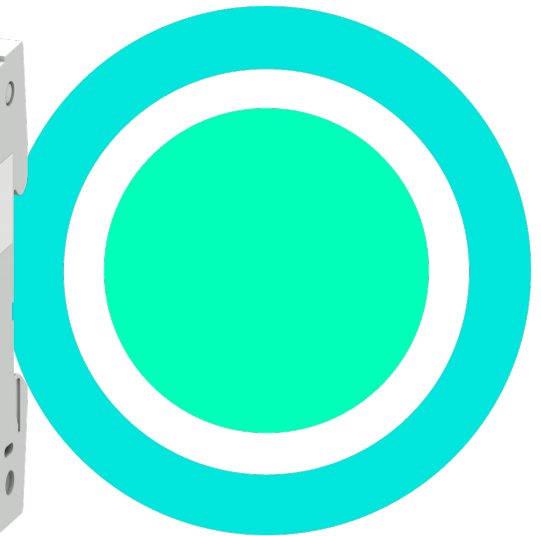


SENTRON ECPD - ELECTRONIC CIRCUIT PROTECTION DEVICE 5TY1

Siemens EcoTech Profile

SENTRON ECPD - All you need. And more.



Secondary material

Product housing is made out of plastic with recycled content to save resources.



Packaging

Packaging waste is reduced compared to ordering single conventional products*, that are substituted by SENTRON ECPD.



Durability / Longevity

Robustness, high quality and long mechanical and electronic lifetime of the SENTRON ECPD supports reliability and high availability of the application.



Minimum material use

Bundling of multiple functionalities in one device leads to significant material and resource savings* in production as well as space reduction in application.



Energy efficiency

Significant savings in power consumption based on incorporation of multiple product features in one single device*.



Upgradability

Firmware upgrades of additional product functionalities are available to adapt to upcoming application requirements.



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.



Range of application

This Siemens EcoTech Profile is valid for all products in the range of 5TY1.

Further information on the product

Sustainable materials:



Secondary material

- Housing is made out of plastic with **30%** recycled glass fibre.



Packaging

- **90%** less material in packaging compared to conventional solution*.
- The Siemens ID Link leads directly to all product-specific information via a QR code, reducing paper documentation.



Minimum material use

- **50%** savings of CO₂ representing **1,53 kg** less material use in manufacturing phase compared to conventional solution* e.g. **90%** less plastic & metal and **80%** less electronics.

Optimal use:



Durability / Longevity

- Superb longevity compared to conventional miniature circuit breakers: Up to **10,000** mechanical switching cycles and **1,000,000** electronic switching cycles.



Energy efficiency

- Low power consumption reduces CO₂ footprint in use phase by up to **65%** compared to conventional solution* (typ. lighting application: 20%, cooling systems: 50% power saving).
- Transparency over the energy flows in the application provided by metering and communication function supports energy efficiency and management acc. ISO 50001.

Value recovery & circularity:



Upgradability

- By adapting to new upcoming requirements SENTRON ECPD enables machines and switchboards to be used longer and more productively in order to save costs and resources.
- SENTRON ECPD can integrate up to **10** conventional functionalities with one device and these can be extended and adapted via firmware upgrades (e.g. timer, residual current monitoring, signaling contacts and more).

* The novelty and disruptive technology of ECPD can integrate and thus substitute up to 10 conventional installation products (e.g. timer, residual current device, signaling contacts and more) with one device.

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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