

SENTRON 3WA1 AIR CIRCUIT BREAKER

# Siemens EcoTech Profile

## SENTRON Air Circuit Breaker



### Packaging

Use of ID Link and digital documentation in order to reduce paper documentation.



### Energy efficiency

Excellent efficiency due to low temperature derating; even optimized in SIVACON & ALPHA switchgear.

Acquires energy data to provide transparency for energy efficiency measures, e.g. energy management ISO 50001.



### Maintenance possible / Updatability

Minimum maintenance: Executable by customers themselves on site. Wide range of accessories and spare parts.

Future-proof product due to regular updates based on new emerging requirements and security patches.



### Durability / Longevity

Superb lifetime and high robustness



### Repairability

Modular concept enables easy repairability by user. Additional repair centers and wide range of spare parts are available.



### Upgradability

Separation of application and protective processors enables easy upgrade of new features and adapt functionality for changing demands.



### 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 3WA1.

## Further information on the product

### Sustainable materials:



#### Packaging

- Siemens is equipping more and more appliances with an ID Link. This link leads directly to all product-specific information via a QR code.
- As this information is available in digital form, paper is saved.
- In addition, the documents can no longer be lost and are always up-to-date.
- The paper documentation of 3WA is significantly reduced. Compared to the predecessor 3WL **350 handbook pages** are removed, which saves more than **50t CO<sub>2</sub>e per year**



#### Minimum Material Use

- Small 6300A** fixed-mounted **breaker** to fit into a 800mm wide field, for compact space-saving high power demanding application.

### Optimal use:



#### Durability / Longevity

- Up to **30.000 operating cycles** for electrical and mechanical switching to satisfy high demanding applications.
- High quality & performance: up to **+30% Icu, Ics, Icw** compared to predecessor.



#### Energy efficiency

- No derating\* up to 55°C ref. temp.** acc. IEC 60364-8-1 for optimal performance.
- Metering data according to IEC 60364-8-1 thanks to a predefined metering function level (PMF level).



#### Maintenance possible / Updatability

- Lowest efforts. Annual inspection as well as **replacement of wear parts** can be carried out by users themselves.

### Value recovery & circularity:



#### Upgradability

- Intelligent dual-processor ETU provides future-proof solution and high levels of flexibility, together with strong security. ETU functions extendable by on-site upgrades (ETU600).
- COM190 PROFINET-IO/Modbus TCP switched ethernet module for connection to higher-level management systems and remote access; designed to use multiple protocols simultaneously in one device (Modbus TCP and PROFINET), offering optimized architecture and redundancy while maintaining highest performance & PN conformity class
- Accessories, spare parts, electronics can also be retrofitted on site at any time.
- Easy replacement acc. IEC61439 and retrofit of 3WA into existing predecessor 3WL guide frame possible, supporting **long-term circularity**.

*\*Expt. 6300A draw-out version*

## 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.