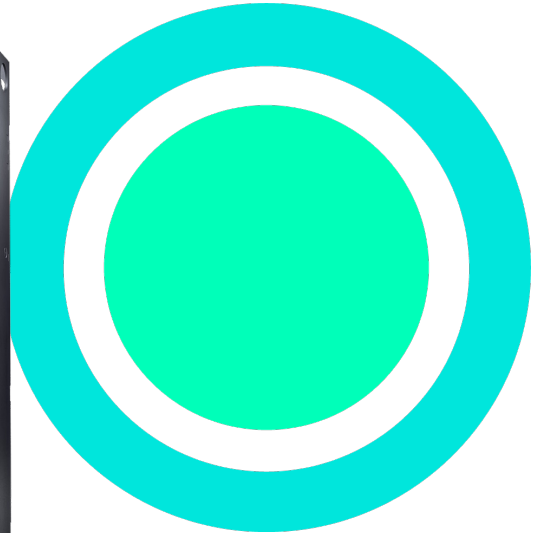


SINAMICS G220

# Siemens EcoTech Profile

Efficient. Secure. Future-Proof.



## Packaging

New packaging concept increases robustness and reduces use of cardboard.



## Energy efficiency

The integration into DriveSim Engineer software enables virtual commissioning without any physical drive.



## Maintenance possible / Updatability

The built-in web server functionality and Siemens service offerings enable simplified remote diagnosis and maintenance.



## Upgradability

A plug & play functional upgrade is possible via option modules.



## Durability / Longevity

Excellent resilience against mechanical vibrations.



## Repairability

Modular design and extended service offering ensure maximum repair capabilities.



## Ease of disassembling / Circularity instructions

A disassembly guideline supports the separation of materials to increase the recycling capabilities.



## 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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EcoTech



## Range of application

This Siemens EcoTech Profile is valid for all products of SINAMICS G220 in frame sizes FSA to FSE, 200 V...240 V 3 AC and 380 V...500 V 3 AC in IP20 degree of protection.

## Further information on the product

### Sustainable materials:



#### Packaging

- Packaging concept increases robustness during transport and reduces the number of packages in a standard delivery from **4 to 1** compared to predecessor, reducing the use of cardboard.
- Digital documentation via ID Link saves paper documentation.
- Leaving out a printed UL supplementary sheet and replacing it with a digital ID link saves up to **1.1 t** paper p.a. over a **5-year-period**.

### Optimal use:



#### Energy efficiency

- Virtual commissioning reduces the time taken and therefore the energy consumption during commissioning phase by up to **50%**.
- Newly implemented motor control functions increase the efficiency of the whole drive train by enabling the highly efficient use of 3rd party motors (SRM / PMSM) and reducing motor power losses for ASM up to **15%**.



#### Durability / Longevity

- The applied tests against mechanical vibrations are executed with test parameters (**28-200 Hz, 1g**) exceeding IEC 61800-5-1.



#### Maintenance possible / Updatability

- Remote service and updates can be provided via the web server, a standard feature of every G220 drive.

### Value recovery & circularity:



#### Repairability

- Repair is **now** the standard procedure for defect devices. This minimizes the scrapping quota within our repair centres.
- More than **40** Siemens authorized repair centres globally.



#### Upgradability

- Plug & play commissioning of extendable options reduces commissioning time by **70%** compared to predecessor.



#### Ease of disassembling / Circularity instructions

- A disassembly video is available [here](#).

## 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.

