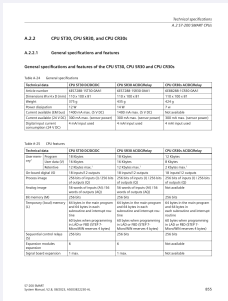


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Siemens 6ES7288-1CR30-0AA1

CPU CR30s Relay Controller



INPUTS	RELAY OUTPUTS	PROGRAM	DISSIPATION
18	12	12 KB	7 W

Siemens 6ES7288-1CR30-0AA1 is the SIMATIC S7-200 SMART CPU CR30s AC/DC/Relay. Eighteen 24 V DC digital inputs and twelve dry-contact relay outputs support a compact hardwired control task. The CPU includes one RS485 port, 12 KB program memory and 8 KB user data memory.

01

VERIFIED PRODUCT PARAMETERS

Power supply range	85 to 264 V AC or 77 to 138 V DC
AC operating frequency	47 to 63 Hz
Digital input count	18; 24 V DC nominal
Digital output count	12 dry-contact relays
Output contact rating	2 A per point maximum
Relay operating delay	10 ms maximum
Program capacity	12 KB
User data capacity	8 KB
Retentive allocation	2 KB maximum
Communication port	One RS485; no Ethernet

Technical values were verified against Siemens S7-200 SMART V2.8, A5E03822230-AL, 08/2023 and the Siemens Industry Mall record for the exact article number.

02 ADDITIONAL TECHNICAL DATA

Freeport transfer rate	1200 to 115200 bit/s
Input event interrupts	4 rising and 4 falling edges
Cyclic interrupts	2; 1 ms resolution
Sensor supply capacity	24 V DC nominal, 300 mA maximum
Power dissipation	7 W

03 SYSTEM ROLE AND APPLICATIONS

The CR30s is a compact serial CPU, not an expandable SR30 station. Its onboard signals and serial protocol must cover the complete application because expansion modules, signal boards and Ethernet are unavailable. The Siemens manual specifies 85 to 264 V AC or 77 to 138 V DC power and a maximum 7 W dissipation.

- Send a production message to a printer: Use the documented transmit instruction to send the required character buffer to a compatible printer. Match its electrical interface and command format, monitor completion and define the response to an unavailable printer before relying on the printed production record.
- Receive an identifier from a reader: Implement the reader protocol using receive conditions and the application program. Validate complete frames and accepted identifiers before allowing the associated operation. A compatible serial cable does not itself supply message parsing or validation logic.
- Acquire values from a serial scale: Exchange the scale protocol through the configured Freeport connection. Parse its reported value and status, then define handling for incomplete, stale or invalid messages. Confirm operation in RUN and the expected recovery after a programming interruption or CPU STOP.

04 OFFICIAL INSTALLATION FACTS

- Isolate the CPU supply and every external load supply; use safeguards independent of the PLC.
- Mount on the documented panel or DIN rail with the required cooling and wiring clearances.
- Use the CR30s X10-X13 diagram and identify 1L, 2L and 3L before connecting relay loads.
- Check channel-specific input filters and the nominal 24 V sensor power budget.

05 OFFICIAL DOCUMENTATION

Siemens S7-200 SMART V2.8, A5E03822230-AL, 08/2023

AMIKON PRODUCT SUPPORT

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