

SINAMICS S120 - Parameterizing and Optimization (DR-S12-OPT)

Ksa tanm

In this course you learn to optimize control structure of the drive system SINAMICS 120. Therefore you gain the highest dynamics of the drive axis.

Hedefler

You already know the control structure of the drive system SINAMICS 120 and use the automatic optimization as well as the trace function. In this course you learn how you reach the highest dynamics of the drive axis even at critical applications. After the course visit you understand the interplay of mechanics, motor and drive converter. You can examine the system by means of frequency analysis and parameterize filters against unwanted vibrations correctly. Also you achieve a stable load balancing of mechanical coupled axes.

Hedef Kitle

Commissioning engineers
Engineering personnel

çerik

Control system types overview
System identification in time domain and frequency domain, Laplace transformation
Frequency response, Nyquist and Bode diagram,
Stability criteria
Tuning methods of current, speed and position controller: Heuristic, gain optimum, symmetric optimum, linear optimum
Reference model
Controller adaptation and linearization
Feed forward control, friction characteristic, symmetry filter
Application examples for tuning of:
▪ Two mass systems and multi mass systems
▪ Load balancing of mechanically coupled drives
Practical exercises at SINAMICS S120 with SIMOTICS synchronous motors

Katımcı önkoullar

Good knowledge of parameterization and commissioning of SINAMICS S120 in accordance with course DR-S12-PM (formerly DR-SNS-SI).

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 [SINAMICS Converters](#) as well as other topics. 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.

Not

none

Tip

Sıfırdan itibaren

Süre

5 gün

Dil

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