SIEMENS

Data sheet

6ES7288-1ST40-0AA0

*** spare part *** SIMATIC S7-200 SMART, CPU ST40, CPU, DC/DC/DC, onboard I/O: 24 DI 24 V DC; 16 DO 24 V DC; power supply: DC 20.4-28.8V DC, program/data memory 40 KB

	programmada memory 40 KB
General information	
Product type designation	CPU ST40 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.	680 mA; 24 V DC
Inrush current, max.	11.7 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.	18 W
Memory	
Type of memory	DDR
Flash	Yes
RAM	Yes
Memory available for user data	16 kbyte
Memory size	24 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	24; Integrated
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.	24
Input voltage	
Type of input voltage	DC
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• Rated value (DC)	24 V
• for signal "0"	10.0 to 10.3 < 1 V DC; 10.4 to 12.7 < 5 V DC
• for signal "1"	I0.0 to I0.3 > 4V; I0.4 to I2.7 > 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: 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	1,000 at 100 til 1,1 = 1,000 at =0 til 1
• shielded, max.	500 m; 50m shielded for HSC inputs
• unshielded, max.	300 m; for technological functions: No
Digital outputs	
Number of digital outputs	16; Transistor
of which high-speed outputs	3; 100 kHz Pulse Train Output
Short-circuit protection	No
Switching capacity of the outputs	
with resistive load, max.	0.5 A
• on lamp load, max.	5 W
Output voltage	
• for signal "1", min.	20 V DC
Output current	
• for signal "1" rated value	0.5 A
• for signal "0" residual current, max.	10 μΑ
Output delay with resistive load	10 p. 1
• "0" to "1", max.	3 μs ; of the standard outputs, max. 3 μs ; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs
• "1" to "0", max.	200 μs ; of the standard outputs, max. 200 μs ; 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
Cable length	
• shielded, max.	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 Controller PROFINET IO Device	Yes; I-Device since V2.5
PROFINET IO Device PROFINET IO Controller	150, 1 501100 011100 12.0
Transmission rate, max.	100 Mbit/s
Services	100 Millio
	Q.
Number of connectable IO Devices, max.	8

— 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)	100, 110 011 21 110000
• TCP/IP	Yes
communication functions / header	
S7 communication	
	Yes
supportedas server	Yes
as server as client	Yes
	165
Test commissioning functions	
Forcing	V
• 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
EMC	
Interference immunity against discharge of static electricity	
- Interference immunity against discharge of static	
Interference immunity against discharge of static electricity acc. to IEC 61000 4.2	Yes
electricity acc. to IEC 61000-4-2	
electricity acc. to IEC 61000-4-2 — Test voltage at air discharge	8 kV
electricity acc. to IEC 61000-4-2 — Test voltage at air discharge — Test voltage at contact discharge	8 kV 4 kV
electricity acc. to IEC 61000-4-2 — Test voltage at air discharge — Test voltage at contact discharge Interference immunity against high-frequency electromagnetic field	8 kV 4 kV Is
electricity acc. to IEC 61000-4-2 — Test voltage at air discharge — Test voltage at contact discharge	8 kV 4 kV
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,
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 Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz,
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, 50% ED (to IEC 61000-4-3)
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 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
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 industriance industriance.	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
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 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 ced by high-frequency fields
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 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 ced by high-frequency fields
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 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 ced by high-frequency fields
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 ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6)
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 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 ced by high-frequency fields Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6)
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 SS 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.
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 SS 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.
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 Degree and class of protection	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 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.
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 Degree and class of protection IP degree of protection	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 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.
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 Degree and class of protection IP degree of protection Standards, approvals, certificates CE mark	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 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.
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 Degree and class of protection IP degree of protection Standards, approvals, certificates	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 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.
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 Degree and class of protection IP degree of protection 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 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. IP20 Yes
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 Degree and class of protection IP degree of protection Standards, approvals, certificates CE mark Ambient conditions Free fall • Fall height, 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 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.
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 Degree and class of protection IP degree of protection 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 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. IP20 Yes
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 Degree and class of protection IP degree of protection 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 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. IP20 Yes

	-01	4.4	07.04.00.07
		Version	Classification
Classifications			
Weight, approx.	410.3 g		
Weights			
Depth	81 mm		
Height	100 mm		
Width	125 mm		
Dimensions			
— STL	Yes		
— FBD	Yes		
— LAD	Yes		
Programming language			
configuration / programming / header			
configuration / header			
• Operation at 25 °C without condensation, max.	95 %		
Relative humidity			
Installation altitude, max.	2 000 m		
Installation altitude, min.	-1 000 m		
Altitude during operation relating to sea level			
Storage/transport, max.	1 080 hPa		
Storage/transport, min.	660 hPa		
Air pressure acc. to IEC 60068-2-13			
• max.	70 °C		
• min.	-40 °C		
Ambient temperature during storage/transportation	40 0		
vertical installation, max.	45 °C		
vertical installation, min.	0 °C		
 horizontal installation, max. 	55 °C		

	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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