

SINAMICS S120 - Parameterizing and Commissioning in TIA Portal (DR-S12-PMT)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

4 Days
2.6 CEUs

Target Group

- Engineer
- Maintenance
- Operator
- Programmer
- Commissioning

Short Description

In this course students learn to put the converter system SINAMICS S120 into operation using the PC-tool STARTDRIVE in the TIA Portal. Learners can adapt the parameters to the respective application and perform diagnostics in case of a fault.

Objectives

- Students are responsible for the commissioning of SINAMICS S120 drive systems using the commissioning software Startdrive in TIA Portal. 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 students will learn the procedure at commissioning step by step. Students can handle parameter setting and data saving with the software Startdrive in the TIA Portal. By a correct parameter setting, learners support the reliable operation of the entire plant. After the course students can put the converter system SINAMICS S120 efficiently into operation. Learners can adapt the parameters of the closed-loop controller to the respective application and use the diagnostic tools in case of a fault.

Content

- Control unit, line infeed and motor modules
- Motors, encoders and interfaces
- 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
- Introduction to positioning and Safety Integrated
- Data exchange with SIMATIC S7 via PROFINET using PROFIdrive Standard Telegram

- Practical exercises at training kits with SINAMICS S120 in frame size book size with servomotor and induction motor

Language

English

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