OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Installation Instructions

6ES7318-3EL00-0AB0

Siemens official documentation for the exact article number.

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Selected official Siemens pages follow this cover.

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

⚠ DANGER

indicates that death or severe personal injury **will** result if proper precautions are not taken.

⚠ WARNING

indicates that death or severe personal injury **may** result if proper precautions are not taken.

⚠ CAUTION

indicates that minor personal injury can result if proper precautions are not taken.

NOTICE

indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

⚠ WARNING

Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

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Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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Preface

Purpose of the manual

The information contained in this manual can be used as a reference to operating, to functions, and to the technical data of the signal modules, power supply modules and interface modules of the S7-300.

Refer to the relevant S7-300 or ET 200M manuals to find out how to assemble and wire the modules.for system installation.

Basic knowledge required

This manual presumes general knowledge in the field of automation engineering.

Range of validity of this manual

The manual describes the components based on the data valid at the time of its release.

SIEMENS reserves the right to include product information for each new module of a later version.

Changes compared to the previous version

Changes / enhancements compared to the previous version described in this manual:

Comments on the previous version of this manual are included in the current edition.

Position in the overall documentation structure

The following documentation is part of the S7-300 documentation package. You can find this on the Internet (http://support.automation.siemens.com/WW/view/en/10805159/133300) and the corresponding entry ID.

Name of the manual	Description
Manual CPU 31xC and CPU 31x, technical data Entry ID: 12996906	Control and display elements, communication, memory concept, cycle and reaction times, technical data
Operating Instructions S7-300, CPU 31xC and CPU 31x: Installation Entry ID: 13008499	Project design, installation, wiring, addressing, commissioning, maintenance and test functions, diagnostics and troubleshooting.

Name of the manual	Description
System Manual PROFINET system description Entry ID: 19292127	Basic description of PROFINET: Network components, data exchange and communication, PROFINET IO, Component-based Automation, application example of PROFINET IO and Component-based Automation.
Programming manual Migration from PROFIBUS DP to PROFINET IO Entry ID: 19289930	Guideline for migration from PROFIBUS DP to PROFINET IO.
Manual • CPU 31xC: Technological functions Entry ID: 12429336 • CD containing examples	Description of the technological functions: positioning, counting, point-to-point coupling, loop control. The CD contains examples of the technological functions.
YOU ARE CURRENTLY READING the Manual S7-300 Automation System: Module Data Entry ID: 8859629	Description of the functions and technical data of signal/ power supply/ interface modules.
Instructions List • CPU 31xC, CPU 31x, IM151-7 CPU, IM154-8 CPU, BM 147-1 CPU, BM147-2 CPU Entry ID: 13206730 • CPU 312, CPU 314, CPU 315-2 DP CPU 315-2 PN/DP, CPU 317-2 PN/DP, CPU 319-3 PN/DP as of V3.0 Entry ID: 31977679	List of the CPU's instruction set and corresponding execution times. List of executable blocks (OBs, SFCs, SFBs) and their execution times.
Getting Started Available anthology of Getting Started manuals: • S7-300 Getting Started Entry ID: 15390497 • PROFINET Getting Started Collection Entry ID: 19290251	Using concrete examples, the Getting Started documentation provides step-by-step instructions focused on commissioning a fully functional application.

Other manuals on S7-300 and ET 200M

Name of the manual	Description
Reference Manual • CPU Data: CPU 312 IFM - 318-2 DP • Entry ID: 8860591	Control and display elements, communication, memory concept, cycle and reaction times, technical data
Software Installation Manual S7-300 Automation System: Installation: CPU 312 IFM – 318-2 DP Entry ID: 15390415	Project design, installation, wiring, addressing, commissioning, maintenance and test functions, diagnostics and troubleshooting.
Configuration manual ET 200M signal modules for process automation Entry ID: 7215812	Description of integration in process automation, parameter configuration using SIMATIC PDM, digital input modules, digital output modules.