

## SINAMICS G120 - Parameterizing and Commissioning in the TIA Portal (DR-G12-PMT)

### Short Description

In order to be able to provide you with the best possible support and training in your personal learning environment (own office/home office), we have implemented selected training courses for you in the form of digital online training. With the help of our virtual learning environment for practical exercises, we provide you with live theory lectures from our expert speakers, which convey the training content described in the learning objectives in a practical and comprehensive manner. In our virtual classroom, our subject specialist is also available to you at any time during your individual practical exercises for in-depth questions and technical discussions. In this course you learn to commission the inverter and adapt the parameters. You can make a data backup, and taking the appropriate measures when faults occur.

### Objectives

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 using Software Startdrive within the TIA Portal. After the course you are able to be correctly commission the inverter and adapt it to address the particular application. You 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. You will deepen your theoretical knowledge through numerous practice-oriented exercises in our remote learning environment with SINAMICS G120.

### 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 IOP operator panels
- Software Startdrive in TIA Portal

Setpoint channel and closed-loop control

Control signals and signal interconnections

Inverter functions

Consolidation of the contents through practice-oriented exercises in the remote learning environment with SINAMICS G120.

### Prerequisites

Basic knowledge of electrical engineering.

Technical requirements:

For this training you need a computer with Windows7 or better Windows10 and a stable internet connection with 50MBit. As internet browser you need Google Chrome to access a virtual whiteboard and to use our TIA cloud solution well. Platform for this training is Microsoft Teams. We recommend installing the Microsoft Teams App for the best possible use of all functions.

### Note

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

### Type

Online-Training

### Duration

3 days

### Language

en