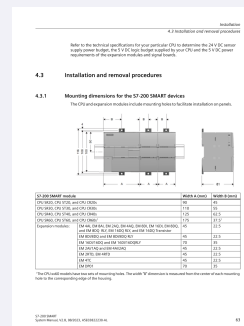


FIELD INSTALLATION QUICK GUIDE

# Installation Instructions

6ES7288-1SR20-0AA1

S7-200 SMART CPU SR20



|          |                                  |
|----------|----------------------------------|
| PRODUCT  | 6ES7288-1SR20-0AA1               |
| FAMILY   | SIMATIC S7-200 SMART             |
| FUNCTION | S7-200 SMART CPU SR20            |
| STATUS   | Verify exact installed equipment |

Prepared by Amikon Limited from Siemens documentation. This guide supplements the complete manufacturer manual and site procedure.

## 01 CONFIRM THE ORDERED CONFIGURATION

|                          |                             |
|--------------------------|-----------------------------|
| Product type designation | CPU SR20 AC/DC/Relay        |
| Programming package      | STEP 7 Micro/WIN SMART      |
| Onboard digital inputs   | 12 x 24 V DC                |
| Onboard digital outputs  | 8 relay outputs, 2 A        |
| AC supply range          | 85 to 264 V AC, 47 to 63 Hz |
| Program memory           | 12 KB                       |

## 02 PREPARATION AND CONNECTION

- Confirm the complete 6ES7288-1SR20-0AA1 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

## OFFICIAL INSTALLATION REFERENCE

### Installation

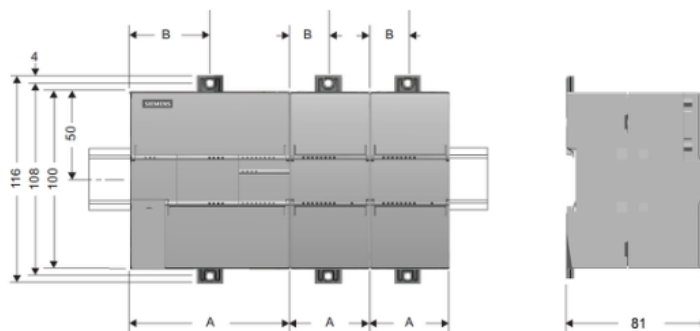
#### 4.3 Installation and removal procedures

Refer to the technical specifications for your particular CPU to determine the 24 V DC sensor supply power budget, the 5 V DC logic budget supplied by your CPU and the 5 V DC power requirements of the expansion modules and signal boards.

### 4.3 Installation and removal procedures

#### 4.3.1 Mounting dimensions for the S7-200 SMART devices

The CPU and expansion modules include mounting holes to facilitate installation on panels.



| S7-200 SMART module                            |                                                                                                              | Width A (mm) | Width B (mm)      |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------|-------------------|
| CPU SR20, CPU ST20, and CPU CR20s              |                                                                                                              | 90           | 45                |
| CPU SR30, CPU ST30, and CPU CR30s              |                                                                                                              | 110          | 55                |
| CPU SR40, CPU ST40, and CPU CR40s              |                                                                                                              | 125          | 62.5              |
| CPU SR60, CPU ST60, and CPU CR60s <sup>1</sup> |                                                                                                              | 175          | 37.5 <sup>1</sup> |
| Expansion modules:                             | EM 4AI, EM 8AI, EM 2AQ, EM 4AQ, EM 8DI, EM 16DI, EM 8DQ, and EM 8DQ RLY, EM 16DQ RLY, and EM 16DQ Transistor | 45           | 22.5              |
|                                                | EM 8DI/8DQ and EM 8DI/8DQ RLY                                                                                | 45           | 22.5              |
|                                                | EM 16DI/16DQ and EM 16DI/16DQRLY                                                                             | 70           | 35                |
|                                                | EM 2AI/1AQ and EM 4AI/2AQ                                                                                    | 45           | 22.5              |
|                                                | EM 2RTD, EM 4RTD                                                                                             | 45           | 22.5              |
|                                                | EM 4TC                                                                                                       | 45           | 22.5              |
|                                                | EM DP01                                                                                                      | 70           | 35                |

<sup>1</sup>The CPU xx60 models have two sets of mounting holes. The width "B" dimension is measured from the center of each mounting hole to the corresponding edge of the housing.

## 04 COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

## 05 CONTROLLED DOCUMENT

|                 |                                    |
|-----------------|------------------------------------|
| Official source | SIMATIC S7-200 SMART System Manual |
| Product record  | 6ES7288-1SR20-0AA1                 |
| Manufacturer    | Siemens                            |
| Warranty        | 12 months from AMIKON              |
| Support         | INFO@AMIKON.CN                     |

AMIKON PRODUCT SUPPORT

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