

SINAMICS G120 Parameterizing and Commissioning Course (DR-G12-PM)

Short Description

SINAMICS G120 allow the variable-speed operation of induction motors to drive pumps, fans, conveyor systems and many other machines. This course shows you how to handle the SINAMICS G120 inverter.

Objectives

After the course you are able to correctly commission the inverter and adapt it to address the particular application. You will know suitable inverter functions and parameter settings for a wide range of applications. You can make a data backup, and taking the appropriate measures when faults occur.

Target Group

Commissioning engineers
Service personnel

Content

Design and principle of operation of the SINAMICS G120 inverter with:

- Control Unit CU
- Power Module PM
- Parameterization, data backup and diagnostics with:
 - BOP-2 and IOP2 operator panels
 - TIA STARTDRIVE
- Setpoint channel and closed-loop control
- Control signals and signal interconnections
- Inverter functions

Practical exercises using the training device with:

SINAMICS CU240E-2 PN with PM 240 FS ASIMOTICS induction motor

- Design and principle of operation of the SINAMICS G120 control unit and power module
- Parameterization, data backup and diagnostics with:
 - BOP-2 or IOP-2 local operator panels and TIA STARTDRIVE
 - Setpoint channel and closed-loop control modes
 - Control signals and signal interconnections
- Communication with a S7-1200 plc using a fieldbus connection (Profinet)
- Axis position control using the CU250S-2 with encoder feedback
- Drive based safety integrated

Practical exercises using the training device with:

SINAMICS CU250S-2 PN, PM 240-2, SIMOTICS induction motor and S7-1200 plc.

Included in the course price: Free access to the digital learning platform [SITRAIN access](#) – starting one week before the start of the course until two weeks after the end of the course. Here you will find web-based trainings on [Name of curriculum or catalog](#) as well as other topics such as [Name of curriculum or catalog](#), [Name of curriculum or catalog](#) and many more. With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

Prerequisites

Basic knowledge of electrical engineering.

Some prior experience using TIA-Portal, for example Siemens TIA-SERV1, TIA-PRO1 or equivalent

Note

All these learning points are reinforced with practical 'hands-on' exercises.

The Learning Membership starts 7 days before the start of the course and ends 14 days after the end of the course. During this period, you have access to all of the more than 480 web-based trainings available.

Type

Face-to-face training

Duration

5 days

Language

en

Fee

3,180 GBP

