APTER POWER PRODUCT MANUAL

6ES7288-1CR30-0AA1

SIMATIC S7-200 SMART CPU CR30s

The Siemens 6ES7288-1CR30-0AA1 is a SIMATIC S7-200 SMART CR30s compact CPU with 18 integrated 24 V DC digital inputs, 12 relay outputs, and 20 KB of program/data memory.

It executes the STEP 7 Micro/WIN SMART user program, reads the 18 onboard binary input signals, and commands 12 field outputs for compact relay logic with thirty onboard I/O points and serial communication. Its relay channels switch approved AC or DC loads within the published contact limits. The compact CRs design uses integrated RS485 communication and fixed onboard I/O. It is suited to small conveyors and machine-sequence control.

Manufacturer	Siemens
Prepared by	Apter Power
Document ID	AP-SIE-10-6ES7288-1CR30-0AA1-PM-R1
Revision	R1
Issue date	2026-08-18

1. Product Overview and Identity

The Siemens 6ES7288-1CR30-0AA1 is a SIMATIC S7-200 SMART CR30s compact CPU with 18 integrated 24 V DC digital inputs, 12 relay outputs, and 20 KB of program/data memory.

It executes the STEP 7 Micro/WIN SMART user program, reads the 18 onboard binary input signals, and commands 12 field outputs for compact relay logic with thirty onboard I/O points and serial communication. Its relay channels switch approved AC or DC loads within the published contact limits. The compact CRs design uses integrated RS485 communication and fixed onboard I/O. It is suited to small conveyors and machine-sequence control.

Model Configuration

Field	Verified information
Complete model	6ES7288-1CR30-0AA1
Manufacturer	Siemens
Product description	SIMATIC S7-200 SMART CPU CR30s

Key Features

- Exact Siemens MLFB 6ES7288-1CR30-0AA1
- SIMATIC S7-200 SMART CPU CR30s
- 18 DI 24 V DC; 12 relay DO
- 20 KB program/data memory
- Integrated RS485 serial interface

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 CR30s
CPU design	Compact serial CPU
Onboard digital inputs	18 inputs, 24 V DC
Onboard digital outputs	12; Relay, 2 A
Power supply	85 to 264 V AC at 47 to 63 Hz
Program/data memory	20 KB
Engineering software	STEP 7 Micro/WIN SMART
Communication	Integrated RS485 serial interface
Mounting	Standard DIN rail
Degree of protection	IP20
Ambient operation	0 to 55 deg C for horizontal installation; 0 to 45 deg C for vertical installation
Device dimensions	110 x 100 x 81 mm (W x H x D)
Approximate device weight	0.424 kg
Country of origin	China
Lifecycle	Current CRs 0AA1 article documented by Siemens; confirm regional ordering status at quotation.

Verification Note

Use the complete 6ES7288-1CR30-0AA1 identifier. Current CRs 0AA1 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 18 onboard binary input signals, and commands 12 field outputs for compact relay logic with thirty onboard I/O points and serial communication. Its relay channels switch approved AC or DC loads within the published contact limits. The compact CRs design uses integrated RS485 communication and fixed onboard I/O. It is suited to small conveyors and machine-sequence control.
- Maintains the documented CPU CR30s role for the complete 6ES7288-1CR30-0AA1 article number.
- Provides a verified basis for wiring, programming, commissioning, diagnostics, and replacement planning.

Application Areas

Application	System role
Standalone machine logic	Controls small conveyors and machine-sequence control with 18 inputs and 12 relay outputs
Contact-based load switching	Commands approved contactors, valves, indicators, and interposing relays
Serial equipment coordination	Uses the integrated RS485 interface for supported device communication
Fixed-I/O control panels	Provides a compact 30-point CPU where onboard I/O meets the design

Compatible Components

- S7-200 SMART project configured for CPU CR30s and complete MLFB 6ES7288-1CR30-0AA1
- 24 V DC sensors wired to the documented onboard digital-input terminals
- AC or DC field loads that stay within the Relay, 2 A channel and group limits
- RS485 devices and serial protocols supported by the verified project and firmware

Lifecycle Status

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

4. Installation Precautions

- Identity: Match the complete 6ES7288-1CR30-0AA1 MLFB, CPU CR30s 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 6ES7288-1CR30-0AA1 identifier. Current CRs 0AA1 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 6ES7288-1CR30-0AA1: https://support.industry.siemens.com/teddatasheet/?caller=SIOS&format=pdf&language=en&mlfbs=6ES7288-1CR30-0AA1; 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/6es7288-1cr30-0aa1

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.