

APTER POWER PRODUCT MANUAL

6ES7288-1SR40-0AA1

SIMATIC S7-200 SMART CPU SR40

The Siemens 6ES7288-1SR40-0AA1 is a SIMATIC S7-200 SMART SR40 standard CPU with 24 integrated 24 V DC digital inputs, 16 relay outputs, and 40 KB of program/data memory.

It executes the STEP 7 Micro/WIN SMART user program, reads the 24 onboard binary input signals, and commands 16 field outputs for forty-point onboard control where relay isolation and network diagnostics are required. 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 production cells and material-handling equipment.

Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

16 relay outputs coordinated by an expandable SMART CPU.

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SCAN FOR PRODUCT & QUOTE
6ES7288-1SR40-0AA1

1. Product Overview and Identity

The Siemens 6ES7288-1SR40-0AA1 is a SIMATIC S7-200 SMART SR40 standard CPU with 24 integrated 24 V DC digital inputs, 16 relay outputs, and 40 KB of program/data memory.

It executes the STEP 7 Micro/WIN SMART user program, reads the 24 onboard binary input signals, and commands 16 field outputs for forty-point onboard control where relay isolation and network diagnostics are required. 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 production cells and material-handling equipment.

Model Configuration

Field	Verified information
Complete model	6ES7288-1SR40-0AA1
Manufacturer	Siemens
Product description	SIMATIC S7-200 SMART CPU SR40

Key Features

- Exact Siemens MLFB 6ES7288-1SR40-0AA1
- SIMATIC S7-200 SMART CPU SR40
- 24 DI 24 V DC; 16 relay DQ
- 40 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 SR40
CPU design	Standard expandable CPU
Onboard digital inputs	24 inputs, 24 V DC
Onboard digital outputs	16; Relay, 2 A
Power supply	85 to 264 V AC at 47 to 63 Hz
Program/data memory	40 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	125 x 100 x 81 mm (W x H x D)
Approximate device weight	0.4413 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 6ES7288-1SR40-0AA1 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 24 onboard binary input signals, and commands 16 field outputs for forty-point onboard control where relay isolation and network diagnostics are required. 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 production cells and material-handling equipment.
- Maintains the documented CPU SR40 role for the complete 6ES7288-1SR40-0AA1 article number.
- Provides a verified basis for wiring, programming, commissioning, diagnostics, and replacement planning.

Application Areas

Application	System role
Machine sequence control	Processes 24 digital inputs and drives 16 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 40 onboard points are not sufficient

Compatible Components

- S7-200 SMART project configured for CPU SR40 and complete MLFB 6ES7288-1SR40-0AA1
- 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 6ES7288-1SR40-0AA1 MLFB, CPU SR40 marking, hardware, and firmware
- Power: Verify 85 to 264 V AC at 47 to 63 Hz 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 6ES7288-1SR40-0AA1 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 6ES7288-1SR40-0AA1: <https://support.industry.siemens.com/teddatasheet/?caller=SIO&format=pdf&language=en&mlfbs=6ES7288-1SR40-0AA1>; 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/6es7288-1sr40-0aa1>

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.