

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Installation Instructions

6FC5370-3AA30-0AA1

Siemens official documentation for the exact article number.

Source: 6FC5370-3AA30-0AA1.pdf

Selected official Siemens pages follow this cover.

SIEMENS

SINUMERIK

SINUMERIK 828D PPU and components

Manual

Preface

Fundamental safety
instructions

1

System description

2

Application planning

3

Installing

4

Rules for permitted topologies

5

Interface description

6

Connectable components

7

Technical data

8

Spare parts and accessories

9

Appendix

A

Valid for:
SINUMERIK 828D
PPU 24x.3 BASIC
PPU 26x.3
PPU 28x.3
PPU 290.3

10/2015
6FC5397-2DP40-5BA3

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.

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 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.

SINUMERIK

You can find information on SINUMERIK under the following link: (www.siemens.com/sinumerik)

Target group

This documentation is intended for manufacturers of machine tools, particularly:

- Project engineers, electricians and installers
- Maintenance and service personnel

Benefits

The information in this manual facilitates installation and connection of the SINUMERIK 828D numerical control.

Standard version

This documentation only describes the functionality of the standard version. Extensions or changes made by the machine manufacturer are documented by the machine manufacturer.

Other functions not described in this documentation might be executable in the control. However, no claim can be made regarding the availability of these functions when the equipment is first supplied or in the event of servicing.

Further, for the sake of simplicity, this documentation does not contain all detailed information about all types of the product and cannot cover every conceivable case of installation, operation or maintenance.

Technical support

Country-specific telephone numbers for technical support are provided in the Internet under "Contact" (www.siemens.com/automation/service&support).

EC Declaration of Conformity

The EC declaration of conformity for the EMC directive can be found in the Internet (<http://support.automation.siemens.com/WW/view/de/10805517/134200>).

5.5	Topology example with Safety Integrated functions.....	67
6	Interface description.....	73
6.1	Interface overview.....	73
6.2	Power supply connection.....	75
6.2.1	Requirements for the power supply.....	75
6.2.2	Connecting the power supply.....	76
6.3	Ethernet.....	77
6.4	PLC I/O Interface based on PROFINET	79
6.5	Digital inputs/outputs.....	82
6.5.1	Terminal connection diagram.....	87
6.5.2	Example: Connecting a BERO inductive proximity switch	88
6.5.3	Technical data	89
6.6	DRIVE-CLiQ.....	91
6.6.1	DRIVE-CLiQ interface.....	91
6.6.2	SINAMICS components.....	92
6.7	Handwheel.....	94
6.8	USB.....	97
6.9	RS 232 serial interface.....	98
7	Connectable components.....	99
7.1	MCP 483 USB.....	99
7.1.1	Operator controls and displays.....	100
7.1.2	Mounting.....	101
7.1.3	Connecting.....	103
7.1.4	Parameterization.....	105
7.1.5	Technical data.....	108
7.1.6	Spare parts and accessories.....	109
7.2	MCP 310 USB.....	111
7.2.1	Operator controls and displays.....	112
7.2.2	Mounting.....	114
7.2.3	Connecting.....	116
7.2.4	Parameterization.....	118
7.2.5	Technical data.....	121
7.2.6	Spare parts and accessories.....	122
7.3	MCP Interface PN.....	125
7.3.1	Mounting.....	127
7.3.2	Connection.....	128
7.3.3	Parameter assignment.....	141
7.3.4	Technical data.....	144
7.4	MCP 483C PN.....	145
7.4.1	Operator controls and display elements.....	146
7.4.2	Mounting.....	149
7.4.3	Connecting.....	150
7.4.4	Parameterization.....	156
7.4.5	Technical data.....	159