

SENTRON 5SV13/16 RCBO COMPACT

# Siemens EcoTech Profile

## SENTRON 5SV1 RCBO compact



### Minimum material use

Bundling of residual current device and miniature circuit breaker functionality in one device saves resources in manufacturing and space in application.



### Packaging

Packaging waste is reduced compared to ordering single products.



### Durability / Longevity

Excellent lifetime (compared to IEC 61009-1), high quality mechanical and electronical life.



### Upgradability

Hardware upgrade of additional functionality, e.g. arc fault detection. One standardized accessory system for installation devices to extend functionality in existing applications.



### Recyclability

High recyclability rate and low disposal rate.



### 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.



## Further information on the product

### Sustainable materials:



#### Minimum material use

- **50% savings of space** and **material** compared to conventional installation (values based on example for typical installation with one common RCCB for 4 circuits).
- More than **40% savings of CO<sub>2</sub>e in manufacturing phase** compared to comparable function with one residual current device and one miniature circuit breaker.
- Small building width saves space in cabinet.



#### Packaging

Integration of residual current device and miniature circuit breaker functionality in one device **supersedes 1 out of 2 packaging**.

### Optimal use:



#### Durability / Longevity

Up to **10.000 operating cycles** outperform standard lifetime of IEC 61008-1.

### Value recovery & circularity:



#### Upgradability

- The functionality of existing applications can easily be extended by adding electromechanical hardware device parts such as arc fault detection devices, signaling contacts, communication and much more. Just one system of function extensions for complete portfolio.
- Thus, SENTRON RCBO compact enables machines and switchboards to be used longer and more productively in order to save costs and resources.



#### Recyclability

The end-of-life phase was modeled by shredding of the device, followed by sorting and material separation process and lead to a **disposal rate of 5%**.

## 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.