

SINAMICS S210

Siemens EcoTech Profile

Versatile. Precise. Safe.



Minimum material use

Design optimization led to reducing the required active cooling components.



Energy efficiency

The introduction of a common DC bus in 3AC variant improves energy efficiency by redistributing braking energy to other components.



Durability / Longevity

Improved overload performance to precisely adapt to more use-phase scenarios.



Maintenance possible / Updatability

Optimized design makes installation, commissioning and maintenance efficient and secure.



Upgradability

Various upgrade methods are available to make the process convenient.



Compliant with substance regulations

Protect people and environment by avoiding substances of concern.



EPD Type II or Type III available

The Environmental Product Declaration (EPD) provides transparency on the environmental impact of the product throughout its life cycle. Type II according to ISO 14021 including Life Cycle Impact Assessment (LCIA). Type III verified and certified according to ISO 14025.



Scan for [Environmental Product Declarations \(EPD\)](#) and further technical information.

Siemens
EcoTech



Range of application

This Siemens EcoTech Profile is valid for all products in the range of SINAMICS S210 .

Further information on the product

Sustainable materials:



Minimum material use

- The improved thermal design compared to predecessor eliminates the need for fans in the 1AC variants and reduces the weight by up to **2.5%**, saving mainly plastic.
- Laser labels replace physical product labels in the 3AC variants resulting in less material consumption.

Optimal use:



Energy efficiency

- Compared to predecessor, the 3AC variant can now couple up to **6 axis** in a DC-Link coupling for efficient energy distribution.



Durability / Longevity

- Up to **350%** overload capability, **1.75** times greater than predecessor.
- Maximum permissible output current reaches **100%** at 50°C and 1000m altitude, vs. 85% for the predecessor.



Maintenance possible / Updatibility

- **One cable connection** reduces installation time and cleaning effort.
- **UMAC** integrated to protect the machine by restricting access to authorized users.

Value recovery:



Upgradability

- Functional upgrades can be achieved by updating the firmware.
- The device supports easy firmware upgrades via **SD card**, **web server** or **Startdrive**.

Our production facilities

Our goal is clear: All Siemens production facilities and buildings worldwide are to achieve a net zero-carbon footprint by 2030. Today, all Siemens EcoTech products are manufactured in production facilities using **100% renewable electricity**.

And the ambitions go much further. The management systems implemented in our production facilities reduce the environmental impacts of our sites. Furthermore, we ensure fair treatment and respect for our people. More information about the 360° view on Siemens' sustainable transformation: [Learn more about our DEGREE framework](#)



Scan for more information on the [Siemens EcoTech framework](#)



TÜV Rheinland has independently validated the assessing methodology behind this product sheet's data evaluation according to ISO 14020 and 14021 standards.

Our Robust Eco Design process

The Siemens Robust Eco Design (RED) approach provides the foundation for integrating Ecodesign systematically into our product development and allows us to derive Ecodesign specifications that are advantageous from an environment point of view while meeting our own sustainability goals as well as those of our customers and suppliers. The RED approach involves three phases:

Application perspective

Definition of relevant product families, identification, and prioritization of Ecodesign requirements from stakeholder expectations.

Solid foundation

LCA-based assessment of environmental impacts for representative products along the entire life cycle, communicated via EPD.

Dematerialization

Evaluation of quantitative environmental impacts of Ecodesign and of further requirements, derivation of improved design specifications wherever reasonable.

