

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

# Installation Instructions

## 6FC5370-3AM20-0AA0

Siemens official documentation for the exact article number.

Source: 6FC5370-3AM20-0AA0.pdf

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.

### 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.

## Usage phases and their documents/tools (as an example)

Table 1 Usage phases and the available documents/tools

| Usage phase            | Document/tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Orientation            | SINAMICS S Sales Documentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Planning/configuration | <ul style="list-style-type: none"> <li>• SIZER Engineering Tool</li> <li>• Configuration Manuals, Motors</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Deciding/ordering      | SINAMICS S120 catalogs <ul style="list-style-type: none"> <li>• SINAMICS S120 and SIMOTICS (Catalog D 21.4)</li> <li>• SINAMICS Converters for Single-Axis Drives and SIMOTICS Motors (Catalog D 31)</li> <li>• SINUMERIK 840 Equipment for Machine Tools (Catalog NC 62)</li> </ul>                                                                                                                                                                                                                                                                                                                                                      |
| Installation/assembly  | <ul style="list-style-type: none"> <li>• SINAMICS S120 Manual for Control Units and Additional System Components</li> <li>• SINAMICS S120 Manual for Booksize Power Units</li> <li>• SINAMICS S120 Manual for Booksize Power Units C/D Type</li> <li>• SINAMICS S120 Manual for Chassis Power Units, Air-cooled</li> <li>• SINAMICS S120 Manual for Chassis Power Units, Liquid-cooled</li> <li>• SINAMICS S120 Manual for AC Drives</li> <li>• SINAMICS S120 Manual Combi</li> <li>• SINAMICS S120M Manual Distributed Drive Technology</li> <li>• SINAMICS HLA System Manual Hydraulic Drive</li> </ul>                                 |
| Commissioning          | <ul style="list-style-type: none"> <li>• STARTER Commissioning Tool</li> <li>• Startdrive commissioning tool</li> <li>• SINAMICS S120 Getting Started with STARTER</li> <li>• SINAMICS S120 Getting Started with Startdrive</li> <li>• SINAMICS S120 Commissioning Manual with STARTER</li> <li>• SINAMICS S120 Commissioning Manual with Startdrive</li> <li>• SINAMICS S120 CANopen Commissioning Manual</li> <li>• SINAMICS S120 Function Manual Drive Functions</li> <li>• SINAMICS S120 Safety Integrated Function Manual</li> <li>• SINAMICS S120/S150 List Manual</li> <li>• SINAMICS HLA System Manual Hydraulic Drive</li> </ul> |
| Usage/operation        | <ul style="list-style-type: none"> <li>• SINAMICS S120 Commissioning Manual with STARTER</li> <li>• SINAMICS S120 Commissioning Manual with Startdrive</li> <li>• SINAMICS S120/S150 List Manual</li> <li>• SINAMICS HLA System Manual Hydraulic Drive</li> </ul>                                                                                                                                                                                                                                                                                                                                                                         |
| Maintenance/servicing  | <ul style="list-style-type: none"> <li>• SINAMICS S120 Commissioning Manual with STARTER</li> <li>• SINAMICS S120 Commissioning Manual with Startdrive</li> <li>• SINAMICS S120/S150 List Manual</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| References             | <ul style="list-style-type: none"> <li>• SINAMICS S120/S150 List Manual</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Target group

This documentation is intended for machine manufacturers, commissioning engineers, and service personnel who use the SINAMICS drive system.

## Benefits

This manual provides all of the information, procedures and operator actions required for the particular usage phase.

## Standard scope

The scope of the functionality described in this document can differ from that of the drive system that is actually supplied.

- Other functions not described in this documentation might be able to be executed in the drive system. However, no claim can be made regarding the availability of these functions when the equipment is first supplied or in the event of service.
- The documentation can also contain descriptions of functions that are not available in a particular product version of the drive system. The functionality of the supplied drive system should only be taken from the ordering documentation.
- Extensions or changes made by the machine manufacturer must be documented by the machine manufacturer.

For reasons of clarity, this documentation does not contain all of the detailed information on all of the product types, and cannot take into consideration every conceivable type of installation, operation and service/maintenance.

## Technical Support

Country-specific telephone numbers for technical support are provided in the Internet at the following address (<https://support.industry.siemens.com/sc/ww/en/sc/2090>) in the "Contact" area.

## Relevant directives and standards

You can obtain an up-to-date list of currently certified components on request from your local Siemens office. If you have any questions relating to certifications that have not yet been completed, please ask your Siemens contact person.

### Certificates for download

The certificates can be downloaded from the Internet:

Certificates (<https://support.industry.siemens.com/cs/ww/en/ps/13206/cert>)



### EC Declaration of Conformity

You can find the EC Declaration of Conformity for the relevant directives as well as the relevant certificates, prototype test certificates, manufacturers declarations and test certificates for functions relating to functional safety ("Safety Integrated") on the Internet at the following address (<https://support.industry.siemens.com/cs/ww/en/ps/13231/cert>).

## Not relevant standards



### China Compulsory Certification

SINAMICS S devices do not fall in the area of validity of the China Compulsory Certification (CCC).

## EMC limit values in South Korea

이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

For sellers or other users, please bear in mind that this device is an A-grade electromagnetic wave device. This device is intended to be used in areas other than at home.

The EMC limit values to be observed for Korea correspond to the limit values of the EMC product standard for variable-speed electric drives EN 61800-3 of category C2 or the limit value class A, Group 1 to KN11. By implementing appropriate additional measures, the limit values according to category C2 or limit value class A, Group 1, are observed. Further, additional measures may be required, such as using an additional radio interference suppression filter (EMC filter).

The measures for EMC-compliant design of the system are described in detail in this manual respectively in the EMC Installation Guideline Configuration Manual.

The final statement regarding compliance with the standard is given by the respective label attached to the individual unit.

## Ensuring reliable operation

The manual describes a desired state which, if maintained, ensures the required level of operational reliability and compliance with EMC limit values.

Should there be any deviation from the requirements in the manual, appropriate actions (e.g. measurements) must be taken to check/prove that the required level of operational reliability and compliance with EMC limit values are ensured.

## Spare parts

Spare parts are available on the Internet at the following address  
(<https://www.automation.siemens.com/sow?sap-language=EN>).

## Product maintenance

The components are subject to continuous further development within the scope of product maintenance (improvements to robustness, discontinuations of components, etc).

These further developments are "spare parts-compatible" and do not change the article number.

In the scope of such spare parts-compatible further developments, connector/connection positions are sometimes changed slightly. This does not cause any problems with proper use of the components. Please take this fact into consideration in special installation situations (e.g. allow sufficient clearance for the cable length).