SIEMENS

Building Parts

**EPD - Type II**
**Based on ISO 14021**

# *Environmental Product Declaration*

**Product**

| | | |
|---|---|---|
| Type of equipment / Product No. | 5WG1543-1DB31 | Solar protection actuator |
| | 5WG1543-1DB31-8SH1 | Solar protection actuator |
| | 5WG1543-1DB51 | Solar protection actuator |
| | 5WG1543-1DB51-8SH1 | Solar protection actuator |
| Product line, product range | GAMMA instabus | |

**Process control**

Siemens Schweiz AG
Smart infrastructure
Theilerstrasse 1a
CH - 6300 Zug

| Management System | since | by |
|---|---|---|
| ISO 9001 (Quality) | 15.04.2013 | SQS |
| ISO 14001 (Environment) | 15.04.2013 | SQS |
| OHSAS 18001 (OH&S) | 15.04.2013 | SQS |

**Environmentally compatible product design**

Product responsibility of Siemens covers the entire product life cycle. Siemens already assesses, avoids and minimizes the environmental impact of its products with respect to production, procurement, sales, use, services and disposal during the product and process planning phases by complying with Siemens EP Standard (former SN 36350) "Specifications on Environmentally Compatible Product and System Design".

**Product use**

| | |
|---|---|
| Typical energy consumption | see Technical product information |
| Maintenance | Not necessary |

**Risk of fire**

| | |
|---|---|
| Fire protection according to | EN 50428 |
| Fire load | variant *) see below |

**Packaging**

| | | |
|---|---|---|
| 20-PAP Corrugated fibreboard | Box 4 MW neutral | variant |
| 20-PAP Corrugated fibreboard | Box 8 MW neutral | variant |
| 22-PAP Paper | Mounting instructions | variant |
| Notes on disposal | One-way, recyclable | |

**Materials**

Total weight of device: variant *) see below

The total weight of a device may deviate from the total of the weights of all individual components due to rounding.

| | | | |
|---|---|---|---|
| Plastics | PMMA; low-halogen | light conductor | 1g |
| | PA; low-halogen | slider | variant |
| | PA6; GF 25%; low-halogen | lower housing 8TE | variant |
| | PA6; GF 25%; low-halogen | upper housing 8TE | variant |
| | PA6; GF 25%; low-halogen | operating panel 8TE electronic | variant |
| | PA6; GF 25%; low-halogen | exp-cover | variant |
| | PA6; GF 25%; low-halogen | lower housing 4TE | variant |
| | PA6; GF 25%; low-halogen | upper housing 4TE | variant |
| | PA6; GF 25%; low-halogen | operating panel 4TE electronic | variant |
| | PA6; GF 25%; low-halogen | level holder | variant |
| | PA66 | Cable tie | variant |
| Metals | Steel | Pressure spring | 1g |
| Others | PA66-Cu-ETP | BUS terminal 2-pols | 2g |
| | | Plastic foil keyboard | variant |

| | | | |
|---|---|---|---|
| | | Connecting wire | variant |
| PCBAs (Printed Circuit Board assembled) | FR4; halogenated; solder SnAgCu | PCBAs welded together (4 PCBAs) | variant |
| | FR4; halogenated; solder SnAgCu | PCBAs welded together (3 PCBAs) | variant |
| Special components (part of the assembled PCB) | PCB > 10 cm² | | variant |

Weights in brackets are already included in components declared under materials. (part of the assembled PCB)

***Variant parts list**

| [g] | 5WG1543-1DB31 | 5WG1543-1DB31-8SH1 | 5WG1543-1DB51 | 5WG1543-1DB51-8SH1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total weight of device | 246 | 246 | 451 | 451 | | | | | | | | |
| slider | 1 | 1 | 2 | 2 | | | | | | | | |
| lower housing 8TE | | | 61 | 61 | | | | | | | | |
| upper housing 8TE | | | 67 | 67 | | | | | | | | |
| operating panel 8TE electronic | | | 16 | 16 | | | | | | | | |
| exp-cover | | | 20 | 20 | | | | | | | | |
| lower housing 4TE | 32 | 32 | | | | | | | | | | |
| upper housing 4TE | 43 | 43 | | | | | | | | | | |
| operating panel 4TE electronic | 10 | 10 | | | | | | | | | | |
| level holder | 2 | 2 | | | | | | | | | | |
| Cable tie | | | 1 | 1 | | | | | | | | |
| Plastic foil keyboard | 4 | 4 | 7 | 7 | | | | | | | | |
| Connecting wire | | | 2 | 2 | | | | | | | | |
| PCBAs welded together (4 PCBA | | | 272 | 272 | | | | | | | | |
| PCBAs welded together (3 PCBA | 152 | 152 | | | | | | | | | | |
| Fire load [MJ] | 5 | 5 | 9 | 9 | | | | | | | | |
| Special components (part of the | | | | | | | | | | | | |
| PCB > 10 cm² [pcs] | 3 | 3 | 4 | 4 | | | | | | | | |
| Packaging | | | | | | | | | | | | |
| Box 4 MW neutral [g] | 70 | 70 | | | | | | | | | | |
| Box 8 MW neutral | | | 100 | 100 | | | | | | | | |
| Mounting instructions | 16 | 12 | 16 | 12 | | | | | | | | |

**Disposal**



The device is classified as waste electronic equipment in terms of the European Directive 2012/19/EU (WEEE) and must not be disposed of as unsorted municipal waste. Regarding disposal, use the systems setup for collecting electronic waste.
Observe all local and applicable laws.

## Comments

**EU-directive 2011/65/EU (RoHS)**

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive, including the 4 phthalates added to Annex II in 2015.

**Regulation (EC) No. 1907/2006 (REACH)**

The device contains the following substances of the candidate list according to Article 59 (1, 10) of the regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) in concentrations above 0.1 % w/w. Contained REACH candidate substances, including those which will become known at a later date, are listed on the delivery note.
Lead and its Compounds, CAS-Nr.7439-92-1; Lead oxyde (Lead monoxyde), CAS-Nr.1317-36-8

(Status according to the creation date of this document.)

**Legal Disclaimer: This declaration is for information purpose only.**

This Environmental Product Declaration does not constitute a guarantee of the composition of a product, neither does it guarantee that the product will retain a particular composition for a particular period.

Siemens Schweiz AG therefore does not assume liability for any error or for any consequences which may arise from the use of this information to the maximum extent under the law.

Please contact your local Siemens branch office to get further information on environmental aspects and disposal.

25.02.2022