
SINAMICS S120 - Commissioning and Service - Basics (DR-S12-PM1)

Short Description

You are responsible for the commissioning of SINAMICS S120 drive systems using the commissioning software Starter. Modern converter systems offer a variety of functions and setting possibilities. By a purposeful procedure you can save time and avoid faults. In this course you will learn the procedure at commissioning step by step. You can handle parameter setting and data saving with the software Starter. By a correct parameter setting you support the reliable operation of the entire plant.

Objectives

After the course you can put the converter system SINAMICS S120 efficiently into operation. You can adapt the parameters of the closed-loop controller to the respective application and use the diagnostic tools in case of a fault. You will deepen your theoretical knowledge through numerous practice-oriented exercises in our remote learning environment with SINAMICS S120.

Target Group

Commissioning engineers.

Content

Design and functional principle of the converter system SINAMICS S120:

- Control unit, line infeed and motor modules
- Motors, encoders and interfaces

Parameterization, data backup and diagnostics using Software Starter:

- Online connection via PROFINET and Ethernet
- Project structure: drive objects and drive components
- Topology of the DRIVE-CLiQ-Interface

Function charts: setpoint channel, Input and output signals

Control signals and internal signal interconnection using BiCo-technology

Optimization of the closed loop control using automatic procedures

Functional principle of the operating modes Servo and Vector

Analysis of the operating status using enable signals, warnings and alarms

Monitoring of signals using the trace-function

Data exchange with SIMATIC S7 via PROFINET using PROFIdrive Standard Telegram

Consolidation of the contents through practice-oriented exercises in the remote learning environment with SINAMICS S120.

Prerequisites

Basic knowledge of electrical engineering.

Type

Face-to-face training

Duration

3 days

Language

en