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SINAMICS S200

Siemens EcoTech Profile

Performance-optimized, Easy to use, Fit for future

Minimum material use
More compact frame size compared to the previous-generation product with the same power rating substantially reduces material use.

Packaging
Plastic packaging has been reduced.

Durability / Longevity
Robust and reliable mechanical and electrical design, and long service life leads to high reliability.

Maintenance possible / Updatability
Optimized design makes maintenance, commissioning and operation more convenient, efficient and reliable.

Ease of Disassembling / Circularity Instructions
Optimized design makes disassembly and recycling more efficient and convenient.

Compliant with substance regulations
Protect people and environment by avoiding substances of concern.

EPD Type II available
According to ISO 14021 including Life Cycle Impact Assessment (LCIA).
The Environmental Product Declaration (EPD) provides transparency on the environmental impact of the product throughout its life cycle (e.g. Product Carbon Footprint (PCF) data).

Scan for Environmental Product Declarations (EPD) and further technical information.

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Range of application
This Siemens EcoTech Profile is valid for all variants in the product family of SINAMIC S200.

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Further information on the product

Sustainable materials:

Minimum material use

Compared with the previous-generation product of the same power rating:

- Reduction of die-casting parts: **12-28%** (variant dependant).
- Reduction of plastic housing parts: **19-39%** (variant dependant).

Packaging

- Removed PE bag for accessories.
- Changed the main rating plate from paper label to a laser-etched marking on the plastic housing, further reducing paper and ensuring permanence of the label.

Optimal use:

Durability / Longevity

- The fanless design of the 200 V variant has improved reliability and usability.
- The design standards, especially those for EMC, are **1.5 to 2 times** higher than IEC 61800-3 Version 2012 (for example, the voltage requirement for fast transient burst testing on AC supply was increased from **2 kV** to **4 kV**) which offers better product robustness and reliability.

Maintenance possible / Updatability

Compared with the previous-generation product:

- All connectors are plug-in connectors increasing wiring efficiency by more than **50%.**
- The **Web Server** guides you though the commissioning procedure step by step, without separate software installation.

Value recovery & circularity:

Ease of Disassembling / Circularity Instructions

- Laser-etched main rating plate instead of self-adhesive label makes disassembly and recycling easier.
- The disassembly of the converter can be done with only **1 screwdriver (T10)**, making disassembly more efficient and convenient.

Recyclability

- An overall product recyclability of up to **53%** mainly due to high metal content.

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

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.

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