - Bock protection	 vertical installation, min. 	-20 °C
 min. -40 °C max. 70 °C Air pressure acc. to IEC 60068-2-13 Operation, min. Operation, max. Operation, max. 1080 hPa Storage/transport, max. 1080 hPa Attitude during operation relating to sea level Installation altitude, min. Installation altitude, max. 2000 m Relative humidity Operation, max. 95 %; no condensation Vibration resistance during operation acc. to IEC Operation, tested according to IEC 60068-2-6 Yes Operation, tested according to IEC 60068-2-6 Yes Torgramming Programming language - LAD - FBD Yes - SCL Yes Know-how protection Yes Elock protection Yes Access protection Yes Protection level: Write protection Yes Protection level: Complete protection Yes Protection level: Complete protection Yes 	 vertical installation, max. 	50 °C
• max. 70 °C Air pressure acc. to IEC 60068-2-13	Ambient temperature during storage/transportation	
Air pressure acc. to IEC 60068-2-13 • Operation, min. • Operation, max. • Operation, max. • Storage/transport, max. • Ostorage/transport, max. • 1080 hPa • Altitude during operation relating to sea level • Installation altitude, min. • Installation altitude, max. • Operation, tested according to IEC 60068-2-6 Yes Configuration • tested according to IEC 60068-2-27 Yes Configuration Programming Programming Ianguage - LAD - SCL Yes - SCL	• min.	-40 °C
• Operation, min. 795 hPa • Operation, max. 1 080 hPa • Storage/transport, min. 660 hPa • Storage/transport, max. 1 080 hPa Attitude during operation relating to sea level - • Installation altitude, min. -1 000 m • Installation altitude, max. 2 000 m Relative humidity - • Operation, max. 95 %; no condensation Vibration Vibration resistance during operation acc. to IEC co068-2-6 • Operation, tested according to IEC 60068-2-6 Yes • Operation, tested according to IEC 60068-2-6 Yes • Operation Yes • Operation tested according to IEC 60068-2-7 Yes • Operation Yes • Operation tested according to IEC 60068-2-7 Yes • Operation Yes • Operation Yes • Table Yes • Operation Yes • FBD Yes - SCL Yes - SCL Yes • Block protection Yes • Block protection Yes • Block protection Yes </td <td>• max.</td> <td>70 °C</td>	• max.	70 °C
 Operation, max. 1080 hPa Storage/transport, min. 660 hPa Storage/transport, max. 1080 hPa Altitude during operation relating to sea level Installation altitude, min. -1 000 m Installation altitude, max. 2000 m 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 Yes Shock testing tested according to IEC 60068-2-6 Yes Configuration IEC 60068-2-7 Yes Configuration IEC 60068-2-7 Yes Configuration User program protection/password protection Ves Shock totor Yes Know-how protection/password protection Yes Elock protection Yes Access protection Yes Protection level: Write protection Yes Protection level: Write protection Yes Protection level: Complete protection Yes 	Air pressure acc. to IEC 60068-2-13	
• Storage/transport, min.660 hPa• Storage/transport, max.1 080 hPaAttitude during operation relating to sea level• Installation attitude, min1 000 m• Installation attitude, max.2 000 mRelative humidity• Operation, max.95 %; no condensationVibrations• Vibration resistance during operation acc. to IEC 60068-2-62 g (m/s²) wall mounting, 1 g (m/s²) DIN rail• Operation, tested according to IEC 60068-2-6YesShock testing• tested according to IEC 60068-2-7YesConfigurationProgrammingProgramming language- LADYes- SCLYes- SCLYesKnow-how protection• User program protection/password protection• Copy protection• Copy rotection• Copy rotection• Protection level: Write protectionYes• Protection level: Write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes	• Operation, min.	795 hPa
• Storage/transport, max. 1 080 hPa Attitude during operation relating to sea level • Installation altitude, min. -1 000 m • Installation altitude, max. 2 000 m Relative humidity - • Operation, max. 95 %; no condensation Vibration resistance during operation acc. to IEC 60068-2-6 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail • Vibration tested according to IEC 60068-2-6 Yes Shock testing - • lested according to IEC 60068-2-7 Yes Configuration Yes Programming language - - LAD Yes - FBD Yes - FBD Yes Know-how protection/password protection Yes • LAD Yes • Slock protection Yes - FBD Yes - SCL Yes Know-how protection/password protection Yes • Block protection Yes • Copy protection Yes • Scote protection Yes • FRD - • Protection level: Write protection Yes	 Operation, max. 	1 080 hPa
Attitude during operation relating to sea level -1 000 m • Installation altitude, min. -1 000 m • Installation altitude, max. 2 000 m Relative humidity -0 peration, max. • Operation, max. 95 %; no condensation Vibrations - • Vibration resistance during operation acc. to IEC 60068-2-6 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail 60068-2-6 Yes Shock testing - • lested according to IEC 60068-2-6 Yes Shock testing - • lested according to IEC 60068-2-7 Yes Configuration - Programming - Programming language - - LAD Yes - FBD Yes - SCL Yes Know-how protection Yes • Operation, protection/password protection Yes • Block protection Yes • Disck protection Yes • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Complete protection Yes	 Storage/transport, min. 	660 hPa
 Installation altitude, min. Installation altitude, max. 2 000 m 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 Operation, tested according to IEC 60068-2-6 Shock testing etested according to IEC 60068-2-7 Yes Configuration Programming language - LAD - FBD - SCL Yes Know-how protection User program protection/password protection Yes Block protection Yes Block protection Yes Block protection Yes Protection level: Write protection Yes Protection level: complete protection Yes 	 Storage/transport, max. 	1 080 hPa
• Installation altitude, max. 2 000 m Relative humidity 95 %; no condensation • Operation, max. 95 %; no condensation Vibrations 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail • Vibration resistance during operation acc. to IEC 60068-2-6 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail • Operation, tested according to IEC 60068-2-6 Yes Shock testing - • tested according to IEC 60068-2-7 Yes Configuration - Programming - Programming language - - LAD Yes - FBD Yes - SCL Yes Shock protection Yes • User program protection/password protection Yes • Block protection Yes • Block protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes	Altitude during operation relating to sea level	
Relative humidity • Operation, max. 95 %; no condensation Vibrations • Vibration resistance during operation acc. to IEC 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail 60068-2-6 Yes • Operation, tested according to IEC 60068-2-6 Yes Shock testing • • lested according to IEC 60068-2-27 Yes Configuration Yes Programming Programming language - LAD Yes - FBD Yes - SCL Yes Know-how protection Yes • Block protection Yes • Block protection Yes • Block protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes	 Installation altitude, min. 	-1 000 m
• Operation, max.95 %; no condensationVibrations• Vibration resistance during operation acc. to IEC 60068-2-62 g (m/s²) wall mounting, 1 g (m/s²) DIN rail• Operation, tested according to IEC 60068-2-6YesShock testing-• tested according to IEC 60068-2-7YesConfiguration-Programming-Programming language LADYes- FBDYes- SCLYesKnow-how protectionYes• User program protection/password protectionYes• Block protectionYes• Block protectionYes• Protection level: Write protectionYes• Protection level: Write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes	 Installation altitude, max. 	2 000 m
Vibrations 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail 60068-2-6 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail • Operation, tested according to IEC 60068-2-6 Yes Shock testing • tested according to IEC 60068-2-7 • tested according to IEC 60068-2-7 Yes Configuration • Yes Programming • Yes - LAD Yes - FBD Yes - SCL Yes Know-how protection Yes • User program protection/password protection Yes • Block protection Yes • Block protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes	Relative humidity	
• Vibration resistance during operation acc. to IEC 60068-2-6 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail • Operation, tested according to IEC 60068-2-6 Yes Shock testing • tested according to IEC 60068-2-27 • tested according to IEC 60068-2-27 Yes Configuration • Yes Programming • Programming language - LAD Yes - FBD Yes - SCL Yes Know-how protection Yes • Opp rediction /password protection Yes • Opp rediction level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes	Operation, max.	95 %; no condensation
60068-2-6 Yes Shock testing - • tested according to IEC 60068-2-27 Yes Configuration Programming - Programming language - - LAD Yes - FBD Yes - SCL Yes Know-how protection Yes • User program protection/password protection Yes • Block protection Yes • Depresention Yes • Depresention Yes • Stock testing Yes • Stock Yes • Protection Yes • Depresention Yes • Protection Yes • Protection Yes • Protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes	Vibrations	
Shock testing • tested according to IEC 60068-2-27 Yes Configuration Programming Programming language Yes LAD Yes FBD Yes SCL Yes Know-how protection Yes • User program protection/password protection Yes • Block protection Yes • Block protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes		2 g (m/s ²) wall mounting, 1 g (m/s ²) DIN rail
• tested according to IEC 60068-2-27 Yes Configuration Programming Programming language - LAD Yes - FBD Yes - SCL Yes Mow-how protection Yes • User program protection/password protection Yes • Block protection Yes • Block protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes	 Operation, tested according to IEC 60068-2-6 	Yes
Configuration Programming Programming language - LAD Yes - FBD Yes - SCL Yes Know-how protection Yes • User program protection/password protection Yes • Copy protection Yes • Block protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes	Shock testing	
Programming Programming language - LAD Yes - FBD Yes - SCL Yes Know-how protection Yes • User program protection/password protection Yes • Copy protection Yes • Block protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes	 tested according to IEC 60068-2-27 	Yes
Programming Programming language - LAD Yes - FBD Yes - SCL Yes Know-how protection Yes • User program protection/password protection Yes • Copy protection Yes • Block protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes	Configuration	
Programming language- LADYes- FBDYes- SCLYesMow-how protectionYes• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Block protectionYes• Protection level: Write protectionYes• Protection level: Write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes		
- LADYes- FBDYes- SCLYesKnow-how protectionYes6 User program protection/password protectionYes6 Copy protectionYes8 Block protectionYesAccess protectionYesProtection level: Write protectionYes9 Protection level: Read/write protectionYes9 Protection level: Complete protectionYes9 Protection level: Complete protectionYes		
FBDYes SCLYesKnow-how protectionYes• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Block protectionYes• Protection level: Write protectionYes• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYes		Yes
Know-how protection • User program protection/password protection • Copy protection • Copy protection • Block protection Yes Access protection • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Complete protection Yes	— FBD	Yes
• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Access protectionYes• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes	— SCL	Yes
• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Access protectionYes• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes	Know-how protection	
• Block protection Yes Access protection • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Complete protection Yes	User program protection/password protection	Yes
• Block protection Yes Access protection • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Complete protection Yes	Copy protection	Yes
Protection level: Write protection Yes Protection level: Read/write protection Yes Protection level: Complete protection Yes		Yes
Protection level: Read/write protection Yes Protection level: Complete protection Yes	Access protection	
Protection level: Read/write protection Yes Protection level: Complete protection Yes	Protection level: Write protection	Yes
Protection level: Complete protection Yes		Yes
		Yes
o you and monitoring	Cycle time monitoring	

• adjustable	Yes	
Dimensions		
Width	130 mm	
Height	100 mm	
Depth	75 mm	
Weights		
Weight, approx.	585 g	
last modified:	12/16/2020 🖸	