

COUPLING RELAY SIRIUS 3RQ4, NARROW DESIGN

Siemens EcoTech Profile

SIRIUS 3RQ4



Substances of concern

Product designed and optimized for low toxicity.



Secondary materials

Plastic housing made of bio based plastic (80% share, mass balanced).



Energy efficiency

33% less power losses for semiconductor variants compared to predecessor.



Repairability

High repairability and extended service life based on replacement and accessory parts.



Packaging

Optimized packaging and reduced package waste.



Durability / Longevity

Reliability and durability further increased compared to predecessor. Made in Germany.



Ease of disassembly / Circularity instructions

Product optimized for ease of disassembly.



Compliant with substance regulations

Protect people and environment by avoiding substances of concern.



EPD Type II or Type III available

The Environmental Product Declaration (EPD) provides transparency on the environmental impact of the product throughout its life cycle. Type II according to ISO 14021 including Life Cycle Impact Assessment (LCIA). Type III verified and certified according to ISO 14025.



Scan for [Environmental Product Declarations \(EPD\)](#) and further technical information.

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Range of application

This Siemens EcoTech Profile is valid for 3RQ4.

Further information on the product

Sustainable materials:



Substances of concern

- Current version with halogen-free PCBs throughout the complete portfolio; relay variants (3RQ40***S) without PVC, PVC additives or PFAS added, SVHC below 0.1%.



Secondary materials

- 80% of the fossil resources for the feedstock of the new plastic used in the current product are replaced with biowaste resources, the plastic uses a halogen free flame retardant.



Packaging

- Multi-piece packaging now contains 10 pieces instead of 5 pieces resulting in savings of 50% paper weight.
- No paper manuals are packed.

Optimal use:



Energy efficiency

- Power loss of semiconductor variants **reduced from 0.3 W to 0.2 W** (33% less power losses).



Durability / Longevity

- Semiconductor switching: Higher currents possible, increased **from 0.5A to 3A / from 2A to 6A** and no wear of contacts resulting in long lifetime.
- Relay switching: B10d values now available showing high reliability of **300,000** operating cycles.
- Ultrasonic soldering for high-quality joints.
- Manufactured in Germany.

Value recovery:



Repairability

- Defect relays can be replaced by the user without need of replacing complete product.
- Accessory parts such as connection comb, label plates and replacement relays enhance the ease of repair and maintenance.



Ease of disassembly / Circularity instructions

- The product is designed for easy disassembly, supporting circularity concepts.
- Detailed circularity instruction is provided.

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](#)



TÜV Rheinland has independently validated the assessing methodology behind this product sheet's data evaluation according to ISO 14020 and 14021 standards.

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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