

SIMATIC S7-200, CPU 224, COMPACT UNIT,  
AC POWER SUPPLY 14 DI DC/10 DO, RELAY,  
8/12 KB CODE/8 KB DATA,  
PROFIBUS DP EXTENDABLE



Supply voltage	
120 V AC	Ja
230 V AC	Ja
Line frequency	
Voedingsspanningsfrequentie / maximaal	63 Hz
Load voltage L+	
Rated value (DC)	24 V
permissible range, lower limit (DC)	5 V
permissible range, upper limit (DC)	30 V
Load voltage L1	
Rated value (AC)	100 V
permissible range, lower limit (AC)	5 V
permissible range, upper limit (AC)	250 V
permissible frequency range, lower limit	47 Hz
permissible frequency range, upper limit	63 Hz
Input current	
Inrush current, max.	20 A
from supply voltage L1, max.	200 mA
Encoder supply	

<b>24 V encoder supply</b>	
<b>24 V</b>	Ja
<b>Short-circuit protection</b>	Ja
<b>Output current, max.</b>	280 mA
<b>Memory</b>	
<b>Number of memory modules (optional)</b>	1
<b>Data and program memory</b>	
<b>Data memory, max.</b>	8 kbyte
<b>Program memory, max.</b>	12 kbyte
<b>Backup</b>	
<b>present</b>	Ja
<b>Battery</b>	
<b>Backup battery</b>	
<b>Backup time, max.</b>	100 h
<b>CPU processing times</b>	
<b>for bit operations, max.</b>	0,22 µs
<b>Counters, timers and their retentivity</b>	
<b>S7 counter</b>	
<b>Number</b>	256
<b>of which retentive with battery</b>	
<b>adjustable</b>	Ja
<b>lower limit</b>	1
<b>upper limit</b>	256
<b>Counting range</b>	
<b>lower limit</b>	0
<b>upper limit</b>	32767
<b>S7 times</b>	
<b>Number</b>	256
<b>of which retentive with battery</b>	
<b>adjustable</b>	Ja
<b>upper limit</b>	64
<b>Time range</b>	
<b>lower limit</b>	1 ms
<b>upper limit</b>	54 min
<b>Data areas and their retentivity</b>	
<b>Flag</b>	
<b>Number, max.</b>	32 byte
<b>Retentivity available</b>	Ja

Hardware configuration	
Expansion devices, max.	7
Expansion modules	
Analog inputs/outputs, max.	35
Digital inputs/outputs, max.	168
AS-Interface inputs/outputs, max.	62
Digital inputs	
Aantal digitale ingangen	14
m/p-reading	Ja
Input voltage	
Ingangsspanning / aan de digitale ingang / bij DC / nominale waarde	24 V
Input current	
Ingangsstroom / aan de digitale ingang / bij signaal <1> / typisch	2,5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
parameterizable	Ja
at "0" to "1", min.	0,2 ms
at "0" to "1", max.	12,8 ms
for interrupt inputs	
parameterizable	Ja
for counter/technological functions	
parameterizable	Ja
Cable length	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	300 m
Digital outputs	
Aantal van de digitale uitgangen	10
Short-circuit protection	Nee
Switching capacity of the outputs	
with resistive load, max.	2 A
on lamp load, max.	200 W
Output current	
Uitgangsstroom / aan de digitale uitgang / bij signaal <1> / nominale waarde	2 A
Reststroom / aan de digitale uitgang / bij signaal <0> / maximaal	0 mA
Output delay with resistive load	

"0" to "1", max.	10 ms
"1" to "0", max.	10 ms
<b>Parallel switching of 2 outputs</b>	
for uprating	Nee
<b>Switching frequency</b>	
of the pulse outputs, with resistive load, max.	1 Hz
<b>Total current of the outputs (per group)</b>	
all mounting positions	
up to 40 °C, max.	10 A
horizontal installation	
up to 55 °C, max.	10 A
<b>Relay outputs</b>	
Max. number of relay outputs, integrated	10
Number of operating cycles, max.	10000000
<b>Cable length</b>	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	150 m
<b>Analog inputs</b>	
Number of analog potentiometers	2
<b>Encoder</b>	
Connectable encoders	
2-wire sensor	Ja
permissible quiescent current (2-wire sensor), max.	1 mA
<b>1. Interface</b>	
Functionality	
MPI	Ja
PPI	Ja
serial data exchange	Ja
<b>MPI</b>	
Transmission rate, min.	19,2 kbit/s
Transmission rate, max.	187,5 kbit/s
<b>Integrated Functions</b>	
Number of counters	6
Counting frequency (counter) max.	30 kHz
Number of alarm inputs	4
<b>Galvanic isolation</b>	
Galvanic isolation digital inputs	
between the channels	Ja

<b>Galvanic isolation digital outputs</b>	
between the channels	Ja
<b>Degree and class of protection</b>	
IP20	Ja
<b>Ambient conditions</b>	
<b>Operating temperature</b>	
Omgevingstemperatuur / bij horizontale inbouwpositie / tijdens bedrijf / minimaal	0 °C
Omgevingstemperatuur / bij horizontale inbouwpositie / tijdens bedrijf / maximaal	55 °C
Omgevingstemperatuur / bij verticale inbouwpositie / tijdens bedrijf / minimaal	0 °C
Omgevingstemperatuur / bij verticale inbouwpositie / tijdens bedrijf / maximaal	45 °C
<b>Air pressure</b>	
Luchtdruk / minimaal	860 hPa
Luchtdruk / maximaal	1080 hPa
<b>Relative humidity</b>	
Relatieve luchtvochtigheid / tijdens de werking / minimaal	5 %
Relatieve luchtvochtigheid / tijdens de werking / maximaal	95 %
<b>Configuration</b>	
<b>Programming</b>	
Number of subroutines, max.	64
<b>Programming language</b>	
LAD	Ja
FBD	Ja
STL	Ja
<b>Know-how protection</b>	
User program protection/password protection	Ja
<b>Aansluitingstechniek</b>	
Plug-in I/O terminals	Ja
<b>Dimensions</b>	
Breedte	120,5 mm
Hoogte	80 mm
Diepte	62 mm
<b>Weights</b>	
Weight, approx.	410 g
Status	21-jul-2014