

SIMATIC S7-200, CPU 224XP COMPACT UNIT,
DC POWER SUPPLY 14 DI DC/10 DO DC,
2 AI, 1 AO 12/16 KB CODE/10 KB DATA,
2 PPI/FREEPORT PORTS



Supply voltage	
24 V DC	Ja
Voedingsspanning / bij DC / nominale waarde / minimaal	20,4 V
Voedingsspanning / bij DC / nominale waarde / maximaal	28,8 V
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
from supply voltage L+, max.	900 mA
Encoder supply	
24 V encoder supply	
24 V	Ja
Short-circuit protection	Ja
Output current, max.	280 mA
Memory	
Number of memory modules (optional)	1

Data and program memory	
Data memory, max.	10 kbyte
Program memory, max.	16 kbyte
Backup	
present	Ja
Battery	
Backup battery	
Backup time, max.	100 h
CPU processing times	
for bit operations, max.	0,22 µs
Counters, timers and their retentivity	
S7 counter	
Number	256
of which retentive with battery	
adjustable	Ja
lower limit	1
upper limit	256
Counting range	
lower limit	0
upper limit	32767
S7 times	
Number	256
of which retentive with battery	
adjustable	Ja
upper limit	64
Time range	
lower limit	1 ms
upper limit	54 min
Data areas and their retentivity	
Flag	
Number, max.	32 byte
Retentivity available	Ja
Hardware configuration	
Expansion devices, max.	7
Expansion modules	
Analog inputs/outputs, max.	38
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.	0,75 A
on lamp load, max.	5 W
Output current	
Uitgangsstroom / aan de digitale uitgang / bij signaal <1> / nominale waarde	750 mA
Reststroom / aan de digitale uitgang / bij signaal <0> / maximaal	10 μ A
Output delay with resistive load	
"0" to "1", max.	15 μ s
"1" to "0", max.	130 μ s
Parallel switching of 2 outputs	
for uprating	Ja
Switching frequency	
of the pulse outputs, with resistive load, max.	100 kHz

Total current of the outputs (per group)	
all mounting positions	
up to 40 °C, max.	3,75 A
horizontal installation	
up to 55 °C, max.	3,75 A
Relay outputs	
Max. number of relay outputs, integrated	0
Cable length	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	150 m
Analog inputs	
Number of analog potentiometers	2
Encoder	
Connectable encoders	
2-wire sensor	Ja
permissible quiescent current (2-wire sensor), max.	1 mA
1. Interface	
Functionality	
MPI	Ja
PPI	Ja
serial data exchange	Ja
MPI	
Transmission rate, min.	19,2 kbit/s
Transmission rate, max.	187,5 kbit/s
2. Interface	
Functionality	
MPI	Ja
PPI	Ja
serial data exchange	Ja
MPI	
Transmission rate, min.	19,2 kbit/s
Transmission rate, max.	187,5 kbit/s
Integrated Functions	
Number of counters	6
Counting frequency (counter) max.	200 kHz
Number of alarm inputs	4
Number of pulse outputs	2
Limit frequency (pulse)	20 kHz

Galvanic isolation	
Galvanic isolation digital inputs	
between the channels	Ja
Galvanic isolation digital outputs	
between the channels	Ja
between the channels, in groups of	5
Degree and class of protection	
IP20	Ja
Ambient conditions	
Operating temperature	
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
Air pressure	
Luchtdruk / minimaal	860 hPa
Luchtdruk / maximaal	1080 hPa
Relative humidity	
Relatieve luchtvochtigheid / tijdens de werking / minimaal	5 %
Relatieve luchtvochtigheid / tijdens de werking / maximaal	95 %
Configuration	
Programming	
Number of subroutines, max.	64
Programming language	
LAD	Ja
FBD	Ja
STL	Ja
Know-how protection	
User program protection/password protection	Ja
Aansluitingstechniek	
Plug-in I/O terminals	Ja
Dimensions	
Breedte	140 mm
Hoogte	80 mm
Diepte	62 mm

Weights

Weight, approx.	390 g
Status	21-jul-2014