Data sheet

 *** Spare part *** SIMATIC S7-200, CPU 224 Compact unit, DC power supply 14 DI DC/10 DO DC, 8/12 KB progr./8 KB data, PROFIBUS DP expandable



Figure similar

Supply voltage					
Rated value (DC)					
• 24 V DC	Yes				
Load voltage L+					
 Rated value (DC) 	24 V				
 permissible range, lower limit (DC) 	20.4 V				
 permissible range, upper limit (DC) 	28.8 V				
Input current					
Inrush current, max.	12 A; at 28.8 V				
from supply voltage L+, max.	700 mA; 110 mA to 700 mA, output current for expansion modules (5 V DC) 660 mA				
Encoder supply					
24 V encoder supply					
• 24 V	Yes; permissible range: 15.4 to 28.8 V				
 Short-circuit protection 	Yes; electronic at 280 mA				
 Output current, max. 	280 mA				
Power loss					
Power loss, typ.	7 W				
Memory					
Number of memory modules (optional)	1; pluggable memory module, content identical with integral EEPROM; can additionally store recipes, data logs and other files				
Work memory					
integrated (for program)	12 kbyte; 8 KB with active run-time edit				
integrated (for data)	8 kbyte				
Backup					
• present	Yes; Program: Entire program maintenance-free on integral EEPROM, programmable via CPU; data: Entire DB 1 loaded from PG/PC maintenance-free on integral EEPROM, current values of DB 1 in RAM, retentive memory bits, timers, counters, etc. maintenance-free via high-performance capacitor; optional battery for long-term buffering				
Battery					
Backup battery					
Backup time, max.	100 h; (min. 70 h at 40 °C); 200 days (typ.) with optional battery module				
CPU processing times					
for bit operations, max.	0.22 μs				
Counters, timers and their retentivity					
S7 counter					
• Number	256				
Retentivity					
— adjustable	Yes; via high-performance capacitor or battery				
Counting range					

— lower limit	0	
— upper limit S7 times	32 767	
Number	256	
	200	
Retentivity	Voca via high performance conseiter or betten	
— adjustable	Yes; via high-performance capacitor or battery	
Time range	4	
— lower limit	1 ms	
— upper limit	54 min; 4 timers: 1 ms to 30 s; 16 timers: 10 ms to 5 min; 236 timers: 100 ms to 54 min	
Data areas and their retentivity		
Flag		
Size, max.	32 byte	
Retentivity available	Yes; M 0.0 to M 31.7	
of which retentive with battery	0 to 255, via high-performance capacitor or battery, adjustable	
of which retentive without battery	0 to 112 in EEPROM, adjustable	
Hardware configuration		
Number of expansion units, max.	7; Only expansion modules of the S7-22x series can be used. Due to the	
Number of expansion units, max.	limited output current, the use of expansion modules may be limited.	
connectable programming devices/PCs	SIMATIC PG/PC, standard PC	
Expansion modules		
Analog inputs/outputs, max.	35; max. 28 inputs and 7 outputs (EM) or max. 0 inputs and 14 outputs (EM)	
Digital inputs/outputs, max.	168; max. 94 inputs and 74 outputs (CPU + EM)	
AS-Interface inputs/outputs, max.	62; AS-Interface A/B slaves (CP 243-2)	
Digital inputs		
Number of digital inputs	14	
Source/sink input	Yes; optionally, per group	
Input voltage	res, optionally, per group	
Rated value (DC)	24 V	
• for signal "0"	0 to 5 V	
• for signal "1"	min. 15 V	
Input current		
Input current • for signal "1", typ.	2.5 mA	
Input current • for signal "1", typ. Input delay (for rated value of input voltage)		
Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs	2.5 mA	
Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable	2.5 mA Yes; all	
Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min.	2.5 mA Yes; all 0.2 ms	
Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max.	2.5 mA Yes; all	
Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs	2.5 mA Yes; all 0.2 ms 12.8 ms	
Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable	2.5 mA Yes; all 0.2 ms	
Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions	2.5 mA Yes; all 0.2 ms 12.8 ms Yes; I 0.0 to I 0.3	
Input current ● for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable	2.5 mA Yes; all 0.2 ms 12.8 ms	
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Input current • for signal "1", typ. Input delay (for rated value of input voltage) for standard inputs — parameterizable — at "0" to "1", min. — at "0" to "1", max. for interrupt inputs — parameterizable for technological functions — parameterizable Cable length • shielded, max. • unshielded, max. Digital outputs Number of digital outputs Short-circuit protection Limitation of inductive shutdown voltage to Switching capacity of the outputs • with resistive load, max. • on lamp load, max. Output voltage • for signal "1" rated value • for signal "1" rated value • for signal "0" residual current, max.	Yes; all 0.2 ms 12.8 ms Yes; (E 0.0 to E 1.5) 30 kHz 500 m; Standard input: 500 m, high-speed counters: 50 m 300 m; not for high-speed signals 10; Transistor No; to be provided externally 1 W 0.75 A 5 W 20 V DC	
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Parallel switching of two outputs		
Parallel switching of two outputs	Yes	
for uprating Switching frequency	165	
<u> </u>	20 kHz; 00.0 to 00.1	
of the pulse outputs, with resistive load, max. Total current of the outputs (per group)	20 kHz; Q0.0 to Q0.1	
1 (1 0 1)		
all mounting positions	C A	
— up to 40 °C, max.	6 A	
horizontal installation	0.4	
— up to 55 °C, max.	6 A	
Relay outputs		
Number of relay outputs	0	
Cable length		
• shielded, max.	500 m	
• unshielded, max.	150 m	
Analog inputs		
Number of analog potentiometers	2; Analog potentiometer; resolution 8 bit	
Encoder		
Connectable encoders		
• 2-wire sensor	Yes	
— permissible quiescent current (2-wire sensor), max.	1 mA	
1. Interface		
Interface type	Integrated RS 485 interface	
Protocols		
• MPI	Yes; As MPI slave for data exchange with MPI masters (S7-300/S7-400 CPUs, OPs, TDs, Push Button Panels); S7-200-internal CPU/CPU communication is possible in the MPI network with restrictions; transmission rates: 19.2/187.5 kbit/s	
• PPI	Yes; with PPI protocol for program functions, HMI functions (TD 200, OP), S7-200-internal CPU/CPU communication; transmission rates 9.6/19.2/187.5 kbit/s	
serial data exchange	Yes; As freely programmable interface with interrupt facility for serial data exchange with third-party devices with ASCII protocol transfer rates: 1.2 / 2.4 / 4.8 / 9.6 / 19.2 / 38.4 / 57.6 / 115.2 kbps; the PC/PPI cable can also be used as RS 232/RS 485 converter	
MPI	THE EDELING TOO CONVOINT.	
Transmission rate, min.	19.2 kbit/s	
Transmission rate, max.	187.5 kbit/s	
Integrated Functions		
Counter		
Number of counters	6; High-speed counters (30 kHz each), 32 bit (incl. sign), can be used as up/down counters or for connecting 2 incremental encoders with 2 pulse trains offset by 90° (max. 20 kHz (A/B counters)); parameterizable enable and reset input; interrupt facilities (incl. call of subroutine with any content) when the setpoint is reached; reversal in counting direction, etc.	
 Counting frequency, max. 	30 kHz	
Number of alarm inputs	4; 4 rising edges and/or 4 falling edges	
Number of pulse outputs	2; High-speed outputs, 20 kHz, with interrupt option; pulse-width and frequency modulation option	
Number of pulse outputs Limit frequency (pulse)		
<u> </u>	modulation option	
Limit frequency (pulse)	modulation option	
Limit frequency (pulse) Potential separation	modulation option	
Limit frequency (pulse) Potential separation Potential separation digital inputs	modulation option 20 kHz	
Limit frequency (pulse) Potential separation Potential separation digital inputs • between the channels	modulation option 20 kHz Yes	
Limit frequency (pulse) Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of	modulation option 20 kHz Yes	
Limit frequency (pulse) Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of Potential separation digital outputs	Yes 6 and 8	
Limit frequency (pulse) Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of Potential separation digital outputs • between the channels	Yes 6 and 8 Yes; Optocoupler	
Limit frequency (pulse) Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of Potential separation digital outputs • between the channels • between the channels, in groups of	Yes 6 and 8 Yes; Optocoupler	
Limit frequency (pulse) Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of Permissible potential difference between different circuits	Yes 6 and 8 Yes; Optocoupler 5	
Limit frequency (pulse) Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of Permissible potential difference between different circuits Degree and class of protection	Yes 6 and 8 Yes; Optocoupler 5 500 V DC between 24 V DC and 5 V DC	
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Limit frequency (pulse) Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of Potential separation digital outputs • between the channels • between the channels • between the channels, in groups of Permissible potential difference between different circuits Degree and class of protection IP degree of protection Ambient conditions	Yes 6 and 8 Yes; Optocoupler 5 500 V DC between 24 V DC and 5 V DC	
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 vertical installation, min. 	0 °C
 vertical installation, max. 	45 °C
Air pressure acc. to IEC 60068-2-13	
 permissible range, lower limit 	860 hPa
• permissible range, upper limit	1 080 hPa
Relative humidity	
Operation, min.	5 %
 Operation, max. 	95 %; RH class 2 in accordance with IEC 1131-2
configuration / header	

configuration / programming / header Command set Bit logic instructions, compare instructions, timer instructions, counter instructions, clock instructions, transmissions instructions, table instructions, logic instructions, shift and rotate instructions, conversion instructions, program control instructions, interrupt and communications instructions, logic stack instructions, integer maths, floating-point math instructions, numerical functions • Program processing free cycle (OB 1), interrupt-controller, time-controlled (1 to 255 ms) • Program organization 1 OB, 1 DB, 1 SDB subroutines with/without parameter transfer • Number of subroutines, max. 64 Programming language — LAD Yes — FBD Yes Yes - STL Know-how protection • User program protection/password protection Yes; 3-stage password protection Plug-in I/O terminals Yes

 Plug-in I/O terminals
 Yes

 Dimensions
 Width
 120.5 mm

 Height
 80 mm

 Depth
 62 mm

 Weights

Weight, approx. 360 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

For use in hazardous locations

Maritime application



Miscellaneous

Manufacturer Declaration



<u>FM</u>



Maritime application







NK / Nippon Kaiji Kyokai



CCS (China Classification Society)

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