## **SIEMENS**

## **Data sheet**

## 6ES7288-1SR30-0AA1

SIMATIC S7-200 SMART, CPU SR30, standard CPU, AC/DC/relay, onboard I/O: 18 DI 24 V DC; 12 DQ relay 2 A; power supply: AC 85 - 264 V AC at 47-63 Hz program/data memory 30 KB

	program/data memory 30 KB		
General information			
Product type designation	CPU SR30 AC/DC/Relay		
Engineering with			
Programming package	STEP 7 Micro/WIN SMART		
Installation type/mounting			
Rail mounting	Yes; Standard - DIN rail		
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			
<ul> <li>permissible range, lower limit</li> </ul>	47 Hz		
<ul> <li>permissible range, upper limit</li> </ul>	63 Hz		
Input current			
Current consumption (rated value)	72 mA; at 240 V AC		
Current consumption, max.	136 mA; At 120 V AC		
Inrush current, max.	8.9 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	12 kbyte		
Memory size	18 kbyte; Program memory		
Micro Memory Card	Yes; microSDHC Card (optional)		
Backup	1 So, militios 2 no sana (opilonal)		
• present	Yes; Maintenance free, RTC requires 7 days.		
CPU processing times	1 So, maintenance in so, rere requires reason		
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	0.0 po, 7 modulom		
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	177 byte, 200 bit of digital outputs a 50 words of allalog outputs		
Clock			
	Hardware clock no hotton chockup		
Type     Hardware clock (real time)	Hardware clock, no battery backup		
Hardware clock (real-time)     Packup time	Yes		
Backup time     Deviation and day, may	7 d		
Deviation per day, max.	120 s; within 120s/month at 25 °C		
Digital inputs	10		
Number of digital inputs	18 6; HSC (High Speed Counting)		
<ul> <li>of which inputs usable for technological functions</li> </ul>			

Course (sink input	Voe
Source/sink input	Yes
Number of simultaneously controllable inputs	
all mounting positions	40
— up to 40 °C, max.	18
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	
<ul> <li>for signal "0", max. (permissible quiescent current)</li> </ul>	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
at "0" to "4" min	0.2 ms
— at "0" to "1", min.	
— at "0" to "1", max.	12.8 ms
for interrupt inputs	Voc
— parameterizable	Yes
for technological functions	V 0 0 in the release 5 1100 110000 110000 11000 110000 110000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 1
— parameterizable	Yes; 6 Single phase: 5 HSCs at 200 kHz; 1 HSCs at 30 kHz 4 A/B phase: 3 HSCs at 100 kHz; 1 HSC at 20 kHz
Cable length	1.000 dt 100 m.E., 1 1100 dt 20 m.E.
• shielded, max.	500 m; 50m shielded for HSC inputs
unshielded, max.  unshielded, max.	300 m; for technological functions: No
Digital outputs	300 III, for technological functions. No
	40. Deleve
Number of digital outputs	12; Relays
Switching capacity of the outputs	0.4
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	40
• "0" to "1", max.	10 ms; max.
• "1" to "0", max.	10 ms; max.
Switching frequency	
of the pulse outputs, with resistive load, max.	1 Hz
Relay outputs	
Number of relay outputs	8
Cable length	
<ul><li>shielded, max.</li></ul>	500 m
unshielded, max.	150 m
Interfaces	
Number of industrial Ethernet interfaces	1
Number of RS 485 interfaces	1
1. Interface	
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 DEVICE  PROFINET IO Controller	1 GO, 1-DOVIGE SHILLE V 2.0
	100 Mbit/s
Transmission rate, max.  Services	100 MINIUS
Services	0
Number of connectable IO Devices, max.  Undering time.	8 4 ms: The minimum value of the undete time also depends on the
— 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	
Status/control	
Status/control variable	Yes
Forcing	
Forcing	Yes
Integrated Functions	
Counter	
Number of counters	6
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
Number of pulse outputs  EMC	3
	3
Interference immunity against discharge of static electricity  • Interference immunity against discharge of static	Yes
Interference immunity against discharge of static electricity  • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2	Yes
Interference immunity against discharge of static electricity  • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge	
Interference immunity against discharge of static electricity  • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge	Yes 8 kV 4 kV
Interference immunity against discharge of static electricity  • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge  Interference immunity against high-frequency electromagnetic field.	Yes 8 kV 4 kV
Interference immunity against discharge of static electricity  • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge	Yes 8 kV 4 kV
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — Test voltage at contact discharge  Interference immunity against high-frequency electromagnetic field  Interference immunity against high-frequency radiation	Yes  8 kV 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,
Interference immunity against discharge of static electricity  • Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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-	Yes  8 kV 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,
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  Test voltage at air discharge  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	Yes 8 kV 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)
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  Test voltage at air discharge  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	Yes  8 kV  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
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 inductions.	Yes  8 kV  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
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 interference immunity against high frequency current feed	Yes  8 kV  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
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 acc. to IEC 61000-4-6	Yes  8 kV  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
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 interference immunity against high frequency current feed acc. to IEC 61000-4-6  Emission of radio interference acc. to EN 55 011	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)
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 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	Yes  8 kV  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
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 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	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.
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 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	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)
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 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	Yes 8 kV 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.
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 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	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.
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 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	Yes 8 kV 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.
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 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	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.
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 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.	Yes 8 kV 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.
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge — 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 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	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  0.3 m; five times, in product package
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge — 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 61000-4-6  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.	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  0.3 m; five times, in product package  -20 °C
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 induceduceduceduceduceduceduceduceduceduce	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  0.3 m; five times, in product package  -20 °C 60 °C
Interference immunity against discharge of static electricity  Interference immunity against discharge of static electricity acc. to IEC 61000-4-2  — Test voltage at air discharge  — 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 induceduceduceduceduceduceduceduceduceduce	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  0.3 m; five times, in product package  -20 °C

vertical installation, max.	50 °C		
Ambient temperature during storage/transportation			
• min.	-40 °C		
• max.	70 °C		
Air pressure acc. to IEC 60068-2-13			
<ul> <li>Storage/transport, min.</li> </ul>	660 hPa		
Storage/transport, max.	1 080 hPa		
Altitude during operation relating to sea level			
<ul> <li>Installation altitude, min.</li> </ul>	-1 000 m		
Installation altitude, max.	2 000 m		
Relative humidity			
<ul> <li>Operation at 25 °C without condensation, max.</li> </ul>	95 %		
configuration / header			
configuration / programming / header			
Programming language			
— LAD	Yes		
— FBD	Yes		
— STL	Yes		
Dimensions			
Width	110 mm		
Height	100 mm		
Depth	81 mm		
Weights			
Weight, approx.	435 g		
Classifications			
		Version	Classification

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

## Approvals / Certificates

General Product Approval





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