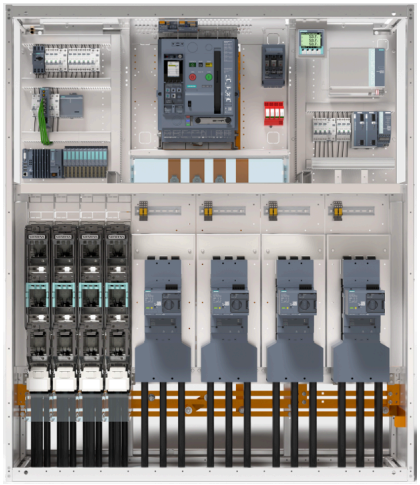
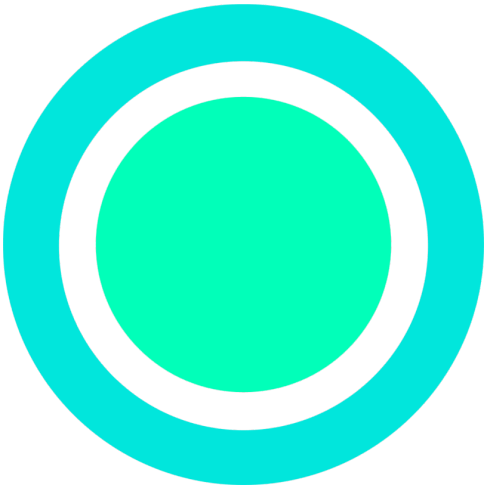
SIEMENS

SIVACON S1

Siemens EcoTech Profile

Efficiency improved and material saving low-voltage distribution





Low carbon materials
PCF of the steel parts reduced by 14% through the application of low carbon steel.

Minimum material use
The design of a customized solution for the target application results in an overall product weight reduction.

Repairability
High reparability with easy access to components, no special tools required and spare parts available.

Energy efficiency
Power loss is reduced due to improved layout and feeder arrangement.

Upgradability
Retrofitting and upgradability is an integral design part and core competence of the product.

Ease of disassembly / Circularity instructions
Product optimized for ease of disassembly without special tools.

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 SIVACON S1 low voltage switchboards.

SIEMENS

Further information on the product

Sustainable materials:

Low carbon materials

- The material mix for the product includes **39%** steel.
- About one third of this share has been substituted to low carbon steel and this reduces the carbon footprint of the steel by **14%** compared to the initial launch product version.

Minimum material use

- Compared to the predecessor*, the total weight has been reduced by **67%** or **533 kg**, mainly due to reduction in carbon steel and copper alloys.

Optimal use:

Energy efficiency

- The product adaptation to the intended applications leads to reduced current paths across the entire product. This results in significant power loss reduction of **22%** compared to the predecessor product*.
- Less energy is spend to heating and increases the performance of the product while keeping the operational costs low.

Value recovery:

Repairability

- All connections are easily accessible; no special tools required by users for repair or exchange.
- Spare parts are available throughout lifecycle with records of each component.

Upgradability

- Product allows various feeder retrofits as described in manual.
- SIMARIS control software adapts to operational changes and supports new functions.

Ease of disassembly / Circularity instructions

- Users can disassemble and recycle the product following provided guidelines.

*SIVACON S8

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.

Siemens EcoTech

Published by Siemens