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Data sheet 6ES7211-0AA22-0XB0

*** SPARE PART*** SIMATIC S7-200, CPU 221 COMPACT UNIT, DC POWER SUPPLY 6 DI DC/4 DO DC, 4 KB CODE/2 KB DATA,

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.	10 A; at 28.8 V
from supply voltage L+, max.	900 mA; 80 to 900 mA
Encoder supply	
24 V encoder supply	
• 24 V	Yes; permissible range: 15.4 to 28.8 V
• Short-circuit protection	Yes; electronic at 600 mA
• Output current, max.	180 mA
Memory	
Number of memory modules (optional)	1; pluggable memory module, content identical with integral EEPROM
Work memory	
• integrated (for program)	4 kbyte
• integrated (for data)	2 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.	50 h; (min. 8 h at 40 °C); 200 days (typ.) with optional battery module
CPU processing times	
for bit operations, max.	0.37 µs

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Counters, timers and their retentivity	
S7 counter	
• Number	256
of which retentive with battery	
— can be set	Yes; via high-performance capacitor or battery
— lower limit	1
— upper limit	256
Counting range	
— lower limit	0
— upper limit	32 767
S7 times	
• Number	256
of which retentive with battery	
— adjustable	Yes; via high-performance capacitor or battery
— upper limit	65
Time range	
— 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	
• Number, 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	
connectable programming devices/PCs	SIMATIC PG/PC, standard PC
Digital inputs	
Number of digital inputs	6; Integrated
Source/sink input	Yes; optionally, per group
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	0 to 5 V
• for signal "1"	min. 15 V
Input current	
• for signal "1", typ.	4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; all
— at "0" to "1", min.	0.2 ms
— at "0" to "1", max.	12.8 ms

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