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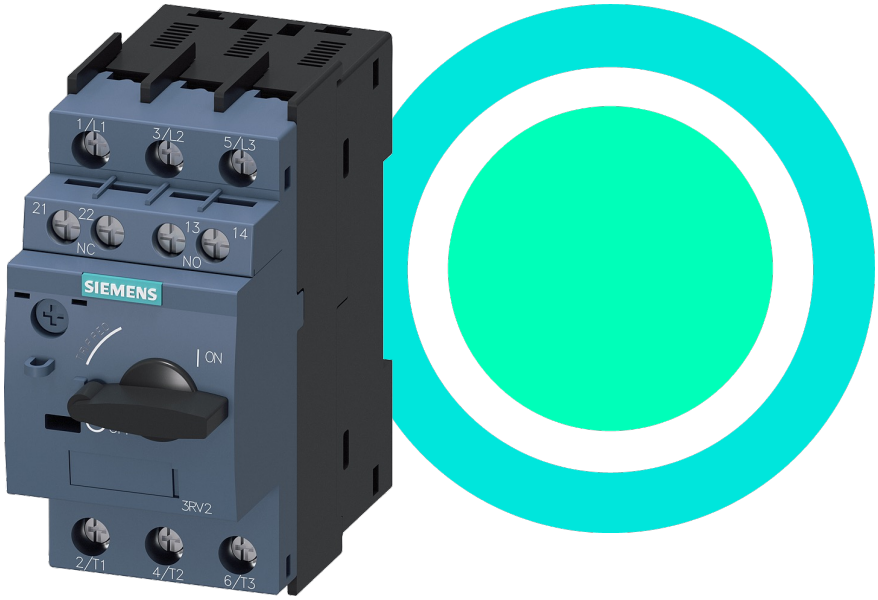
SIRIUS 3RV2 CIRCUIT BREAKER

Siemens EcoTech Profile

SIRIUS 3RV2 Circuit Breaker S00 – S3



Low carbon material
The main product housing is made of plastic where the fossil resources were replaced with 100% biowaste resources* resulting in a reduction of PCF of the material.

Energy efficiency
Lower power consumption over life cycle compared to predecessor.

Durability / Longevity
Rugged reliability, high quality and long mechanical and electrical lifetime of the components enable a long lifetime of the application.

Upgradability
Broad range of accessory parts enable functional upgrades of existing applications (e.g. for retrofit).

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 products in the range of 3RV2 (except 3RV29).

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Further information on the product

Sustainable materials:

Low carbon material

- On the way to the circular economy, we are increasingly using recycled or renewable raw materials as alternatives to fossil resources.
- Without compromising on quality, technical properties and performance, carbon footprint of the material is reduced by up to 30%.

Packaging

- Digital documentation via ID Link saves paper documentation. No paper operating manuals are packed.

Optimal use:

Energy efficiency

- The power consumption of the 3RV2 portfolio was systematically optimized. Compared to the predecessor at least 10% less power loss was achieved.
- Through smart selection of setting ranges, it is possible to achieve a further power loss saving of up to 40%.

Durability / Longevity

- Long lifetime up to 100,000 operating cycles overperforming product norm IEC 60947-2.

Value recovery & circularity:

Upgradability

- Modernizing or converting old machines (retrofit) based on existing components can increase efficiency and energy savings. Technical innovations in electrical components also offer completely new functionalities and numerous advantages for operators and operating personnel on site, as well as saving costs.
- Broad range of accessory parts enable functional upgrades of existing applications (e.g. undervoltage release, auxiliary switches and wireless communication module).

* Biomethane and bio-naphtha are derived from waste, agricultural waste and municipal waste which are sourced with sustainability certification from established schemes based on the biomass balance approach. Siemens replaced the former used material in its supply chain in April 2024. In order to avoid waste, stocked material is used up first.

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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