

## SINAMICS SM150 - Parameterization and Commissioning (DR-SM15-PM)

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### Objectives

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Medium voltage converters SINAMICS SM150 are used to drive motors in the megawatt power range.

A focused procedure when commissioning saves time and avoids critical faults. Correct commissioning supports reliable operation of the complete plant or system.

After the course you are able to quickly and efficiently commission the converters, and adapt parameter settings to address the various applications. You can optimize the controller settings, and in the case of faults, use diagnostic resources.

### Target Group

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Commissioning engineers

### Content

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Design and function of the SINAMICS SM150:

- Principle of an inverter with DC-link voltage
- Infeed, regenerative feedback and multi motor system
- Inverter in IGBT and IGCT design

Step-by-step commissioning of the converter, including switchgear and motor:

- Executing test and identification routines
- Optimizing and checking the current and speed controller, trace function

Parameterization, data backup and diagnostics with:

- TP900 Comfort Panel
- STARTER / SCOUT PC program

DRIVE-CLiQ topology, objects and components

Identifying the hardware using circuit diagrams

Determining the signal flow using function charts:

- Setpoint channel, inputs and outputs
- Interfaces with PROFIBUS and PROFINET

Checking the operating state and enable signals

Function and operation of cooling units, commissioning procedure

Notes regarding personal safety when working on medium voltage systems

Detailed exercises carried out at special low-voltage training units

### Prerequisites

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Experience with SINAMICS low voltage or medium voltage drives

Confident use of the STARTER commissioning software

The participant must be an electrically skilled person

### Note

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This course represents an important element of your overall training so that you can independently carry out commissioning or a service call. In addition, you require practical know-how when it comes to handling medium voltage units and systems. Generally, you learn this under the instruction of an experienced commissioning engineer locally on-site, or in the test field.

Dates on request.

Course also in German language available, please contact us.

Course also variable as online training, please contact us.

### Type

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Face-to-face training

### Duration

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8 days

### Language

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en