

Sinamics frequency inverter g120

Content

- Basics of frequency inverter technology.
- Structure and functions of the SINAMICS G120 drive system.
- Commissioning and parameterization via the operator panel (IOP).
- Commissioning via Startdrive in TIA Portal.
- Function diagrams, setpoint channel.
- Analog inputs / analog outputs.
- Digital inputs / digital outputs.
- Communication with PROFINET.
- SINAMICS G120 as device on PROFINET.
- Parameterization SINAMICS G120 via PROFINET.
- Troubleshooting SINAMICS G120 via PROFINET.
- Diagnosis and troubleshooting.
- Signal analysis with device trace.
- Inverter functions (BICO technology, speed control, motor protection).
- Encoder systems (HTL, TTL, absolute encoder).
- Positioning with Epos.
- Safety Integrated functions.
- Drive-internal interface DRIVE-CLiQ.
- Data backup (project comparison, archiving).

Description

This course provides a comprehensive understanding of the SINAMICS G120 drive system, including its structure, functions, and parameterization. You will gain proficiency in utilizing the Startdrive software within the TIA Portal environment. Through practical exercises, you will learn to configure technology functions for speed control, positioning using EPOS, and utilize integrated safety features. Troubleshooting techniques will also be covered. Additionally, you will explore different encoder systems and discover how to exchange data via PROFINET. The course emphasizes hands-on learning, enabling you to immediately apply your theoretical knowledge to practical exercises using the SINAMICS G120 system. Upon completion, you will have the skills to effectively utilize the system's various inverter functions, efficiently troubleshoot faults, optimize control, and achieve optimal results when working with the SINAMICS G120 system.

Target group

Project planners, programmers, commissioning engineers, maintenance engineers.

Requirements

Basic knowledge of automation technology, Tia Portal and fundamentals of drive technology desirable.

Type of course

- Presence Training
- Online Training with Hardware
- Online Training without Hardware

Course Duration

- One training hour FREE of charge.
- 15 hours in 3-4 days for Presence Training
- 15 hours in 3-4 days for Online Training with Hardware
- 12 hours in 3-4 days for Online Training without Hardware

Course language

- English language
- German language
- Arabic language

Price

- Enjoy our ONE FREE TRAINING SESSION
- 200 euros for Presence Training
- 100 euros for Online Training with Hardware
- 50 euros for Online Training without Hardware
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Payment currency

- Euro
- Dollar
- EGP.

Dates of the courses

June <ul style="list-style-type: none">- 02.06. - 05.06.2023 (3 p.m. - 8 p.m)- 09.06. - 12.06.2023 (3 p.m. - 8 p.m)- 16.06. - 19.06.2023 (3 p.m. - 8 p.m)- 23.06. - 26.06.2023 (3 p.m. - 8 p.m)	July <ul style="list-style-type: none">- 07.07. - 10.07.2023 (3 p.m. - 8 p.m)- 14.07. - 17.07.2023 (3 p.m. - 8 p.m)- 21.07. - 24.07.2023 (3 p.m. - 8 p.m)- 28.07. - 31.07.2023 (3 p.m. - 8 p.m)
August <ul style="list-style-type: none">- 04.08. - 07.08.2023 (3 p.m. - 8 p.m)- 11.08. - 14.08.2023 (3 p.m. - 8 p.m)- 18.08. - 21.08.2023 (3 p.m. - 8 p.m)- 25.08. - 28.08.2023 (3 p.m. - 8 p.m)	September <ul style="list-style-type: none">- 01.09. - 04.09.2023 (3 p.m. - 8 p.m)- 08.09. - 11.09.2023 (3 p.m. - 8 p.m)- 15.09. - 18.09.2023 (3 p.m. - 8 p.m)- 22.09. - 25.09.2023 (3 p.m. - 8 p.m)
October <ul style="list-style-type: none">- 06.10. - 09.10.2023 (3 p.m. - 8 p.m)- 13.10. - 16.10.2023 (3 p.m. - 8 p.m)- 20.10. - 23.10.2023 (3 p.m. - 8 p.m)- 27.10. - 30.10.2023 (3 p.m. - 8 p.m)	November <ul style="list-style-type: none">- 03.11. - 06.11.2023 (3 p.m. - 8 p.m)- 10.11. - 13.11.2023 (3 p.m. - 8 p.m)- 17.11. - 20.11.2023 (3 p.m. - 8 p.m)- 24.11. - 27.11.2023 (3 p.m. - 8 p.m)
December <ul style="list-style-type: none">- 01.12. - 04.12.2023 (3 p.m. - 8 p.m)- 08.12. - 11.12.2023 (3 p.m. - 8 p.m)- 15.12. - 18.12.2023 (3 p.m. - 8 p.m)- 22.12. - 25.12.2023 (3 p.m. - 8 p.m)	

You can also request other dates by sending an E-mail to:

info@controbyte.com

Registration for the course

To book a course, you can send us a booking request directly by email with the course title and your desired date. We will process your request as soon as possible and contact you.

E-Mail: info@controbyte.com

Do you have questions or would you like advice on which training is right for you? Call us directly or send us an e-mail. Your personal contact persons will be happy to advise you!

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