SIEMENS

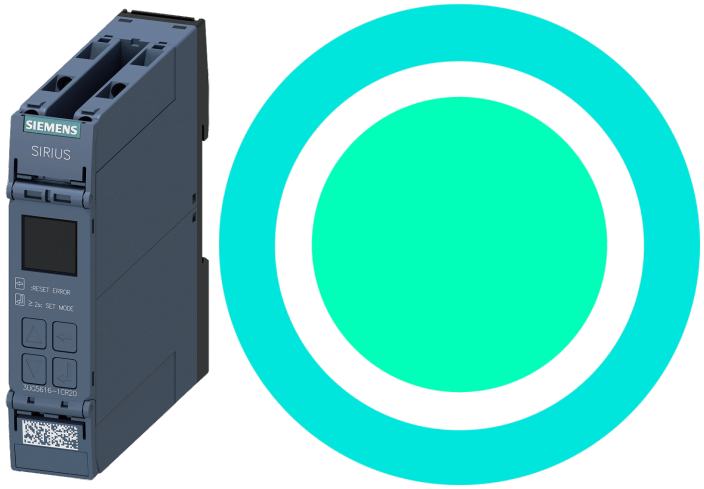
SIRIUS MONITORING RELAYS 3UG5

Siemens EcoTech Profile

SIRIUS 3UG55/56/57/58

Minimum material use
Bundling of diverse functions in one device saves space and reduces use of material (applies for all 3UG5[6,7,8]4).

Packaging
Digital documentation via ID Link saves paper documentation.



Energy efficiency
Ecomode for display reduces power losses by 10% compared to standard mode.

Maintenance possible / Updatability
Firmware updates executable by customers on site.

Upgradability
Upgrade of new customer requirements (e.g. additional calculation of values, new communication variant) on demand.

Durability / Longevity
High robustness, especially to shock and vibration acc. SN31205 / IEC 60068 and IEC 61373.

Repairability
Modular design and wide range of accessories and spare parts available.

Ease of disassembly / Circularity instructions
Circularity instruction describes easy disassembly with standard tools and material fractions for 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.

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Range of application
This Siemens EcoTech Profile is valid for SIRIUS 3UG55/56/57/58.

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Further information on the product

Sustainable materials:

Minimum material use

- Bundling of current, voltage and power factor, active/apparent power and frequency measurement function in one device, hence 1 instead of 3 devices (**60 % saving** in weight).

Packaging

- The ID Link leads directly to all product-specific information via a QR code. As this information is only available in digital form, paper is saved.
- Future projected savings of **240 kg** of paper per year compared to 3UG4 (same product family as SIRIUS 3UG55/56/57/58 is in ramp-up).
- In addition, the documents can no longer be lost and are always up-to-date.

Optimal use:

Energy efficiency

- Introduction of display energy efficiency mode.
- Measures and communicates energy data for energy management applications.

Durability / Longevity

- Shock and vibration of 3UG5 tested for extended requirements for shipbuilding and railway applications.

Maintenance possible / Updatability

- Firmware and latest cyber security updates can be applied for all communication capable devices (IO-Link, Bluetooth), applies for 3UG5[7,8].

Value recovery & circularity:

Repairability

- Modular design allows change of defect devices whilst keeping terminals in situ.
- Wide range of accessories, e.g. detachable terminals, covers.

Upgradability

- Future-proof ecodesign of controller and electronics (e.g. capacity of controller).

Ease of disassembly / Circularity instructions

- Transparency via circularity instructions (available via SIOS) and design for easy disassembling enable end of life treatment for the circular economy.
- Device optimized for disassembling to enable easy recycling at the end of the product lifetime.

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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Published by Siemens