

SIRIUS ACT 3SU1.0. / 3SU1.5

Siemens EcoTech Profile

SIRIUS ACT – Performance in Action



Minimum material use

Significant resource savings in material and CO₂e emissions after redesign of existing portfolio.



Packaging

Usage of recycled plastic with a recycling share of 40% (emergency stop, holder, contact modules). Bulk packaging available to reduce waste in packaging (for some variants only on demand).



Durability / Longevity

High robustness and long lifetime even under harsh conditions.



Repairability

Modular concept enables easy exchange of wear part (i.e. contact / switching module).



Upgradability

Communication modules (AS-Interface, IO-Link, PROFINET) to upgrade communication functionality of existing applications.



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 3SU1.0. / 3SU1.5, excluding 3SU12, 3SU18 and 3SU19.

Further information on the product

Sustainable materials:



Minimum material use

- Comprehensive sustainable redesign project led to significant resource savings in manufacturing phase and transport of up to annual **390 tons CO₂e** (considering complete portfolio), e.g.:
- Universal holder: **-40% CO₂e**
- Contact modules: **-17% up to -84% CO₂e** (depending on variant)
- Emergency stop: **-14% CO₂e**



Packaging

- Use of secondary materials requires fewer resources and therefore has an impact on the overall sustainability of the product. SIRIUS ACT uses plastic in **packaging** with a **recycling share of 40%** (emergency stop, holder, contact moule).

Optimal use:



Durability / Longevity

- Rugged **reliability**, high **quality** and high **insertion protection IP69k** classification as a standard for complete portfolio.
- Long mechanical and electrical lifetime of the components enable a long lifetime of the application: **10M mechanical switching cycles** as a standard for momentary pushbuttons and **100.000 electrical switching cycles** for contact modules.

Value recovery & circularity:



Repairability

- Modular and innovative snap-on concept of actuator, holder and contact / switching modules enables easy installation and repairing with lowest effort, so that it can be done with one hand.
- **Actuator, holder** and **contact / switching modules** can be **replaced separately**.



Upgradability

- In addition to standard wiring, SIRIUS ACT can also be connected directly to the controller via AS-Interface, IO-Link or PROFINET. **Existing applications** can be **upgraded with communication functionality** at any phase of its life cycle for rising digitalization demands.

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.