

SINAMICS S120 - Diagnostics PROFINET and PROFIBUS (DR-S12-NET)

Ziele

Your drive and automation devices communicate using PROFINET or PROFIBUS DP. If there are errors in communication, various causes need to be considered, such as unsuitable cabling, faulty plug contacts, incorrect parameterization or electromagnetic influences. Sporadic errors are particularly difficult to investigate.

In this course, you will learn how to troubleshoot using integrated diagnostics functions and how to remedy these faults. You will be get to know the appropriate measures to ensure continuously reliable operation. For complicated cases, you will know how to use special measuring devices to identify the cause of faults.

Zielgruppe

Commissioning engineers
Service personnel
Maintenance personnel

Inhalte

Interfaces of the SINAMICS Control Units to the network and the PC
Configuration of the network in HW Config and NetPro
PROFIdrive: Process data and telegram structure
Isochronous mode: Properties and parameterization
Monitoring communication data with STARTER and STEP 7
Recording communication data using the trace function
Diagnostic options in SINAMICS and SIMATIC
Diagnostics over the Internet using integrated web server
Physical characteristics of PROFINET and PROFIBUS
Electromagnetic compatibility EMC:

- Causes and effects of faults
- Measuring disturbance variables
- Measures for resolving faults

Data analysis in the network:

- Data packets and network control
- Recording/tracing and evaluating diagnostics telegrams

Practical exercises with SINAMICS S120 with PROFINET and PROFIBUS

Teilnahmevoraussetzung

Good knowledge of SINAMICS in accordance with the courses on commissioning DR-S12-PM (formerly DR-SNS-SI) or maintenance DR-S12-DG (formerly DR-SNS-IH).

Knowledge of SIMATIC S7 in accordance with the ST-PRO1 or ST-SERV1 courses.

Typ

Präsenztraining

Dauer

3 Tage

Sprache

en