

Modular motion control drives for complex tasks

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SINAMICS S120 Built-In Units

The flexible, modular drive system for sophisticated applications

Overview

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> SINAMICS S120 – Description

SINAMICS S120 modular motion control drives are designed for high performance drive applications in mechanical and systems engineering. With Siemens high performance drive capabilities, you get a range of coordinated components and functions as a complete motion control drives package. Our motion control drives include high-performance single drives and coordinated drives (multiple-axis applications) with vector or servo functionalities that allow implementation of customized high performance drive solutions. With SINAMICS S120 motion control drives, you get a high performance drive that is flexible and increases productivity. In addition to an innovative system architecture and digital communication options, our motion control drives provide efficient engineering and quick commissioning resulting from innovative tools and simple wiring. The motion control drives in the SINAMICS S120 high performance drive range deliver performance from 0.12 to 4,500 kW and come in a variety of designs and cooling types.



SINAMICS S120

> SINAMICS S120 – a brief Summary of its Strengths

- The servo drive is the perfect basis for modular system and machine concepts
- Innovative system architecture and digital communication options
- Broad range of control modes and drive-specific technology functions
- Safety functions built into the motion control drives
- Efficient engineering and quick commissioning with SIZER drive sizing and STARTER commissioning tools
- Auto-configuration and auto-tuning of controls
- Uncomplicated, integrated solutions using Totally Integrated Automation (TIA)
- Integration of SINAMICS through to automation level
- Integrated SINAMICS S120 web server

> SINAMICS S120 – Technical Data

Voltage and power ranges:	0.12 - 4,500 kW/230 V, 380 - 480 V and 500 - 690 V (50/60 Hz)
Control principle:	V/f open-loop control/Vector control, with/without encoder/Servo control, with/without encoder
Ratings depend on design and type of the motion control drives	

SINAMICS S120 – Typical Uses

Whether it is a continuous goods transport line or synchronized and highly dynamic process, the high performance drive products from Siemens deliver every time and in many industrial applications including: packaging machines, printing presses, lifting gear, plastic machines, mill trains and test rigs, textile machines, machine tools, paper machines, handling and assembly systems.

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All about SINAMICS S120 Built-In Units

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Details about SINAMICS S120

- > [SINAMICS S120 - system architecture](#)
 - > [SINAMICS S120 - Highlights](#)
 - > [SINAMICS S120 - Webserver](#)
 - > [SINAMICS S120 - Safety Integrated](#)
 - > [SINAMICS S120 - Cooling Concept](#)
 - > [SINAMICS DRIVE-CLiQ](#)
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Specific Variants SINAMICS S120

- > [Distributed Servo drive SINAMICS S120M](#)
 - > [SINAMICS S120 Combi for SINUMERIK 828D BASIC T](#)
 - > [Cabinet Modules SINAMICS S120 CM](#)
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 - > [Application examples](#)
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SINAMICS Application Examples
For every task the right solution

> [more infos](#)

Tools

- > [Drive Technology Konfigurator](#)
 - > [Drive Design Tool SIZER](#)
 - > [STARTER drive commissioning tool](#)
 - > [Energy-saving tool SinaSave](#)
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Related topics

- > [SIMOTION Motion Control System](#)
- > [SINUMERIK CNC Automation System](#)