MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7288-1SR20-0AA1

S7-200 SMART CPU SR20

Used with the applicable SIMATIC S7-200 SMART configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens technical documentation for 6ES7288-1SR20-0AA1

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Data sheet 6ES7288-1SR20-0AA1

	SIMATIC S7-200 SMART, CPU SR20, CPU, AC/DC/relay, onboard I/O: 12 DI 24 V DC; 8 DQ relay 2A; power supply: AC 85 - 264 V AC at 47-63 Hz, 77 to 138 V DC program/data memory 20 KB
General information	
Product type designation	CPU SR20 AC/DC/Relay
Engineering with	
● Programming package	STEP 7 Micro/WIN SMART
Installation type/mounting	
Rail mounting	Yes; Standard - DIN rail
Supply voltage	
permissible range, lower limit (DC)	77 V
permissible range, upper limit (DC)	138 V
Rated value (AC)	
● 120 V AC	Yes
● 230 V AC	Yes
permissible range, lower limit (AC)	85 V
permissible range, upper limit (AC)	264 V
Line frequency	
● permissible range, lower limit	47 Hz
● permissible range, upper limit	63 Hz
Input current	
Current consumption (rated value)	170 mA; at 240 V AC
Current consumption, max.	290 mA; At 120 V AC
Inrush current, max.	9.3 A; at 264 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.	14 W
Memory	
Type of memory	DDR
Flash	Yes
RAM	Yes
Memory available for user data	8 kbyte
Memory size	12 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	
● Type	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	

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