SIEMENS

EASY. WISE. RELIABLE.

SINAMICS G200

Driving next generation standard applications.
siemens.com/sinamics-g200



Next Generation

SINAMICS G200

Driving next generation standard applications



Industrial applications face growing demands for shorter engineering cycles, greater operational efficiency, reliable performance, and support long-term competitiveness.

SINAMICS G200 joins the next generation of SINAMICS portfolio, designed for a wide range of standard applications across industries. Built to be easy, wise, and reliable. it streamlines selection, commissioning, and integration while delivering robust performance, integrated safety, and global compliance.

Meet SINAMICS G200 – where easiness meets performance.

Scan this code or click on this link for more information

siemens.com/sinamics-g200



Easy

Fast selection, intuitive commissioning, and reduced engineering effort.

Wise

Seamless integration and optimized functionality for flexible, cost-efficient solutions.

Reliable

Stable performance with integrated safety, global standards compliance, and proven reliability.

EASY BY NATURE

Engineering and commissioning often remain complex, with steep learning curves and high effort at every stage. SINAMICS G200 changes that — engineered to simplify every step from selection and setup to daily operation. With straightforward integration and an intuitive user interface, it delivers maximum efficiency and lets you focus on what matters most: your industrial processes.

Operator panels (SDI Lite, SDI Pro) for local parameterization

Integrated web server for browser based commissioning and diagnostics

Wi-Fi access via SINAMICS Smart Adapter for wireless commissioning



Effortless Commissioning & Diagnostics

Simplify your setup and maintenance with the intuitive commissioning and diagnostics tools to save time, reduce complexity, and minimize engineering effort for your industrial operations.

Startdrive in TIA Portal for integrated engineering

Drive Control Chart (DCC) for flexible application customization

Discover more about SINAMICS DCC in SINAMICS Startdrive

Easy Selection & Ordering

Single MLFB reduces complexity and saves time. Siemens Product Configurator enables fast, easy configuration of drive products and components such as motors, converters, controllers, and connection systems.

Consistent Experience & Reduced Learning

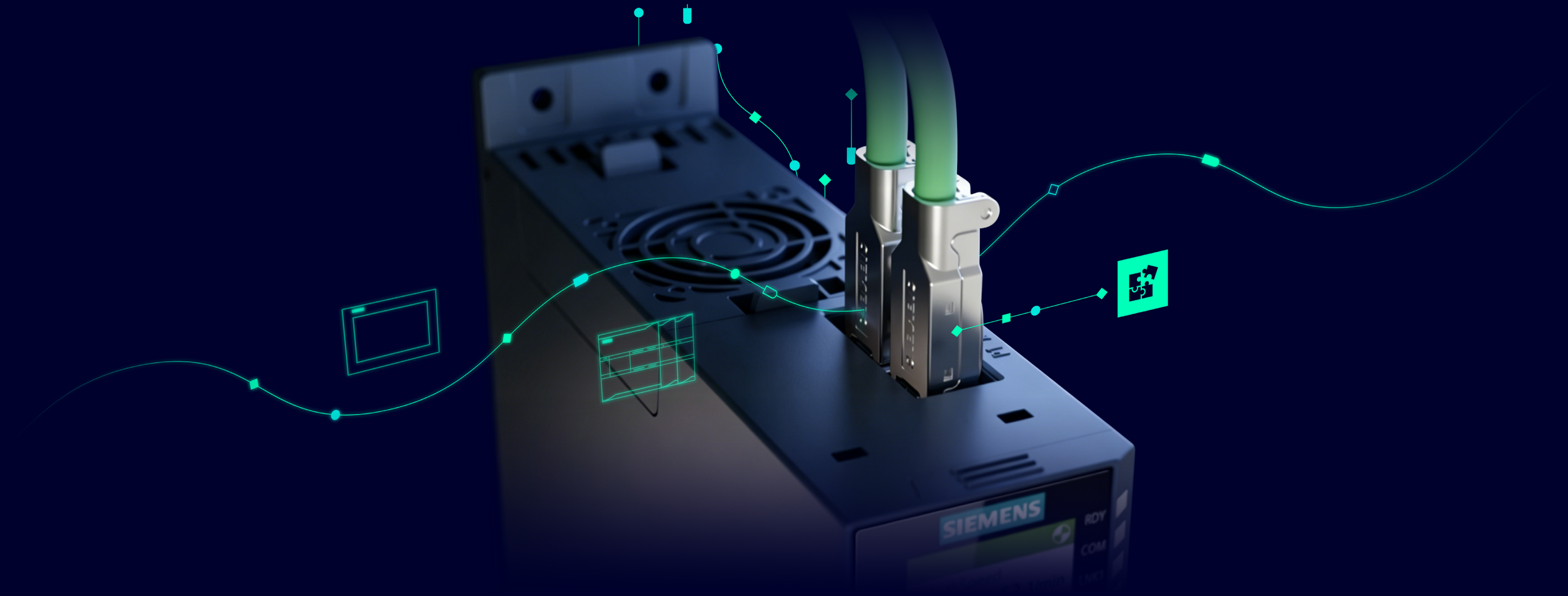
The integrated next generation portfolio ensures non-repetitive learning, reducing training time and promoting efficient operation across your entire drive fleet.

WISE BY VALUE

Rising demands for energy efficiency, compact design, and application flexibility are driving system complexity — often requiring additional components, greater engineering effort, and higher costs. SINAMICS G200 addresses this challenge with seamless integration into your existing system, reducing complexity while supporting flexible and scalable machine design.

Seamless Integration

Integrate seamlessly into existing automation systems with native PROFINET communication and direct SIMATIC PLC and HMI integration. One standardized network architecture simplifies engineering while enabling reliable operation, fast data exchange, and scalable machine design.





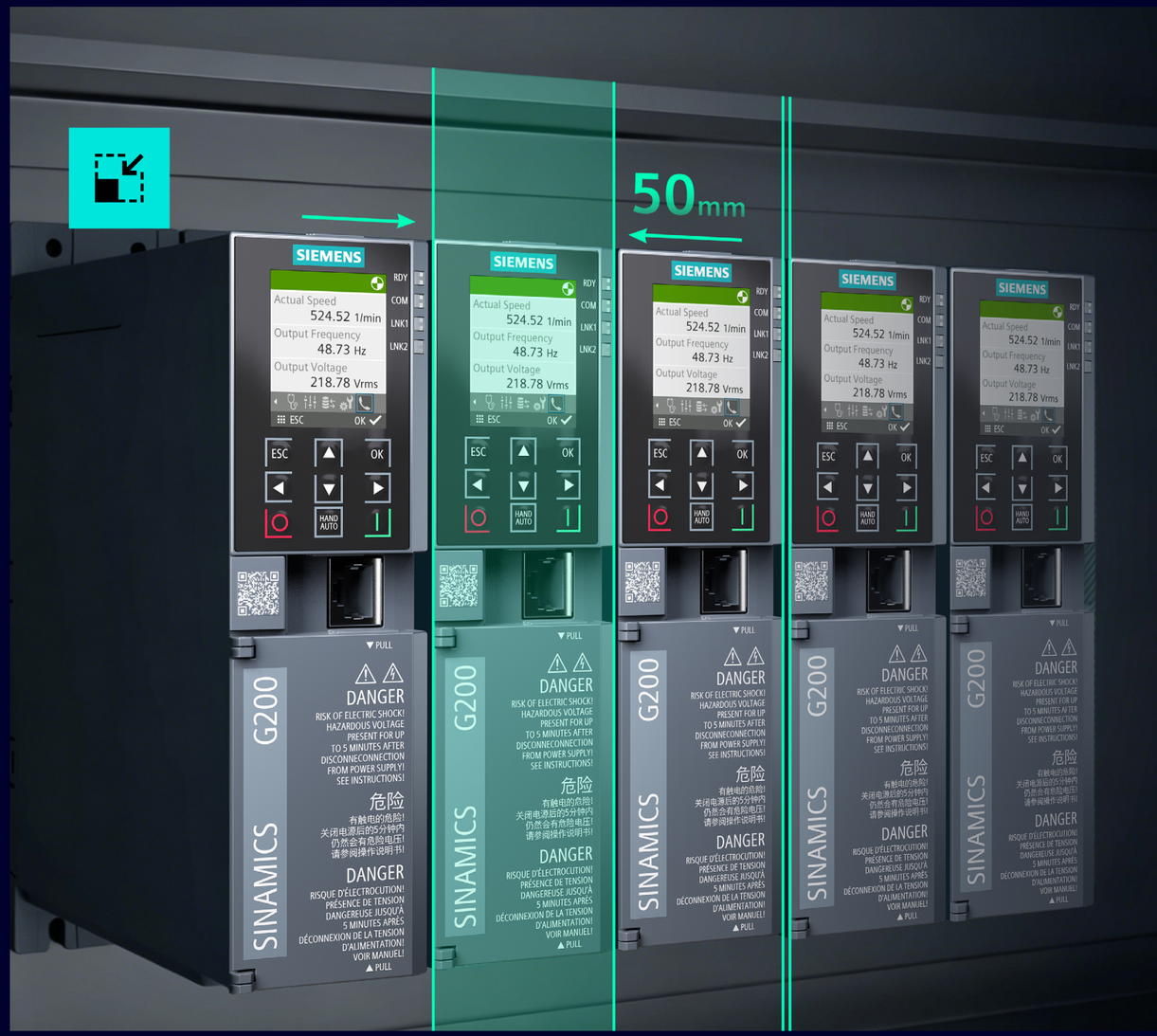
Low-Consumption Operations for a Sustainable Future

SINAMICS G200 natively supports IE4/IE5 ultra-high-efficiency motors (ASM, PMSM, SRM), reducing motor energy consumption compared to standard IE2/IE3 motors. ECO Mode automatically optimizes voltage and flux during partial and idle loads, reducing energy losses during low-demand operation. The result: lower power consumption and utility costs without compromising performance.

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Optimal Space Utilization

Compact 50mm design allows side-by-side installation with just 3mm spacing, enabling more drives per cabinet. Integrated EMC filters and braking chopper reduce external components and simplify wiring.



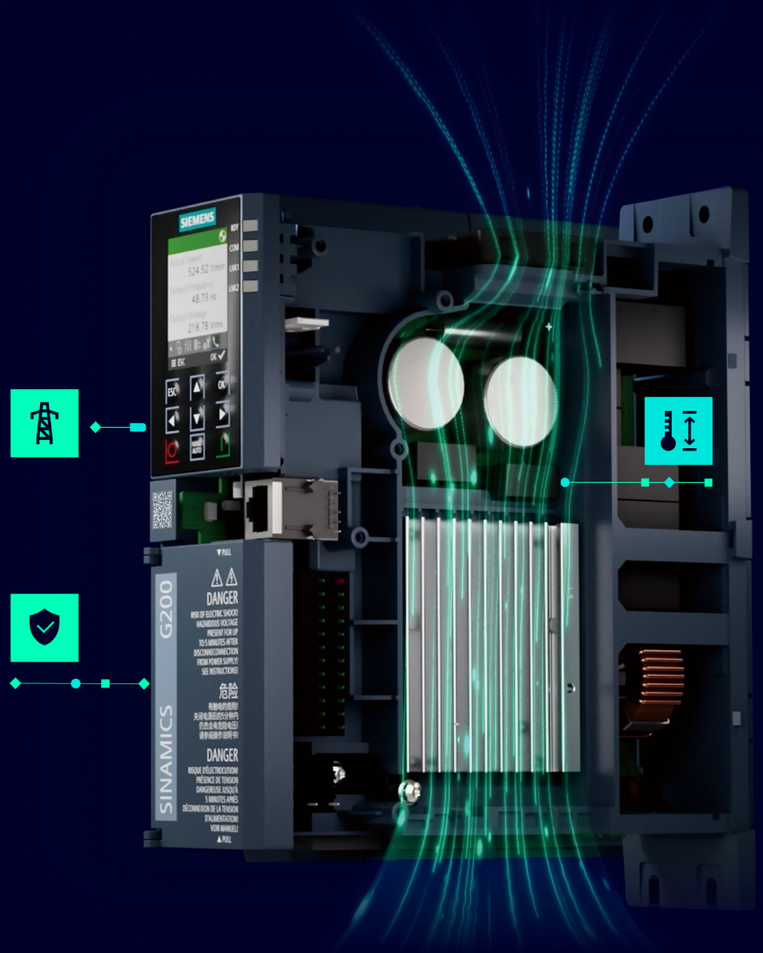
RELIABLE BY PROOF

As safety and compliance requirements grow and harsh environments increase the risk of downtime, system complexity keeps rising. SINAMICS G200 turns this challenge into confidence — integrating safety and security by design to simplify engineering and ensure global compliance. Certified safety functions and built-in cyber security safeguard people, equipment, and data, minimizing risk and maximizing uptime.

Integrated Safety & Security for People, Plant and Data

Integrated safety functions STO and SS1-t up to SIL 3, PL e / Cat. 4 ensure safe operation, while integrated cyber security with user management control and secure communication helps protect equipment, data, and automation processes.





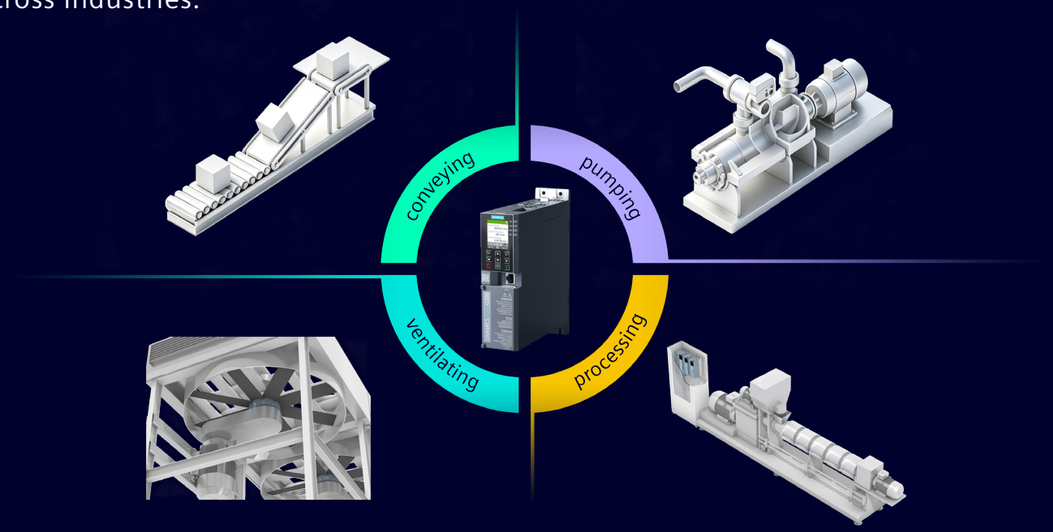
Engineered to Endure

Engineered for demanding environments, SINAMICS G200 features 3C2 coating and C3 EMC level for enhanced protection and electromagnetic compatibility.

An independent air duct for PCB cooling ensures reliable thermal management and consistent performance, even under harsh conditions.

Tailored for Standard Applications

From material conveying to pumping, ventilating, compressing and processing, SINAMICS G200 simplifies standard applications across industries.



Consumer Packaged Goods

SINAMICS G200 suits the Consumer Packaged Goods (CPG) industry due to its high reliability, PROFINET communication, easy commissioning and seamless TIA integration. It efficiently drives conveyors, fans, pumps, and mixers used in processing and packaging. The standardized design, integrated safety, energy efficient operation, and webserver connectivity simplify deployment and tackles various applications in the fast-changing CPG industry.



Typical machine types

- Conveyor systems in packaging lines
- Bottling and filling machines
- Bakery / food processing lines
- Mixing and dosing equipment
- Pumping and ventilation systems

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Intralogistics

SINAMICS G200 suits intralogistics applications due to its compact design, easy commissioning and seamless TIA integration. It efficiently drives conveyors, sorters and lifting systems used in material handling. The standardized design, integrated safety, energy-efficient operation with support for IE4/IE5 motors operation and web server connectivity simplify deployment and ensure reliable, continuous operation in high-throughput logistics environments.

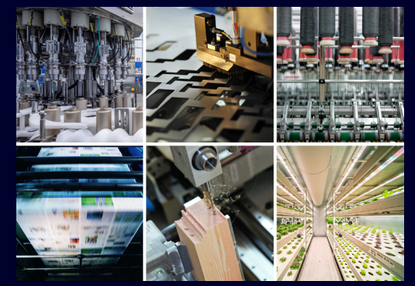


Typical machine types

- Conveyor systems (belt, roller, modular conveyors)
- Sortation systems (cross-belt, tilt tray)
- Lifting units (vertical conveyors, lifts, hoists)
- Transfer units (turntables, cross-transfer conveyors)

General Machinery

SINAMICS G200 suits general machinery due to its cost efficient performance, compact design, ease of use, and robust operation. Its standardized design, integrated safety and scalable functionality simplify engineering and reduce hardware and integration effort, enabling highly economical solutions across diverse industries and machine types. Compliance with global standards supports OEMs in expanding to international markets.



Typical machine types

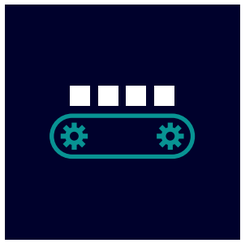
- Pumping and water treatment systems
- Air compressors and HVAC fans
- Conveyor systems (belt, roller, chain)
- Mixers and agitators
- Dryers and processing equipment

Technical Data



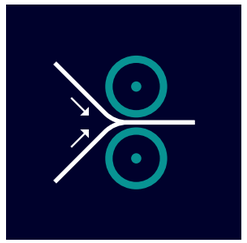
Pump, Fan, Compressor

Energy-efficient control for pumps, fans, and compressors with improved reliability and simplicity.



Moving

Reliable and flexible conveyor control with smooth operation and easy system integration.



Processing

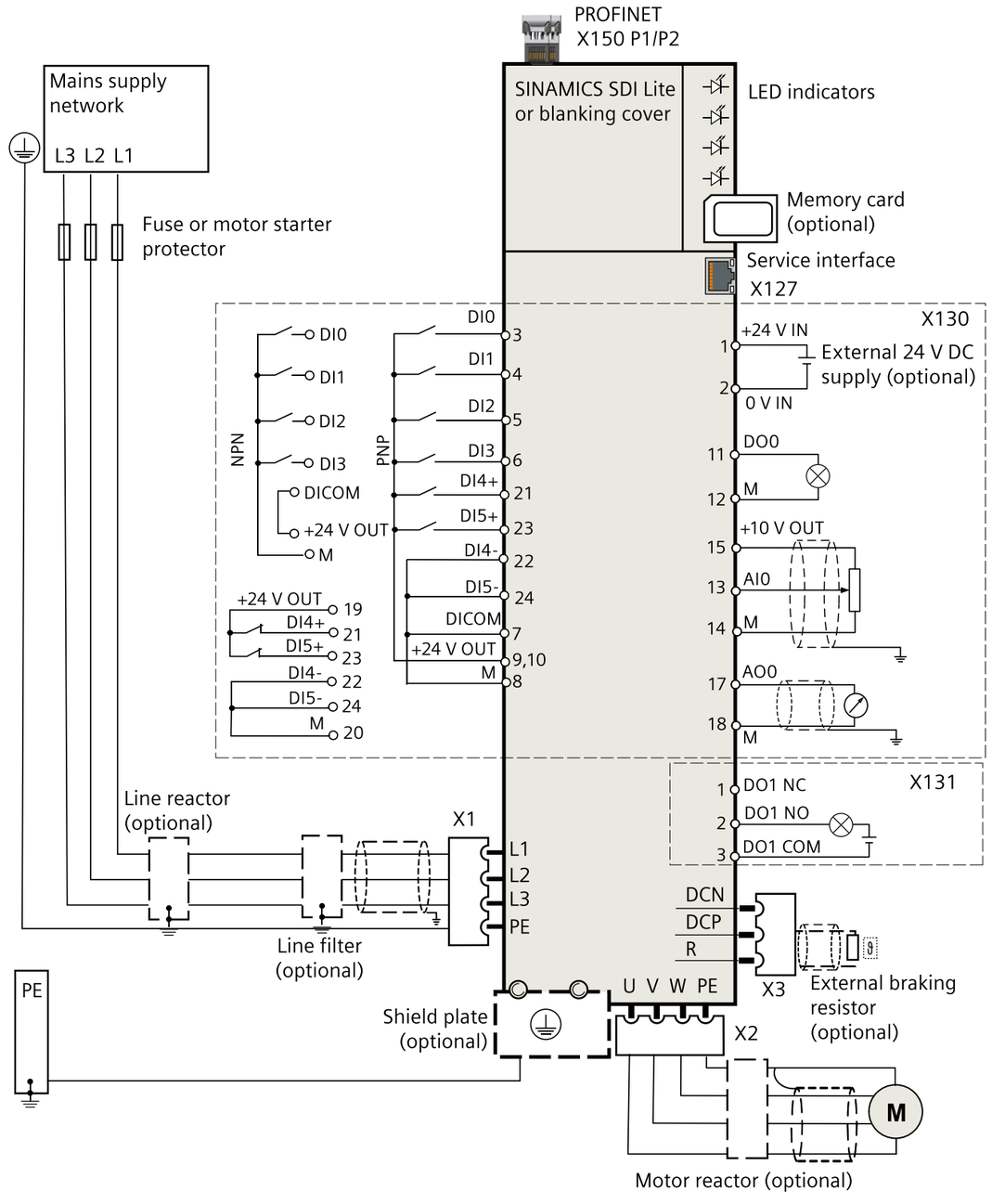
Stable drive control for processing applications with consistent performance and easy commissioning.

Technology overview

Supply voltage / Power range	3 AC 200 ... 240 V, - 20% / +10%: 0.55 - 4 kW (0.75 - 5 HP) 3 AC 380 ... 480 V, - 20% / +10%: 0.55 - 11 kW (0.75 - 15 HP)
Input frequency	50 / 60 Hz (47 ... 63 Hz)
Degree of protection	IP20 according to IEC 60529 or UL open type
Cooling type	Air cooling with an integrated fan
Ambient temperature	–20 ... +45 °C, up to +60 °C (with derating)
Installation altitude	≤ 1000 m above sea level without derating 1000 m ... 4000 m above sea level with current derating
Motor types supported	Induction motors, PMSM, synchronous reluctance motors
Motor control	U/f, FCC, ECO, Vector control (speed) w/o encoder
Overload capability	HO: 150 % for 60 s / 300 s LO: 110 % for 60 s / 300 s
Braking	Integrated braking chopper
Motor cable length	Up to 50 m shielded / 100 m unshielded
Inputs / outputs	4 DI, 1 F DI (can be reused as 2 DI), 1 AI, 1 DO, 1 AO, 1 relay output
Communication	PROFINET
Commissioning / engineering	Integrated web server, TIA Portal / Startdrive
Safety functions	Integrated: Safe Torque Off (STO), Safe Stop 1 (SS1-t) SIL 3, PL e, Cat. 4 via terminals
EMC	Unfiltered (UF) or EMC category C3
Certifications	CE, UL, UKCA, EAC, KC, RCM

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Wiring Diagram



Hardware / Software Options

Hardware Component

Operation Panel

6SL4950-0AH21-2AA0



SINAMICS SDI Lite

6SL4950-0AH35-2AA0



SINAMICS G220 SDI Pro 5.5

Additional Components

6SL4950-0AJ00-0AA0



SINAMICS Smart Adapter

Wi-Fi solution for the next generation of SINAMICS converters

Mechanical Option Parts

6SL4960-0AE11-0AA0



Shield Plate kit for FSA1

6SL4960-0AE12-0AA0



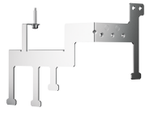
Shield Plate kit for FSA2

6SL4960-0AE13-0AA0



Shield Plate kit for FSA3

6SL4960-0AE14-0AA0



Shield Plate kit for FSB1

6SL4900-0AM80-0AA0



DIN-rail mounting kit for FSA1 & FSA2*

SINAMICS Drive Software Options for SINAMICS G200

6SL5977-0AA00-1GA0

SINAMICS OPC UA Single Extended*
Seamless connectivity for next generation applications

6SL5977-0AA00-2FA0

SINAMICS Drive Control Chart Extended (license)*
Flexible software tool with graphical programming up to 100 blocks

* Planned for next step

Configured Drive Concept

MLFB Structure

1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16
6	S	L	4	5	1	X	-	0	C	A	X	X	-	X	X	F	0

Line voltage
- 3: 3AC 380-480V
- 2: 3AC 200-240V

Protection class, Coating
- C: IP20, 3C2

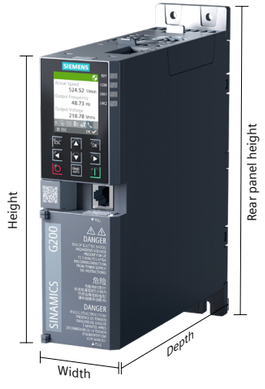
Power range
- 05: 0.55kW
- 06: 0.75kW
- 08: 1.1kW
- 10: 1.5kW
- 11: 2.2kW
- 12: 3kW
- 13: 4kW
- 15: 5.5kW
- 16: 7.5kW
- 17: 11kW

HW option
- A: With panel
- Y: Without panel

EMC
- 0: Unfilter
- 3: EMC C3 filter

Fieldbus communication
- F: PROFINET

Dimensions



	FSA1	FSA2	FSA3	FSB1
3 AC 200 V ... 240 V	0.55 kW	0.75 ...1.5 kW	2.2 ... 3 kW	4 kW
3 AC 380 V ... 480V	0.55 ... 1.1 kW	1.5 ... 3 kW	4 ... 5.5 kW	7.5 ... 11 kW
Height of the drive	171mm	171mm	196mm	196mm
Rear panel height	205mm	205mm	230mm	230mm
Width	50mm	73mm	73mm	100mm
Depth	170mm	170mm	205mm	205mm

ID link and Siemens Online Support

Product-specific information via ID link

The QR code on your product and on the product packaging contains the ID link. ID link is a globally unique identifier according to IEC 61406-1. You can use the ID link to access product data, manuals, Declarations of Conformity, certificates and other information about your product.



QR code with ID link included

Content of Siemens Online Support

- Product support
- Global forum for information and best practice sharing between users and specialists
- Local contact persons via the contact person database
- Product information
- FAQs (frequently asked questions)
- Application examples
- Manuals
- Downloads
- Compatibility tool
- Newsletter with product selection
- Catalogs/brochures
- Certificates

Service offerings

To ensure that you are benefiting as much as possible from your SINAMICS G200, we offer a variety of services – from technical support and repairs to extended coverage options. The most comprehensive offering is Service Protect, which includes 8 years of extended warranty.

Warranty

24month Standard warranty

+6 months Free of charge with product registration

+3 years Extended coverage

+5 years Extended coverage

Register now and take advantage of our premium service package for 6 months.
https://myregistration.siemens.com

Technical Support

- Online support: Siemens SiePortal
- Siemens Industry Online Support APP
- Siemens contact person database: Contact Database - Siemens AG

Spare & Field service

- Spare part exchange as standard, Spares on Web - Siemens AG (e.g., fan, SDI, connectors, shield plate...)
- Field service worldwide

Siemens Industry Online Support App

Product registration

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