

SINAMICS S Setup and Maintenance (SCT-DVSNAM1A)

Global Reference

SINAMICS S120 - Parameterizing and Commissioning with STARTER (DR-S12-PM)

Type

Face-to-Face Learning

Duration and Continuing Education Units (CEU)

26 Hours over 4 Days
2.6 CEUs

Target Group

- Maintenance
- Engineer

Short Description

This course is intended to provide knowledge and skills related to the SINAMICS S drive as it pertains to commissioning, operation, configuration, maintenance, diagnostics, and troubleshooting. It is formatted as a combination of instruction and carefully structured, hands-on exercises aimed at developing job-related knowledge and skills.

Objectives

- Locate modules, terminals, options, and features on the SINAMICS S series drives
- Create an offline project in SINAMICS STARTER
- Connect with the Drive via STARTER
- Commission the Drive with STARTER for Servo Motors
- Take local control of a drive using the STARTER Control Panel
- Configure Analog, Digital, and Comm. I/O
- Configure, Trace, and Evaluate BICO connections in the drive control logic
- Use Device Trace to monitor signals
- Use STARTER tools to troubleshoot and correct Topology errors
- Perform required Drive optimizations - servo
- Commission the Drive with STARTER for Induction Motors
- Perform required Drive optimizations - vector
- Configure the Setpoint channel
- Evaluate and configure operating states, alarms and fault codes
- Activate and Configure the Basic Positioner
- Set the Basic Positioner Home Position
- Traverse the axis with a traversing program
- Configure and test S7 communications between an S7 PLC CPU and S120 Drive via PROFIBUS

Content

- S120 Fundamentals and Overview

- SINAMICS STARTER
- S120 Control Units and Additional System Components
- STARTER connection to target device
- Line and Motor Modules
- Control Word, Setpoint, and Device Trace
- S120 Topology
- Chassis and Cabinet Power Units
- Closed Loop Control - servo
- Closed Loop Control - vector
- Setpoint Channel
- Diagnostics
- Basic Positioner
- S120 Communication
- Further Drive Functions

Recommended Prerequisites

[20 AC Motor Basics: SCT-DVOLACMBG1A](#) AND [24 AC Drive Basics: SCT-DVOLACDBG1A](#)

Language

English

Course descriptions are Siemens Intellectual Property and copyright protected. Do not modify without written permission from SITRAIN US. ©2023 Siemens Industry, Inc.