SIEMENS

Data sheet

6ES7288-1SR20-0AA1

	SIMATIC S7-200 SMART, CPU SR20, CPU, AC/DC/relay, onboard I/O: 12 DI 24 V DC; 8 DQ relay 2A; power supply: AC 85 - 264 V AC at 47-63 Hz, 77 to 138 V DC program/data memory 20 KB
General information	
Product type designation	CPU SR20 AC/DC/Relay
Engineering with	
 Programming package 	STEP 7 Micro/WIN SMART
Installation type/mounting	
Rail mounting	Yes; Standard - DIN rail
Supply voltage	
permissible range, lower limit (DC)	77 V
permissible range, upper limit (DC)	138 V
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)	170 mA; at 240 V AC
Current consumption, max.	290 mA; At 120 V AC
Inrush current, max.	9.3 A; at 264 V
Output current	
Current output, max.	300 mA; 24 V DC Sensor Power
for backplane bus (5 V DC), max.	1.4 A; max. 5 V DC for EM bus
Power loss	
Power loss, max.	14 W
Memory	
Type of memory	DDR
Flash	Yes
RAM	Yes
Memory available for user data	8 kbyte
Memory size	12 kbyte; Program memory
Micro Memory Card	Yes; microSDHC Card (optional)
Backup	
• present	Yes; Maintenance free, RTC requires 7 days.
CPU processing times	
for bit operations, typ.	150 ns; / instruction
for word operations, typ.	1.2 µs; / instruction
for floating point arithmetic, typ.	3.6 μs; / instruction
Address area	
I/O address area	
Inputs	144 byte; 256 bit of digital inputs & 56 words of analog inputs
Outputs	144 byte; 256 bit of digital outputs & 56 words of analog outputs
Time of day	
Clock	
• Type	Hardware clock, no battery backup
Hardware clock (real-time)	Yes
Backup time	7 d
Deviation per day, max.	120 s; within 120s/month at 25 °C
Digital inputs	

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Number of digital inputs	12
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.	12
Input voltage	
 Type of input voltage 	DC
Rated value (DC)	24 V
 for signal "0" 	5 V DC at 1 mA
● for signal "1"	15 V DC at 2.5 mA
Input current	
 for signal "0", max. (permissible quiescent current) 	1 mA
 for signal "1", typ. 	4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	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 $% \left(1,2,2,3,2,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,$
— 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; 6 Single phase: 4 HSCs at 200 kHz; 2 HSCs at 30 kHz 4 A/B phase: 2 HSCs at 100 kHz; 2 HSCs at 20 kHz
Cable length	
• shielded, max.	500 m; 50 m for technological functions
• unshielded, max.	300 m; for technological functions: No
Digital outputs	
Number of digital outputs	8; Relays
Switching capacity of the outputs	-,
• with resistive load, max.	2 A
• on lamp load, max.	30 W; 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	10 mg, max.
of the pulse outputs, with resistive load, max.	1 Hz
	I HZ
Relay outputs	
Number of relay outputs	8
Cable length	
• shielded, max.	500 m
• unshielded, max.	150 m
Interfaces	
Number of industrial Ethernet interfaces	1
Number of RS 485 interfaces 1. Interface	1
Interface type	PROFINET
Isolated	Yes; Transformer isolated, 1,500V AC
automatic detection of transmission rate	Yes; 10/100 Mbit/s
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
RJ 45 (Ethernet)	Yes
Protocols	
PROFINET IO Controller	Yes; Since V2.4
PROFINET IO Device	Yes; I-Device since V2.5
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
— Number of connectable IO Devices, max.	8
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— Updating time	4 ms; 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.
Address area	
— Inputs, max.	128 byte; Per device
— Outputs, max.	128 byte; Per device
2. Interface	
Interface type	RS 485 (max. 187.5 kbps)
Interface types	
• RS 485	Yes
PROFIBUS DP master	
Services	
— S7 communication	Yes
Protocols	
Supports protocol for PROFINET IO	Yes; RT Controller (since FW V2.4) & I-Device (since FW V2.5)
PROFIBUS	Yes; Via CM DP module
Protocols (Ethernet)	
• TCP/IP	Yes
communication functions / header	
S7 communication	
supported	Yes
• as server	Yes
as client	Yes
Test commissioning functions	
Forcing	
Forcing	Yes
Integrated Functions	
PID controller	Yes; PID closed-loop control function: Continuous controller outputs, binary controller outputs, automatic/manual mode, max. 8 loops
Number of pulse outputs	3
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 	
root voltage at all alconarge	8 kV
Test voltage at contact discharge	8 kV 4 kV
	4 kV
— Test voltage at contact discharge	4 kV
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz,
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz,
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 Interference immunity to cable-borne interference Interference immunity on supply lines acc. to IEC 61000- 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3)
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance induce Interference immunity against high frequency current feed 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6)
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6)
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against conducted variable disturbance indu Interference immunity against conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas.
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Emission of conducted and non-conducted interference Interference emission via line/AC current cables 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas.
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance induced acc. to IEC 61000-4-4 Interference immunity against conducted variable disturbance induced acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Emission of conducted and non-conducted interference Interference emission via line/AC current cables 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas.
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Emission of conducted and non-conducted interference Interference emission via line/AC current cables Standards, approvals, certificates CE mark 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas.
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Emission of conducted and non-conducted interference Interference emission via line/AC current cables Standards, approvals, certificates CE mark Ambient conditions 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas.
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas. Yes
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Emission of conducted and non-conducted interference Interference emission via line/AC current cables Standards, approvals, certificates CE mark Ambient conditions Free fall Fall height, max. 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas. O.3 m; five times, in product package -20 °C
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Emission of conducted and non-conducted interference Interference emission via line/AC current cables	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas. O.3 m; five times, in product package -20 °C 60 °C
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-4 Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Emission of conducted and non-conducted interference Interference emission via line/AC current cables Standards, approvals, certificates CE mark Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas. O.3 m; five times, in product package -20 °C 60 °C 0 °C
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-4 Interference immunity against conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Emission of conducted and non-conducted interference Interference emission via line/AC current cables Standards, approvals, certificates CE mark Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. horizontal installation, min. horizontal installation, max. 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas. O.3 m; five times, in product package -20 °C 60 °C 0 °C 55 °C
 Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 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 conducted variable disturbance indu Interference immunity against conducted variable disturbance indu Interference immunity against high frequency current feed acc. to IEC 61000-4-4 Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Emission of conducted and non-conducted interference Interference emission via line/AC current cables Standards, approvals, certificates CE mark Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. 	4 kV s Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz, 50% ED (to IEC 61000-4-3) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas. EN 61000-6-4, interference emission: Intended for use in industrial areas. O.3 m; five times, in product package -20 °C 60 °C 0 °C

Ambient temperature during storage/transportation		
• min.	-40 °C	
• max.	70 °C	
Air pressure acc. to IEC 60068-2-13		
Storage/transport, min.	660 hPa	
 Storage/transport, max. 	1 080 hPa	
Altitude during operation relating to sea level		
 Installation altitude, min. 	-1 000 m	
 Installation altitude, max. 	2 000 m	
Relative humidity		
 Operation at 25 °C without condensation, max. 	95 %	
configuration / header		
configuration / programming / header		
Programming language		
— LAD	Yes	
— FBD	Yes	
— STL	Yes	
Dimensions		
Width	90 mm	
Height	100 mm	
Depth	81 mm	
Weights		
Weight, approx.	367.3 g	

last modified:

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