SIEMENS

Data sheet

6ES7288-1ST40-0AA1

	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 - 28.8 V DC, program/data memory 40 KB web server support	
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		
• Туре	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	

Subject to change without notice © Copyright Siemens

 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"	10.0 to 10.3 > 4V: 10.4 to 12.7 > 15V		
• 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	groups of four		
— at "0" to "1" min	0.2 ms		
— at "0" to "1" max	12.8 ms		
for interrupt inpute	12.0 113		
narometerizable	Voc		
- parameterizable	165		
— parameterizable	Yes; 6 Single phase: 4 HSUs at 200 kHz; 2 HSUs at 30 kHz 4 A/B phase: 2 HSUs at 100 kHz; 2 HSUs at 20 kHz		
Cable length			
e shielded may	500 m; 50 m for technological functions		
• unchielded may	200 m; for technological functions: No		
• unsnielded, max.	Sub III, for technological functions. No		
Number of digital outputs	16; Transistor		
 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			
 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		
V			
Output delay with resistive load			
Output delay with resistive load • "0" to "1", max.	3 µs; of the standard outputs, max. 3 µs; of the pulse outputs, max. (Q a.0 to Q		
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		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max.	3 μ s; of the standard outputs, max. 3 μ s; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μ s 200 μ s; of the standard outputs, max. 200 μ s; of the pulse outputs, max. (Q a.0		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max.	3 μ s; of the standard outputs, max. 3 μ s; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μ s 200 μ s; of the standard outputs, max. 200 μ s; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μ s		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency	3 μ s; of the standard outputs, max. 3 μ s; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μ s 200 μ s; of the standard outputs, max. 200 μ s; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μ s		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max.	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.0 to Q a.3) 50 μs 100 kHz		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max.	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max.	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. Interfaces	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. Number of industrial Ethernet interfaces	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m		
Output delay with resistive load "0" to "1", max. "1" to "0", max. Switching frequency of the pulse outputs, with resistive load, max. Relay outputs Number of relay outputs Cable length shielded, max. unshielded, max. Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces 	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces 1. Interface	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 1		
Output delay with resistive load "0" to "1", max. "1" to "0", max. Switching frequency of the pulse outputs, with resistive load, max. Relay outputs Number of relay outputs Cable length shielded, max. unshielded, max. Interfaces Number of RS 485 interfaces 	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 1 1		
Output delay with resistive load "0" to "1", max. "1" to "0", max. Switching frequency of the pulse outputs, with resistive load, max. Relay outputs Number of relay outputs Cable length shielded, max. unshielded, max. Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Interface type Interface type 	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 1 1 1 PROFINET		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. • Number of industrial Ethernet interfaces Number of RS 485 interfaces 1. Interface Interface type Isolated	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 1 1 1 PROFINET Yes; Transformer isolated, 1,500V AC		
Output delay with resistive load "0" to "1", max. "1" to "0", max. Switching frequency of the pulse outputs, with resistive load, max. Relay outputs Number of relay outputs Cable length shielded, max. unshielded, max. Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Interface type Isolated automatic detection of transmission rate 	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 1 1 1 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s		
Output delay with resistive load "0" to "1", max. "1" to "0", max. Switching frequency of the pulse outputs, with resistive load, max. Relay outputs Number of relay outputs Cable length shielded, max. unshielded, max. Interfaces Number of Industrial Ethernet interfaces Number of RS 485 interfaces Interface type Isolated automatic detection of transmission rate Autonegotiation 	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 1 1 1 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s Yes		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. • unshielded, max. • unshielded, max. Interfaces Number of Industrial Ethernet interfaces Number of RS 485 interfaces 1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 1 1 1 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s Yes		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. • unshielded, max. • unshielded, max. Interfaces Number of RS 485 interfaces 1. Interface Interface type Isolated automatic detection of transmission rate Autoregotiation Autocrossing Interface types	3 µs; of the standard outputs, max. 3 µs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 µs 200 µs; of the standard outputs, max. 200 µs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 µs 100 kHz 0 500 m 150 m 1 1 1 9 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s Yes		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. • unshielded, max. Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces I. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet)	3 µs; of the standard outputs, max. 3 µs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 µs 200 µs; of the standard outputs, max. 200 µs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 µs 100 kHz 0 500 m 150 m 150 m 1 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s Yes Yes		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. • unshielded, max. • Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Interface type Isolated automatic detection of transmission rate Autocrossing Interface types • RJ 45 (Ethernet) Protocols	3 µs; of the standard outputs, max. 3 µs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 µs 200 µs; of the standard outputs, max. 200 µs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 µs 100 kHz 0 500 m 150 m 150 m 1 1 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s Yes Yes		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. • unshielded, max. • unshielded, max. Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces 1. Interface Interface type Isolated automatic detection of transmission rate Autocrossing Interface types • RJ 45 (Ethernet) Protocols • PROFINET IO Controller	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 150 m 1 1 1 1 9 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s Yes Yes		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. • unshielded, max. Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces 1. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) Protocols • PROFINET IO Controller • PROFINET IO Device	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 150 m 1 1 1 1 1 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s Yes Yes Yes		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. • unshielded, max. Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) Protocols • PROFINET IO Controller • PROFINET IO Controller PROFINET IO Controller	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 150 m 1 1 1 1 9 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes Yes; Since V2.4 Yes; 1-Device since V2.5		
Output delay with resistive load "0" to "1", max. "1" to "0", max. Switching frequency of the pulse outputs, with resistive load, max. Relay outputs Number of relay outputs Cable length shielded, max. unshielded, max. Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Interface type Isolated automatic detection of transmission rate Autocrossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller PROFINET IO Controller Transmission rate, max. 	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 150 m 1 1 1 1 9 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes 100 kHz		
Output delay with resistive load "0" to "1", max. "1" to "0", max. Switching frequency of the pulse outputs, with resistive load, max. Relay outputs Number of relay outputs Cable length shielded, max. unshielded, max. Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Interface type Isolated automatic detection of transmission rate Autorossing Interface types RJ 45 (Ethernet) Protocols PROFINET IO Controller PROFINET IO Controller Transmission rate, max. 	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 150 m 10 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes In Device since V2.4 Yes; I-Device since V2.5		
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. Switching frequency • of the pulse outputs, with resistive load, max. Relay outputs • Number of relay outputs Cable length • shielded, max. • unshielded, max. • unshielded, max. Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces <u>1. Interface</u> Interface Interface type Isolated automatic detection of transmission rate Autorogotiation Autocrossing Interface types • RJ 45 (Ethernet) Protocols • PROFINET IO Controller • PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max.	3 μs; of the standard outputs, max. 3 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 1 μs 200 μs; of the standard outputs, max. 200 μs; of the pulse outputs, max. (Q a.0 to Q a.3) 50 μs 100 kHz 0 500 m 150 m 1 1 1 1 1 PROFINET Yes; Transformer isolated, 1,500V AC Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes Since V2.4 Yes; I-Device since V2.5		

Subject to change without notice © Copyright Siemens

	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		
Number of pulse outputs	controller outputs, automatic/manual mode, max. 8 loops		
Retential congration	3		
Potential separation			
hetween the channels in groups of	1		
Potential separation digital outputs			
between the channels	No		
between the channels in groups of	2		
EMC	-		
Interference immunity against discharge of static electricity			
Interference immunity against discharge of static	Yes		
electricity acc. to IEC 61000-4-2			
 — Test voltage at air discharge 	8 kV		
 Test voltage at contact discharge 	4 kV		
Interference immunity against high-frequency electromagnetic fields	3		
 Interference immunity against high-frequency radiation 	Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz,		
acc. to IEC 61000-4-3	50% ED (10 IEC 6 1000-4-3)		
a laterference immunity to cable-borne interference			
 Interference inimunity on supply lines acc. to IEC 61000- 4-4 	1 CO, 2 KV acc. LO IEC 01000-4-4, DUISL		
 Interference immunity on signal cables acc. to IEC 61000- 	Yes; ±2 kV acc. to IEC 61000-4-4, Burst		
4-4			
Interference immunity against conducted variable disturbance induc	ced by high-frequency fields		
Interference immunity against high frequency current feed acc. to IEC 61000-4-6	Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6)		
Emission of radio interference acc. to EN 55 011			
Limit class A, for use in industrial areas	Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas.		
Emission of conducted and non-conducted interference			
Interterence emission via line/AC current cables	EN 61000-6-4, interference emission: Intended for use in industrial areas.		
Standards, approvals, certificates			
CE mark	Yes		

Ambient conditions		
Free fall		
 Fall height, max. 	0.3 m; five times, in product package	
Ambient temperature during operation		
• min.	-20 °C	
• max.	60 °C	
 horizontal installation, min. 	-20 °C	
 horizontal installation, max. 	60 °C	
 vertical installation, min. 	-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	125 mm	
Height	100 mm	
Depth	81 mm	
Weights		
Weight, approx.	410.3 g	
Classifications		

	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



last modified:

5/20/2025