

APTER POWER PRODUCT MANUAL

6ES7288-1SR20-0AA1

SIMATIC S7-200 SMART CPU SR20

The Siemens 6ES7288-1SR20-0AA1 is a SIMATIC S7-200 SMART SR20 standard CPU with 12 integrated 24 V DC digital inputs, 8 relay outputs, and 20 KB of program/data memory.

It executes the STEP 7 Micro/WIN SMART user program, reads the 12 onboard binary input signals, and commands 8 field outputs for compact machine sequences with a small AC-powered relay I/O count. Its relay channels switch approved AC or DC loads within the published contact limits. The standard CPU exchanges engineering, process, and diagnostic data over Industrial Ethernet/PROFINET and RS485, and can use compatible S7-200 SMART expansion components. It is suited to small packaging and auxiliary machines.

Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

8 relay outputs coordinated by an expandable SMART CPU.

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SCAN FOR PRODUCT & QUOTE

6ES7288-1SR20-0AA1

1. Product Overview and Identity

The Siemens 6ES7288-1SR20-0AA1 is a SIMATIC S7-200 SMART SR20 standard CPU with 12 integrated 24 V DC digital inputs, 8 relay outputs, and 20 KB of program/data memory.

It executes the STEP 7 Micro/WIN SMART user program, reads the 12 onboard binary input signals, and commands 8 field outputs for compact machine sequences with a small AC-powered relay I/O count. Its relay channels switch approved AC or DC loads within the published contact limits. The standard CPU exchanges engineering, process, and diagnostic data over Industrial Ethernet/PROFINET and RS485, and can use compatible S7-200 SMART expansion components. It is suited to small packaging and auxiliary machines.

Model Configuration

Field	Verified information
Complete model	6ES7288-1SR20-0AA1
Manufacturer	Siemens
Product description	SIMATIC S7-200 SMART CPU SR20

Key Features

- Exact Siemens MLFB 6ES7288-1SR20-0AA1
- SIMATIC S7-200 SMART CPU SR20
- 12 DI 24 V DC; 8 relay DQ
- 20 KB program/data memory
- 1 x Industrial Ethernet/PROFINET and 1 x RS485

2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

Parameter	Verified value
Product type	SIMATIC S7-200 SMART CPU SR20
CPU design	Standard expandable CPU
Onboard digital inputs	12 inputs, 24 V DC
Onboard digital outputs	8; Relay, 2 A
Power supply	85 to 264 V AC at 47 to 63 Hz; 77 to 138 V DC
Program/data memory	20 KB
Engineering software	STEP 7 Micro/WIN SMART
Communication	1 x Industrial Ethernet/PROFINET and 1 x RS485
Mounting	Standard DIN rail
Degree of protection	IP20
Ambient operation	-20 to 60 deg C for horizontal installation; follow orientation-specific limits in Siemens data
Device dimensions	90 x 100 x 81 mm (W x H x D)
Approximate device weight	0.3673 kg
Country of origin	China
Lifecycle	Current 0AA1 standard CPU article documented by Siemens; confirm regional ordering status at quotation.

Verification Note

Use the complete 6ES7288-1SR20-0AA1 identifier. Current 0AA1 standard CPU article documented by Siemens; confirm regional ordering status at quotation. Values not published in the cited Siemens sources are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- It executes the STEP 7 Micro/WIN SMART user program, reads the 12 onboard binary input signals, and commands 8 field outputs for compact machine sequences with a small AC-powered relay I/O count. Its relay channels switch approved AC or DC loads within the published contact limits. The standard CPU exchanges engineering, process, and diagnostic data over Industrial Ethernet/PROFINET and RS485, and can use compatible S7-200 SMART expansion components. It is suited to small packaging and auxiliary machines.
- Maintains the documented CPU SR20 role for the complete 6ES7288-1SR20-0AA1 article number.
- Provides a verified basis for wiring, programming, commissioning, diagnostics, and replacement planning.

Application Areas

Application	System role
Machine sequence control	Processes 12 digital inputs and drives 8 relay-controlled field circuits
Mixed AC/DC load panels	Uses isolated relay contacts for approved AC or DC loads
Networked automation	Shares process data and diagnostics through Ethernet/PROFINET or RS485
Expandable equipment	Adds compatible S7-200 SMART I/O when the 20 onboard points are not sufficient

Compatible Components

- S7-200 SMART project configured for CPU SR20 and complete MLFB 6ES7288-1SR20-0AA1
- 24 V DC sensors and field loads matched to the documented input and output circuits
- Industrial Ethernet/PROFINET and RS485 devices defined in the STEP 7 Micro/WIN SMART project
- S7-200 SMART expansion modules, signal boards, memory card, and cabling approved for the exact CPU

Lifecycle Status

Current 0AA1 standard CPU article documented by Siemens; confirm regional ordering status at quotation.

4. Installation Precautions

- Identity: Match the complete 6ES7288-1SR20-0AA1 MLFB, CPU SR20 marking, hardware, and firmware
- Power: Verify 85 to 264 V AC at 47 to 63 Hz; 77 to 138 V DC and isolate all sources before wiring or removal
- I/O: Observe every channel voltage, current, group common, polarity, and protective-device limit
- Project: Back up and match the STEP 7 Micro/WIN SMART configuration, addresses, communications, and retentive data
- Panel: Use DIN-rail mounting, protective earth, segregation, ventilation, and orientation limits from Siemens

STOP - Verify before installation

Use the complete 6ES7288-1SR20-0AA1 identifier. Current 0AA1 standard CPU article documented by Siemens; confirm regional ordering status at quotation. Values not published in the cited Siemens sources are intentionally not inferred.

Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens official technical data sheet for 6ES7288-1SR20-0AA1: <https://support.industry.siemens.com/teddatasheet/?caller=SIO&format=pdf&language=en&mlfbs=6ES7288-1SR20-0AA1>; Siemens S7-200 SMART System Manual: https://support.industry.siemens.com/cs/attachments/109745610/s7-200_SMART_system_manual_en-US.pdf

Apter Power product page

<https://www.apterpower.com/Siemens/6es7288-1sr20-0aa1>

Use Notice

This is an original Apter Power product-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.