SIEMENS

Data sheet

6ES7288-1ST30-0AA1

SIMATIC S7-200 SMART, CPU ST30, standard CPU, DC/DC/DC, onboard I/O: 18 DI 24 V DC; 12 DQ 24 V DC; power supply: DC 20.4 - 28.8 V DC, program/data memory 30 KB web server

General information		
Product type designation	CPU ST30 DC/DC/DC	
Engineering with		
Programming package	STEP 7 Micro/WIN SMART	
Installation type/mounting		
Rail mounting	Yes; Standard - DIN rail	
Supply voltage		
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, max.	624 mA; 24 V DC	
Inrush current, max.	6 A; at 28.8 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.	12 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		
• 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		
Number of digital inputs	18	
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.	18	
Input voltage		
Type of input voltage	DC	

Data division (DO)	041/
Rated value (DC) for single IIOII	24 V
• for signal "0"	10.0 to 10.3 < 1 V DC; 10.4 to 12.7 < 5 V DC
• for signal "1"	10.0 to 10.3 > 4V; 10.4 to 12.7 > 15V
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
— 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: 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	
• shielded, max.	500 m; 50m shielded for HSC inputs
• unshielded, max.	300 m; for technological functions: No
Digital outputs	
Number of digital outputs	12
of which high-speed outputs	3; 100 kHz Pulse Train Output
Switching capacity of the outputs	
with resistive load, max.	0.5 A
on lamp load, max.	5 W
Output voltage	3 VV
· · · · · · · · · · · · · · · · · · ·	20 V DC
• for signal "1", min.	20 V DC
Output current	
for signal "1" rated value	0.5 A
for signal "0" residual current, max.	10 μA
Output delay with resistive load	
• "0" to "1", max.	3 $\mu s;$ of the standard outputs, max. 3 $\mu s;$ of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs
• "1" to "0", max.	200 $\mu s;$ of the standard outputs, max. 200 $\mu s;$ of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs
Switching frequency	
of the pulse outputs, with resistive load, max.	100 kHz
Relay outputs	
 Number of relay outputs 	0
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 Controller	
Transmission rate, max.	
· · · · · · · · · · · · · · · · · · ·	100 Mbit/s
Services	
Services — Number of connectable IO Devices, may	100 Mbit/s
Services — Number of connectable IO Devices, max. — Updating time	

lanuta marr	139 buto: Par device		
— Inputs, max.	128 byte; Per device		
— Outputs, max.	128 byte; Per device		
2. Interface	DC 405 (may 107 5 khns)		
Interface type	RS 485 (max. 187.5 kbps)		
Interface types • RS 485	Yes		
RS 485 PROFIBUS DP master	1 C3		
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		
North an effective autout	controller outputs, automatic/manual mode, max. 8 loops		
Number of pulse outputs	3		
EMC			
Interference immunity expired discharge of static at a trial			
Interference immunity against discharge of static electricity	Voc		
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	Yes 8 kV		
 Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 			
Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 — Test voltage at air discharge	8 kV 4 kV		
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	8 kV 4 kV is 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 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	8 kV 4 kV Is		
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	8 kV 4 kV Is 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 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-	8 kV 4 kV is 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 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-	8 kV 4 kV Is 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 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	8 kV 4 kV 4 kV Is 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 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 indu Interference immunity against high frequency current feed	8 kV 4 kV 4 kV Is 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 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 indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6	8 kV 4 kV 4 kV Is 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 Icced by high-frequency fields		
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 indu Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011	8 kV 4 kV Is 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 Iced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6)		
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 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	8 kV 4 kV 4 kV Is 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 Icced by high-frequency fields		
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 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	8 kV 4 kV ls 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 loced 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 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 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	8 kV 4 kV Is 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 Iced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6)		
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 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	8 kV 4 kV 4 kV Is 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 Iced 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 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 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	8 kV 4 kV ls 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 loced 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 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 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	8 kV 4 kV 4 kV Is 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 Iced 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 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 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	8 kV 4 kV Is 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 loced 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		
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 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.	8 kV 4 kV 4 kV Is 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 Iced 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 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 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 	8 kV 4 kV Is 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 Icced 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		
 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 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. 	8 kV 4 kV Is 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 Icced 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 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 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. max.	8 kV 4 kV Is 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 Icced 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		
 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 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. 	8 kV 4 kV Is 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 Icced 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 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 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. max. horizontal installation, min.	8 kV 4 kV is 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 icced 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 -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			
 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	110 mm		
Height	100 mm		
Depth	81 mm		
Weights			
Weight, approx.	375 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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