SIEMENS

SIMOTION

References

Legal notes

Warning concept

This manual contains information that you should observe to ensure your own personal safety as well as to avoid material damage. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to equipment damage have no safety alert symbol. The notes shown below are graded according to the level of danger (in descending order):

Danger

Indicates that death or serious injury **will** result if the appropriate precautionary measures are not taken.

Warning

indicates that death or serious injury **can** result if the appropriate precautionary measures are not taken.

Caution

with a warning triangle indicates that minor personal injury can result if proper precautions are not taken.

Caution

without a safety alert symbol indicates that property damage could result if proper precautions are not taken.

Notice

indicates that an unintended result or situation can occur if the corresponding information is not taken into account.

In the event of a number of levels of danger occurring simultaneously, the warning corresponding to the highest level of danger is always used. A warning with a triangular safety alert symbol indicating possible injury to personnel 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 for the specific task, 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.

Correct usage of Siemens products

Note the following:

Warning

Siemens products are only permitted to be used for the applications envisaged in the catalog and in the associated technical documentation. If third–party products and components are used, they must be recommended or approved by Siemens. To ensure proper and safe operation of these products, they must be correctly transported, stored, set up, mounted, installed, commissioned, operated, and maintained. The permissible ambient conditions must be adhered to. Information in the associated documentation must be observed.

Trademarks

All names identified by ® are registered trademarks of Siemens AG. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

Disclaimer of liability

We have checked that the contents of this document correspond to the hardware and software described. However, since deviations cannot be precluded entirely, we cannot guarantee full consistency. The information given in this publication is reviewed at regular intervals and any corrections that might be necessary are made in the subsequent editions.

(A   )   .

Preface

Scope of validity

This list of references is valid for SIMOTION V4.2.

SIMOTION documentation

An overview of the SIMOTION documentation can be found in this separate list of references.

This documentation is supplied in electronic format with SIMOTION SCOUT.

The SIMOTION documentation consists of 10 documentation packages containing SIMOTION documents and documents on related systems, e.g. SINAMICS.

The documentation packages are organized according to functionalities and contents.

The following documentation packages are available for SIMOTION product Version 4.2:

- SIMOTION Engineering System
- SIMOTION System and Function Descriptions
- SIMOTION Service and Diagnostics
- SIMOTION IT
- SIMOTION Programming
- SIMOTION Programming – References
- SIMOTION C
- SIMOTION P
- SIMOTION D
- SIMOTION Supplementary Documentation

The information in the documents is also contained in the SIMOTION SCOUT online help.

You will find further documents at:

- SIMOTION application
  This contains an overview of the SIMOTION applications

- Ordering information
  Information on catalogs for SIMOTION and other components

- Additional information

Hotline and Internet addresses

Additional information

The following link contains information on:

- Ordering documentation / overview of documentation

- Additional links to download documents

- Using documentation online (find and search in manuals/information)

http://www.siemens.com/motioncontrol/docu

Please send any questions about the technical documentation (e.g. suggestions for improvement, corrections) to the following e-mail address:

docu.motioncontrol@siemens.com

My Documentation Manager

The following link contains information on how you can individually compile documentation based on the Siemens contents and adapt it for you own machine documentation:

http://www.siemens.com/mdm

Training

The following link contains information on SITRAIN – Siemens training for products, systems and automation solutions:

http://www.siemens.com/sitrain

FAQs

You can find Frequently Asked Questions in the Service&Support pages under **Product Support**:

http://support.automation.siemens.com

Technical support

Country–specific telephone numbers for technical support are provided in the Internet under **Contact**.

http://www.siemens.com/automation/service&support

SIMOTION documentation

The complete SIMOTION documentation is contained on the
DVD2 **Documentation, Utilities & Applications**.

SIMOTION Engineering System
This documentation package consists of the documents **1** to **3**.
It contains documents describing how to work with the SIMOTION engineering
system and the SIMOTION CamTool option package.

Edition 11/2010

1   **SIMOTION SCOUT, Configuration Manual**
Describes SIMOTION SCOUT, the SIMOTION engineering system

Edition 11/2010

2   **SIMOTION Terms and Abbreviations, Glossary**

Edition 11/2010

3   **SIMOTION CamTool, Configuration Manual**
Describes the easy–to–use cam tool

Edition 11/2010

SIMOTION System and Function Descriptions

This documentation package consists of the documents **4** to **13**.
It contains descriptions of the theory behind the SIMOTION system as well as descriptions of the technology objects (TO).

Note:

Additional information on system functions, system variables and configuration data is contained in the documentation package, SIMOTION Programming – References.

Edition 11/2010

4   **Basic Functions, Function Manual**

Describes the system architecture, configuration and the programming of the basic functions for SIMOTION's motion control and general system functions.

Edition 11/2010

5   **Motion Control, TO Axis Electric / Hydraulic, External Encoder, Function Manual**

Describes the operating principles of the drive, position and hydraulic axes technology objects and the external encoder.

Edition 11/2010

6   **Motion Control, Synchronous Operation and Cam Technology Objects, Function Manual**

Describes the operating principles of the gearing and camming technology objects.

Edition 11/2010

7   **Motion Control, TO Path Interpolation, Function Manual**

Describes the functionality of the technology objects for path interpolation.

Edition 11/2010

8   **Motion Control, Output Cam and Measuring Input Technology Objects, Function Manual**

Describes the operating principles of the output cam, cam track and measuring input technology objects.

Edition 11/2010

9   **Motion Control, Supplementary Technology Objects, Function Manual**

Describes the operating principles of the fixed gear, addition object, formula object, sensor, controller object and temperature controller technology objects.

Edition 11/2010

10   **Basic Functions for Modular Machines, Function Description**

Describes the modular machines functionality in the SIMOTION and SINAMICS system.

Edition 11/2010

11   SIMOTION Communication, System Manual

Describes the communications capabilities of SIMOTION systems as well as to devices outside the SIMOTION family, in particular SIMATIC.

Edition 11/2010

12   SIMATIC Communication with SIMATIC, System Manual
Document identification number: EWA 4NEB 710 6075–02 04

Edition 09/2006

13   SIMATIC PROFINET System Description, System Manual
Document identification number: A5E00298288–05   Edition 07/2010

SIMOTION Service and Diagnostics

This documentation package consists of the documents **14** to **18**.
It contains all the information on the system service and diagnostic functions.

Edition 11/2010

**14   Overview of Service and Diagnostics Options,
Product Information**

Overview of the options for system diagnostics for
SIMOTION devices and references to other manuals
and online helps.

Edition 11/2010

15   Technology Packages Alarms, Diagnostics Manual

Contains information on the alarms for the **Cam, Path, Cam_ext** and **TControl**
technology packages.
The alarms are organized numerically under the technology packages (TP)
according to technology object (TO).

Edition 11/2010

16   Upgrading SIMOTION Devices, Operating Instructions

Describes the upgrading and downgrading of SIMOTION devices.

Edition 11/2010

17   Task Trace, Function Manual

Describes the structure and handling of the SIMOTION Task Trace.

Edition 11/2010

**18   SIMOTION Project Comparison,
Function Manual**

Describes the SCOUT/STARTER Project Comparison function with which you can
compare objects within a project or with objects from other projects (online or
offline).

Edition 11/2010

SIMOTION IT

This documentation package consists of the documents **19** to **21**.
It contains all the information on the system service and diagnostic functions.

Edition 11/2010

**19   SIMOTION IT Ethernet‑based HMI and Diagnostics Function,
Diagnostics Manual**

SIMOTION IT enables access to the machine with standard Web technologies, not
only locally, but also remotely.

Describes the SIMOTION IT DIAG, SIMOTION OPC XML–DA Server
and Trace Interface via SOAP function packages.
Handling of the Web browser for the diagnostics pages.

Edition 11/2010

**20   SIMOTION – Servlets,
Programming Manual**

This document describes the scope of functions that are implemented,
how the parameters for the servlet container are assigned and how the container is
started, and how an example of a Java servlet is started up.

Edition 11/2010

**21   SIMOTION – IT Virtual Machine,
Programming Manual**

This document describes how the SIMOTION–integrated JamaicaVM is
parameterized, and how a Java user program is started up.

Edition 11/2010

SIMOTION Programming

This documentation package consists of the documents **22** to **25**.
It contains documents describing the various programming languages and editors.

Edition 11/2010

**22   SIMOTION ST Structured Text,
Programming and Operating Manual**

Describes the text–based Structured Text SIMOTION programming language.

Edition 11/2010

**23   SIMOTION MCC Motion Control Chart,
Programming and Operating Manual**

Describes the graphics–based Motion Control Chart SIMOTION programming language.

Edition 11/2010

**24   SIMOTION LAD/FBD,
Programming and Operating Manual**

Describes the graphics–based Ladder Diagram (LAD) and Function Block Diagram (FBD) SIMOTION programming languages.

Edition 11/2010

**25   SINAMICS/SIMOTION DCC editor description,
Programming and Operating Manual**

Describes the graphics–based Drive Control Chart Editor (DCC Editor) based on CFC. Graphics–based configuration of SIMOTION controls and SINAMICS drives is possible.

Edition 11/2010

SIMOTION Programming – References

This documentation package consists of the documents **26** to **43**.
The documents **26** to **29** are all reference lists required for the programming of the Cam, Path, Cam_ext and TControl technology packages as well as the SIMOTION devices.

The documents **30** to **43** contain descriptions of other function blocks from the SIMOTION SCOUT command library.

Edition 11/2010

26   System Functions/Variables Device, List Manual

Describes the system functions/variables for the SIMOTION C, P and D hardware platforms.

Edition 11/2010

27   Technology Packages System Functions, List Manual

Describes the system functions for the **Cam_ext** and **TControl** technology packages (TP). TP **Cam** and TP **Path** are part of Cam_ext.

The list manual is organized based on the structure of the SIMOTION SCOUT command library.

The command library is located in the tab of the same name in the project navigator of SIMOTION SCOUT. The system functions are listed there in the PLCopen and Technology folders.

The list of reserved identifiers can be found in the SIMOTION Basic Functions, Function Manual
(see SIMOTION System and Function Description documentation package).

Edition 11/2010

28   Technology Packages Configuration Data, List Manual

Describes the configuration data for the **Cam, Path, Cam_ext** and **TControl** technology packages.

The configuration data is listed as follows:
Under the technology packages (TP) according to technology object (TO), within these in alphabetical order.

Edition 11/2010

29   Technology Packages System Variables, List Manual

Describes the system variables for the **Cam**, **Path, Cam_ext** and **TControl** technology packages.
The system variables are listed as follows:
Under the technology packages (TP) according to technology object (TO), within these in alphabetical order.

Edition 11/2010

30   PLCopen Blocks, Function Manual

Describes the PLCopen blocks for motion control programming from a cyclic PLC viewpoint.

Edition 11/2010

**31   SINAMICS/SIMOTION Description of the Standard DCC Blocks,
       Function Manual**

Describes the standard DCC blocks for SIMOTION and SINAMICS.

Edition 11/2010

Drive connection

32   Standard function for SINAMICS S120 Line Modules

Describes the function blocks for the activation and deactivation of the
SINAMICS S120 Line Modules with DRIVE–CLiQ connection.

Edition 11/2010

**33   Supplement to the SIMODRIVE POSMO A Positioning Motor,
       Function Manual**

Describes the function blocks for communication between the SIMOTION system
and the distributed SIMODRIVE POSMO A positioning motor.

Edition 03/2009

**34   Reading and Writing Drive Data,
       Function Manual**

Describes the function block for reading and writing drive data in SIMOTION.

Edition 08/2008

SIMODRIVE

The documents for this topic are available at:
Additional Information for SIMOTION

I/O

**35   Supplement to the CP 340 and CP 341 Modules,
       Function Manual**

Describes the function blocks for the data exchange between a SIMOTION device
and communication processors.

Edition 11/2010

**36   Supplement to the FM 350–1, FM 350–2 and FM 352 Modules,
       Function Manual**

Describes the function blocks for the communication between the SIMOTION
system and the FM 350–1, FM 350–2 and FM 352 modules.

Edition 11/2010

**37   Supplement to the ET 200S 1SI Serial Interface Module,
       Function Manual**

Describes the function blocks for the communication between the SIMOTION
system and the ET 200S 1SI serial interface.

Edition 03/2009

**38   Supplement to the ET 200S Frequency Converter,
       Function Manual**

Describes the function block for controlling an
ET 200S frequency converter.

Edition 11/2010

39 Supplement to the Command Interface for AS–Interface Master Modules, Function Manual

Describes the function block for operation of the command interface of the AS–Interface master modules.

Edition 03/2009

40 Standard Function for ASIsafe Safety Monitors, Function Manual

Describes the function block for reading out the diagnostic information of the ASIsafe safety monitor.

Edition 03/2009

41 Standard Functions for RFID Systems, Function Manual

Describes the function blocks for the data exchange between the SIMOTION system and RFID systems according to the standard profile.

Edition 08/2008

42 Supplement to the SIWAREX FTA Weighing Module, Function Manual

Describes the function block for controlling and assigning parameters to a SIWAREX FTA weighing module.

Edition 11/2010

SIMATIC

The documents for this topic are available at:
Additional Information for SIMOTION

Open–loop control

43 Basic Control, Function Manual

Describes the function blocks of the "Basic Control" software.

Edition 08/2008

SIMOTION C

This documentation package consists of the document **44**.
It contains the description for the SIMOTION C hardware platform.

The system functions and variables for the SIMOTION C hardware platform are described in the System Functions/Variables Devices, List Manual. (See SIMOTION Programming – References documentation package)

Edition 11/2010

44   SIMOTION C, Operating Instructions

Describes the controller versions of the SIMOTION product family.

Edition 11/2010

SIMOTION P

This documentation package consists of the documents **45** to **48**.
It contains descriptions for the
SIMOTION P platform.

The system functions and variables for the SIMOTION P hardware platform are described in the System Functions/Variables Devices, List Manual. (See SIMOTION Programming – References documentation package)

Edition 11/2010

**45   SIMOTION P320–3 and Panel Fronts,
Manual**

Describes the PC–based hardware of the SIMOTION product family.

Edition 11/2010

**46   SIMOTION P320–3 and Panel Fronts,
Commissioning and Hardware Installation Manual**

Describes the PC–based hardware of the SIMOTION product family.

Edition 11/2010

**47   SIMOTION P350–3 and Panel Fronts,
Manual**

Describes the PC–based hardware of the SIMOTION product family.

Edition 11/2010

**48   SIMOTION P350–3 and Panel Fronts,
Commissioning and Hardware Installation Manual**

Describes the PC–based hardware of the SIMOTION product family.

Edition 11/2010

SIMOTION D

This documentation package consists of the documents **49** to **74**.

It consists of two subpackages.

The documents **49** to **54** contain the descriptions for the SIMOTION D hardware platform.
The system functions and variables for the SIMOTION D hardware platform are described in the System Functions/Variables Devices, List Manual. (See SIMOTION Programming – References documentation package)

The documents **55** to **74** contain the descriptions for SINAMICS Integrated.

With SIMOTION D, the SIMOTION PLC and motion control functionalities as well as the SINAMICS S120 drive software run on a shared control hardware.

The integrated drive (SINAMICS Integrated) as well as further drive components are described in the documentation for SINAMICS S120:

- For SIMOTION D4xx, the SINAMICS Integrated is based on SINAMICS firmware Version 2.6
- For SIMOTION D4xx–2, the SINAMICS Integrated is based on SINAMICS firmware Version 4.4

The documents for SINAMICS Integrated can also be supplied individually with the appropriate order number as hard copy.

Edition 11/2010

49   SIMOTION D4x5, Manual

Describes the drive–based hardware of the SIMOTION product family.
Edition 11/2010

50   SIMOTION D4x5, Commissioning and Hardware Installation Manual

Describes the drive–based hardware of the SIMOTION product family.
Edition 11/2010

51   SIMOTION D4x5–2, Manual

Describes the drive–based hardware of the SIMOTION product family.
Edition 11/2010

52   SIMOTION D4x5–2, Commissioning and Hardware Installation Manual

Describes the drive–based hardware of the SIMOTION product family.
Edition 11/2010

53   SIMOTION D410, Manual

Describes the hardware for the SIMOTION modular drive system for single axes.
Edition 11/2010

54   SIMOTION D410, Commissioning Manual

Describes the hardware for the SIMOTION modular drive system for single axes.
Edition 11/2010

SINAMICS Integrated, Firmware Version 2.6

55 **SINAMICS S120 Commissioning,**
Commissioning Manual

This commissioning manual contains all information relevant for the commissioning after installation and wiring.

Order number: **6SL3097‑2AF00‑0BP8** **Edition 10/2008**

56 **SINAMICS S120 Drive functions,**
Function Manual

This function manual contains all the relevant information about individual drive functions: Description, commissioning and integration in the drive system.

Order number: **6SL3097‑2AB00‑0BP5** **Edition 10/2008**

57 **SINAMICS S120 Safety Integrated,**
Function Manual

Order number: **6SL3097‑2AR00‑0BP2** **Edition 10/2008**

58 **SINAMICS S120/S150, List Manual**

This list manual contains all parameters, function diagrams and faults/warnings for the product/system as well as their meaning and setting options.

Order number: **6SL3097‑2AP00‑0BP8** **Edition 06/2009**

59 **SINAMICS S120 Control Units and additional system components,**
Manual

This manual contains all information required by the user prior to powering up the system components the first time up to the intended use of the system components, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: **6SL3097‑2AH00‑0BP5** **Edition 10/2008**

60 **SINAMICS S120 Booksize power units,**
Manual

This manual contains all information required by the user prior to powering up the system components the first time up to the intended use of the system components, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: **6SL3097‑2AC00‑0BP7** **Edition 10/2008**

61 **SINAMICS S120 Booksize coldplate power units,**
Manual

This manual contains all information required by the user prior to powering up the system components the first time up to the intended use of the system components, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: **6SL3097‑2AJ00‑0BP4** **Edition 03/2007**

62 **SINAMICS S120 Chassis power units,**
Manual

Order number: **6SL3097-2AE00-0BP3**   **Edition 10/2008**

63 **SINAMICS S120 Liquid Cooled Chassis Power Units,**
Manual

Order number: **6SL3097-2AM00-0BP5**   **Edition 10/2008**

64 **SINAMICS S120 AC DRIVE,**
Manual

This manual contains all information required by the user prior to powering up the system components the first time up to the intended use of the system components, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: **6SL3097-2AL00-0BP4**   **Edition 10/2008**

You will find further manuals at:

http://support.automation.siemens.com/WW/view/en/13305690/133300

SINAMICS Integrated, Firmware Version 4.4

65 **SINAMICS S120 Getting Started**

This document provides information on getting started for the first–time user as well as references to additional information.

Order number: **6SL3097-4AG00-0BP0**   **Edition 01/2011**

66 **SINAMICS S120 Commissioning,**
Commissioning Manual

This commissioning manual contains all information relevant for the commissioning after installation and wiring.

Order number: **6SL3097-4AF00-0BP1**   **Edition 01/2011**

67 **SINAMICS S120 Drive Functions,**
Function Manual

This function manual contains all the relevant information about individual drive functions: Description, commissioning and integration in the drive system.

Order number: **6SL3097-4AB00-0BP1**   **Edition 01/2011**

68 **SINAMICS S120 Safety Integrated,**
Function Manual

Order number: **6SL3097-4AR00-0BP2**   **Edition 01/2011**

69 **SINAMICS S120/S150,**
List Manual

This list manual contains all parameters, function diagrams and faults/warnings for the product/system as well as their meaning and setting options.

Order number: 6SL3097‑4AP00‑0BP2 **Edition 01/2011**

70 **SINAMICS S120 Control Units and Supplementary System**
Components, Manual

This manual contains all information required by the user prior to powering up the system components the first time up to the intended use of the system components, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: 6SL3097‑4AH00‑0BP1 **Edition 01/2011**

71 **SINAMICS S120 Booksize Power Units,**
Manual

This manual contains all information required by the user prior to powering up the system components the first time up to the intended use of the system components, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: 6SL3097‑4AC00‑0BP3 **Edition 01/2011**

72 **SINAMICS S120 Chassis Power Units,**
Manual

Order number: 6SL3097‑4AE00‑0BP1 **Edition 01/2011**

73 **SINAMICS S120 Liquid Cooled Chassis Power Units,**
Manual

Order number: 6SL3097‑4AM00‑0BP1 **Edition 01/2011**

74 **SINAMICS S120 AC DRIVE,**
Manual

This manual contains all information required by the user prior to powering up the system components the first time up to the intended use of the system components, including technical data, interfaces, dimension drawings, characteristic curves and application options.

Order number: 6SL3097‑4AL00‑0BP1 **Edition 01/2011**

You will find further manuals at:

http://support.automation.siemens.com/WW/view/en/13305690/133300

SIMOTION Supplementary Documentation

This documentation package consists of the documents **75** to **79**.
It contains descriptions of all product information as well as hardware sold in conjunction with SIMOTION (such as ADI4).

Edition 11/2010

**75   SIMOTION Terminal Modules TM15 / TM17 High Feature,
Commissioning Manual**

This document describes the functionality and use of the TM15 and TM17 High Feature Terminal Modules.

Edition 11/2010

**76   SIMOTION Terminal Modules TM15 / TM17 High Feature,
Manual**

This document describes the functionality and use of the TM15 and TM17 High Feature Terminal Modules.

Edition 11/2010

**77   ADI4 – Analog Drive Interface for 4 Axes,
Manual**

This document describes the functionality and use of the ADI4 – Analog Drive Interface via which up to four drives can be operated with the analog setpoint interface on the isochronous PROFIBUS DP.

Edition 03/2010

**78   SIMATIC Distributed I/Os IM 174 PROFIBUS Module,
Manual**

This document describes the standard functionality of the IM 174 module, an interface module via which up to four drives can be operated with the analog setpoint interface with one TTL or SSI encoder per axis on the isochronous PROFIBUS DP.

Edition 01/2009

79   SIMATIC NET (XP) for SIMOTION, Product Information

This document describes the open OPC interface for access to various communication peers via SIMATIC NET.

Edition 05/2009

SIMOTION Application

This documentation package consists of the documents **80** to **104**.

Numerous applications are available for SIMOTION that provide a sound basic configuration or already preconfigured sector–specific configurations.
With the aid of the supplied documentation, the applications can be easily used, adapted and expanded.

You can find the following applications in the SIMOTION Utilities & Applications.
SIMOTION Utilities & Applications is provided as part of the SIMOTION SCOUT scope of delivery.

80   SIMOTION Flying Saw

Flying saw

81   SIMOTION Rotary Knife

Cross cutter

82   SIMOTION Winder

Winders

83   SIMOTION Automatic Splice

Flying splice with gluing together of material webs

84   SIMOTION Top Loading

Solution for flexible handling applications

All the current SIMOTION applications can be found on the Internet at:
http://www.siemens.de/simotion/solutions

The documents are supplied with the respective application or on request.
Please contact you local Siemens representative.

A selection of the applications is listed below:

85   SIMOTION Easy Basics

Collection of standardized SIMOTION basic functions
(see also http://support.automation.siemens.com/WW/view/en/43192804)

86   SIMOTION Baggers and Wrappers

Solution for tubular bagging machines

87   SIMOTION Intelligent Infeed

The application for automatic product infeed with contact–free metering in of the products

88 **SIMOTION Message Handling**

The application for quick integration of the message handling in an existing SIMOTION project

89 **SIMOTION Cartoner**

Solution for packaging machines

90 **SIMOTION Axis Function Block**

Solution for controlling single axes

91 **SIMOTION Startup Check**

The application for the startup check of devices and I/O modules in the SIMOTION system

92 **SIMOTION Intelligent Belt**

Solution for the automatic operation of an intelligent belt (two–train) as well as provision of functions such as homing, positioning and jogging

93 **SIMOTION/SIMATIC Ethernet Communication TCP/IP LCom**

The communication module in the LCom library provides the functionality of a data–set–oriented transport protocol

94 **SIMOTION/SIMATIC OMAC V3**

TCP/IP communication for SIMOTION and SIMATIC for data blocks up to 64 KB time synchronization

95 **SIMOTION SimoPress**

The application for automating mechanical universal presses with SIMOTION

96 **SIMOTION SimoTrans**

Solution for electronic transfer systems in the metal forming technology.

97 **SIMOTION SimoRoll**

Solution for electronic roll feed in the metal forming technology

98 **SIMOTION SimoFeed**

Solution for press linking with feeder in the metal forming technology

99 **SIMOTION IME5000 (all–electric injection molding)**

Solution for electric injection molding machines

100 **SIMOTION Print Standard**

Application example for various printing machine types

101 **SIMOTION Traverser Application**

Traverser

102 **SIMOTION Weaving Application**

Solution for weaving machines

103   **SIMOTION Ring Spinning Application**

Solution for ring spinning machines

104   **SIMOTION Rowing Frame Application**

Solution for flyer control in the spinning process

SIMOTION Ordering Information

Catalogs for SIMOTION and other components

105 SIMOTION, SINAMICS S120 and Motors for Production Machines, Catalog PM 21

Ordering information

Order no.: E86060‑K4921‑A101‑A2‑7600   **Edition 2011**

106 SINUMERIK & SIMODRIVE, Catalog NC 60, Automation Systems for Machine Tools

Ordering information

Order number: E86060‑K4460‑A101‑B3‑7600   **Edition 2009**

107 SINUMERIK & SINAMICS, Catalog NC 61, Equipment for Machine Tools

Ordering information

Order no.: E86060‑K4461‑A101‑A3‑7600   **Edition 2010**

108 SIMATIC Products for Totally Integrated Automation and Micro Automation, Catalog ST 70,

Ordering information

Order no.: E86060‑K4670‑A101‑B2‑7600   **Edition 2009**

109 SIMATIC Products for Totally Integrated Automation and Micro Automation, Catalog ST 70 N,

Ordering information

Order no.: E86060‑K4670‑A151‑A5‑7600   **Edition 2010**

110 SIMATIC NET, Industrial Communication, Catalog IK PI,

Ordering information

Order no.: E86060‑K6710‑A101‑B6‑7600   **Edition 2009**

111 SIMATIC NET, Industrial Communication, Catalog IK PI N,
Ordering information

Order no.: E86060‑K6710‑A121‑A3‑7600 (News) **Edition 2010**

Interactive Catalogs

112 /CA01/ Automation and Drives' Offline Mall (only DVD edition)
Annual update in October, can be ordered at:
http://www.automation.siemens.com/ik/html_00/ca01.htm

Order no.: E86060‑D4001‑A510‑C9‑7600 **Edition 10/2010**

113 /Mall/ IA&DT Mall, Catalog and Online Ordering System
http://www.siemens.com/industrymall

114 SIMOVERT MASTERDRIVES Vector Control
Single‑ and Multi‑Motor Drives 0.55 kW to 2300 kW
Ordering information

Order no.: E86060‑K5165‑A101‑A3‑7600 **Edition 2003/2004**

Additional information for SIMOTION

115 SIMATIC HMI, ProTool Configuration

Communication for Windows–based Systems,
SIMATIC Manual Collection, incl. SIMATIC HMI
Order number: 6ES7 998-8XC01-8YE0

116 SIMATIC NET CP 343-2 / CP 343-2 P AS-Interface Master, Manual

Document identification number: C79000-G8900-C149-03   **Edition 03/2008**

117 SIMATIC NET DP/AS-Interface Link 20E, Manual

Document identification number: C79000-G8976-C138-04   **Edition 11/2002**

118 SIMATIC NET DP/AS-Interface Advanced, Manual

Document identification number: C79000-G8976-C209-03   **Edition 03/2008**

119 SIMATIC NET IE/AS-Interface Link PN IO, Manual

Document identification number: C79000-G8976-C216-03   **Edition 03/2008**

120 SIMATIC ET 200M Distributed I/O Device, Operating Instructions

Document identification number: EWA-4NEB780600602-08   **Edition 12/2008**

121 SIMATIC S7-300 CP 340 Point-to-Point Connection, Installation and Parameter Assignment, Manual

Document identification number: A5E00369892-02   **Edition 10/2007**

122 SIMATIC S7-300 CP 341 Point-to-Point Connection, Installation and Parameter Assignment, Manual

Document identification number: A5E02191071-01   **Edition 09/2008**

123 SIMATIC S7-300 FM 350-1 Counter Module, Manual

Document identification number: A5E00073040-04   **Edition 04/2009**

124 SIMATIC FM 350-2 Counter Module, Installation and Parameter Assignment, Commissioning and Hardware Installation Manual

Document identification number: A5E01365983-02   **Edition 04/2008**

125 SIMATIC FM 352 Function Modules Installation and Parameter Assignment, Operating Instructions

Document identification number: A5E01071719-01   **Edition 04/2009**

126 **SIMATIC ET 200S Distributed I/Os IM151-1 HIGH FEATURE Interface Module (6ES7151-1BA02-0AB0), Manual**

Document identification number: A5E01075975-02   **Edition 03/2008**

127 **SIMATIC ET 200S Distributed I/Os IM151-3 PN HIGH FEATURE Interface Module (6ES7151-3BA23-0AB0), Manual**

Document identification number: A5E01584258-04   **Edition 08/2010**

128 **SIMATIC ET 200S Distributed I/O System, Operating Instructions**

Document identification number: A5E00515771-06   **Edition 08/2008**

129 **SIMATIC ET 200S Serial Interface Modules, Operating Instructions**

Document identification number: A5E00124880-05   **Edition 03/2009**

130 **SIMATIC ET 200S FC Frequency Converter, Operating Instructions**

Document identification number: A5E00348611A AA   **Edition 03/2005**

131 **SIMATIC ET 200S FC Frequency Converter ICU24(F) Control Units, List Manual**

Document identification number: A5E00348653A AA   **Edition 03/2005**

132 **SIMATIC S7-300 Automation System, Module Data, Manual**

This manual is part of the documentation packages with the following
order numbers: 6ES7398-8FA10-8BA0   **Edition 08/2010**
Document identification number: A5E00105505-06   **Edition 08/2009**

133 **SIMATIC Logon, Configuration Manual**

Document identification number: A5E00496669-05   **Edition 08/2008**

134 **EMC Installation Guide, Configuration Manual (HW)**

Order no.: 6FC5 297-0AD30-0AP2   **Edition 03/2004**

135 **SIMODRIVE POSMO A**

Distributed Positioning Motor on the PROFIBUS DP, User Manual

Order no.: 6SN2197-0AA00-1AP1   **Edition 10/2007**

136 **SIMODRIVE POSMO A**

Hardware Installation Instructions

Order no.: 6SN2197-0AA00-0AP   **Edition 04/2002**

137   **SIMODRIVE 611 Universal / E, Description of Functions**
Closed–loop control component for speed control and positioning

   Order no.: 6SN1197-0AB20-1AP3   **Edition 09/2005**

138   **SIMOVERT MASTERDRIVES Motion Control, Compendium (AI)**

                                                     Edition 12/2007

139   **Distributed Servo Drives, User Manual**
SIMODRIVE POSMO SI, SIMODRIVE CD/CA

   Order no.: 6SN2 197-0AA20-0AP7   **Edition 10/2004**

140   **SINUMERIK 840D/840Di/810D, Operator Components, Manual**

   Order no.: 6FC5297-7AA50-0AP0   **Edition 04/2004**

141   **SIRIUS AS-Interface Safety Monitor IEC 61508/EN 954-1,**
Operating Instructions

142   **AS-Interface Safety Monitor, Operating Instructions**
Document identification number: GWA 4NEB 333 1557 01 DS02
                                                     Edition 09/2008
   Order no.: 3RK1701-2MB21-0AA0

143   **ASIMON AS-Interface Safety Monitor,**
Programming and Operating Manual
Configuration Software for Microsoft® Windows®
Document identification number: GWA 4NEB 333 1558 01 DS 02
                                                     Edition 09/2008

144   **SIMATIC Sensor RFID Systems ASM 456 Interface Module,**
Operating Instructions
Order number: J31069-D0162-U001-A4-0018   **Edition 10/2009**

145   **SIWAREX FTA Weighing Electronics for Independent Weighing,**
Manual
   Document identification number: A5E00452858A   **Edition 06/20010**