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

	program/data 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	. 33, milotopho out a (optional)
• present	Yes; Maintenance free, RTC requires 7 days.
CPU processing times	. 33, maintenance nos, 1210 requires 1 days.
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	ο.ο μο, <i>τ</i> πιου α συστ
I/O address area	
	144 byte: 256 bit of digital inpute & 56 words of analog inpute
InputsOutputs	144 byte; 256 bit of digital inputs & 56 words of analog inputs 144 byte; 256 bit of digital outputs & 56 words of analog outputs
	177 byte, 250 bit of digital outputs a 50 words of affairing outputs
Time of day	
Clock	Hardware clock no hattery backup
Type Hardware clock (real time)	Hardware clock, no battery backup
Hardware clock (real-time) Packup time	Yes
Backup time Deviation per day, may	7 d
Deviation per day, max. Digital inputs	120 s; within 120s/month at 25 °C
Digital inputs	24. Integrated
Number of digital inputs	24; Integrated
of which inputs usable for technological functions Course (sink input)	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

24 V
I0.0 to I0.3 < 1 V DC; I0.4 to I2.7 < 5 V DC
10.0 to 10.3 > 4V; 10.4 to 12.7 > 15V
1 mA
4 mA
Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four
0.2 ms
12.8 ms
Yes
V 00' L 1 41100 1000 III 01100 100 III 44/B L 0
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
500 m; 50m shielded for HSC inputs
300 m; for technological functions: No
16; Transistor
3; 100 kHz Pulse Train Output
No
0.5 A
5 W
20 V DC
0.5 A
10 μΑ
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
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
100 kHz
0
500 m
150 m
1
1
PROFINET
Yes; Transformer isolated, 1,500V AC
Yes; 10/100 Mbit/s
Yes; 10/100 Mbit/s Yes
Yes
Yes
Yes Yes
Yes Yes
Yes Yes
Yes Yes Yes; Since V2.4
Yes Yes Yes; Since V2.4
Yes Yes Yes; Since V2.4 Yes; I-Device since V2.5

— 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	and the quantity of configurou door data.
— Inputs, max.	128 byte; Per device
— Outputs, max.	128 byte; Per device
2. Interface	120 59.6, 1 61 464166
	DS 495 (may 1975 khas)
Interface type	RS 485 (max. 187.5 kbps)
Interface types	Van
• RS 485	Yes
PROFIBUS DP master	
Services	v
— 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 • 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 Test voltage at air discharge Test voltage at contact discharge 	8 kV 4 kV
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 acc. to IEC 61000-4-3	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 acc. to IEC 61000-4-3 Interference immunity to cable-borne interference	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 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	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
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 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 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 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 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 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 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 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 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 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 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 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)
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 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)
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 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.
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 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.
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 Degree and class of protection IP degree of protection	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 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 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 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 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 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	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 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 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. IP20 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 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 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 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 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 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 min.	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. IP20 Yes 0.3 m; five times, in product package 0 °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 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 min. max.	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. IP20 Yes 0.3 m; five times, in product package 0 °C 55 °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 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 min.	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. IP20 Yes 0.3 m; five times, in product package 0 °C

 vertical installation, min. 	0 °C
 vertical installation, max. 	45 °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	125 mm
Height	100 mm
Depth	81 mm
Weights	
vveignts	
Weight, approx.	410.3 g

last modified: 3/12/2024 🖸