

## SIMATIC ET 200SP FAILSAFE

# Siemens EcoTech Profile

### Machine safety seamlessly integrated



#### Low carbon materials

Substantially reduced product carbon footprint\* (cradle to gate) through design optimizations.



#### Minimum material use

Considerable reduction in overall product weight\* due to product redesign, leading to decreased use of resources.



#### Packaging

The packaging boxes are 100% free of plastic and made of 100% recycled and FSC certified cardboard.



#### Energy efficiency

Substantially reduced power dissipation\*.



#### Durability / Longevity

The product is designed for maintenance-free operation to ensure longevity.



#### Upgradability

Functional upgrades can be achieved through the implementation of firmware updates to the device.



#### Maintenance possible / Updatability

Firmware updates are available in SIOS to keep the product up to date. Remote commissioning and service operation supported.



#### Ease of disassembling / Circularity instructions

Recycler guide describes easy disassembly with standard tools and material fractions available from recycling.



#### 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 the following ET 200SP Failsafe modules: 6ES7136-6BA01-OCA0, 6ES7136-6RA00-0BF0.

## Further information on the product

### Sustainable materials:



#### Low carbon material

- The product carbon footprint (cradle to gate) is reduced to **6.8 kgCO<sub>2</sub>e**, a reduction of about **-50%** compared to the predecessor product\*.



#### Minimum material use

- Overall product weight is reduced by more than **-40%** compared to the predecessor product\*.



#### Packaging

- FSC certified cardboard box made of **100%** responsibly managed sources or recycled fibers.

### Optimal use:



#### Energy efficiency

- Power dissipation was reduced by **-50%** compared to predecessor product, leading to savings of **-30 kgCO<sub>2</sub>e per module** during the product's use phase\*.



#### Durability / Longevity

- Product features such as the avoidance of batteries characterize the maintenance-free product design.



#### Maintenance possible / Updatability

- Firmware updates provided in SIOS to keep the device up to date.
- SIMATIC Automation Tool enables remote commissioning and service operation, leading to reduced travel emissions.

### Value recovery & circularity:



#### Upgradability

- Firmware updates which enable functional upgrades are available in SIOS.



#### Ease of disassembling / Circularity instructions

- A recycler guide is available in SIOS.

\*Only applicable for 6ES7136-6BA01-0CA0 as there is no predecessor product for 6ES7136-6RA00-0BF0 available.

## 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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