

PROTECTION AND CONNECTION

# Product environmental information

## Fuse switch disconnecter

### Kabeldon SLD

#### Applicability

This document covers the environmental information for the following products manufactured by ABB AB, Protection and Connection, Alingsås - Sweden:

#### Applicability

| Type        | Product ID     |
|-------------|----------------|
| SLD 63      | 2CGX0 63050110 |
| SLD 000     | 2CGX0 63050106 |
| SLD-FHD 000 | 2CGX0 63050116 |
| SLD 00      | 2CGX0 63050107 |
| SLD-FHD 00  | 2CGX0 63050117 |
| SLD 1       | 2CGX0 63050108 |
| SLD 2       | 2CGX0 63050109 |

# Product conformity and compliance

## **REACH (Regulation EC 1907/2006)**

During normal and reasonably foreseeable conditions of use, Fuse Switch Disconnectors and related accessories manufactured by ABB AB, Protection and Connection, do not intentionally release any substance or preparation.

ABB AB, Protection and Connection continuously undertakes communications throughout its supply chain in order to collect information about suppliers' compliance with REACH Regulation.

## **RoHS and RoHS II**

With reference to the EU Directive 2002/95/EC on Restriction of Hazardous Substances (RoHS).

The RoHS Directive does not apply to Fuse Switch Disconnectors and related accessories manufactured by ABB AB, Protection and Connection, as they are not falling under the categories 1, 2, 3, 4, 5, 6, 7 and 10 set out in Annex IA of the WEEE Directive 2002/96/EC.

## **SVHC (Regulation EC 1907/2006 REACH)**

ABB AB, Protection and Connection continuously assesses its products for content of Substances of Very High Concern (SVHC), as included in the "Candidate List" by the European Chemicals Agency (ECHA).

According to our current best knowledge, Fuse Switch Disconnectors and related accessories manufactured by ABB AB, Protection and Connection, do not contain SVHC substances exceeding 0.1% w/w. In the event we discover that any SVHC is present above the reporting threshold, we will inform you according to the requirements of REACH directive.

## **WEEE**

Fuse Switch Disconnectors and related accessories manufactured by ABB AB, Protection and Connection, are not in the scope of Directive 2002/96/EC (1st version), thus they are also excluded from the Directive version (2012/19/EU), at least up to August 14th 2018.

## **Conflict minerals**

ABB is continuously working to secure that no "Conflict Minerals" from the Democratic Republic of Congo and the adjoining countries named in section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act are used in our products.

We are pleased to inform that no Conflict Minerals are contained in the products to which this document applies.

## **Product Safety**

The products has been tested according to standards:

EN60947-1: 2007/A2:2014

EN60947-3: 2008/A2:2015

Directives:

"Low Voltage Directive" (LVD) 2017/35/EU

"Electromagnetic Compatibility Directive" (EMC) 2014/30/EU

# Material declaration

## The total weight of the products

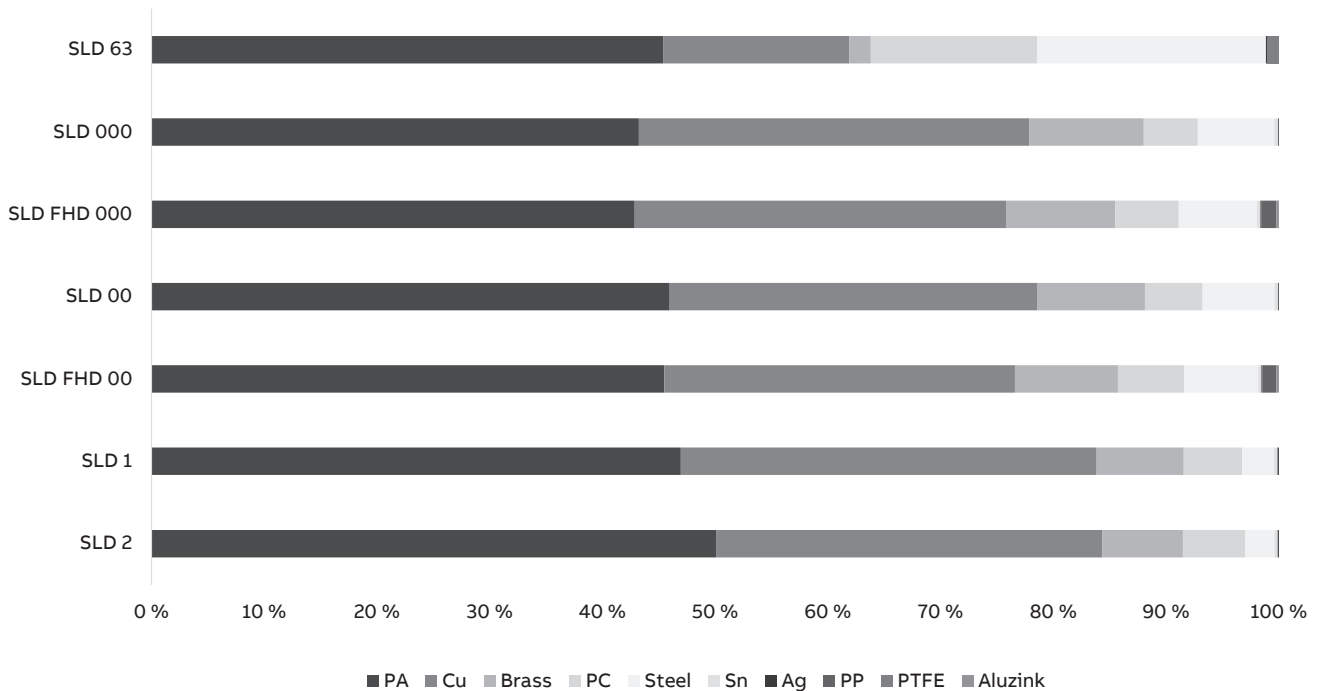
| Type        | Weight (kg) |
|-------------|-------------|
| SLD 63      | 1,45        |
| SLD 000     | 1,77        |
| SLD-FHD 000 | 1,86        |
| SLD 00      | 1,88        |
| SLD-FHD 00  | 1,97        |
| SLD 1       | 4,28        |
| SLD 2       | 4,61        |

The chart below shows the constituent materials and their allocation in the SLD fuse switch disconnectors.

## Material declaration

| Material | SLD 63<br>Weight (kg) | SLD 000<br>Weight (kg) | SLD FHD 000<br>Weight (kg) | SLD 00<br>Weight (kg) | SLD FHD 00<br>Weight (kg) | SLD 1<br>Weight (kg) | SLD 2<br>Weight (kg) |
|----------|-----------------------|------------------------|----------------------------|-----------------------|---------------------------|----------------------|----------------------|
| PA       | 0,660                 | 0,765                  | 0,797                      | 0,864                 | 0,896                     | 2,007                | 2,311                |
| Cu       | 0,240                 | 0,613                  | 0,613                      | 0,613                 | 0,613                     | 1,577                | 1,577                |
| Brass    | 0,028                 | 0,180                  | 0,180                      | 0,180                 | 0,180                     | 0,330                | 0,330                |
| PC       | 0,215                 | 0,085                  | 0,105                      | 0,096                 | 0,116                     | 0,223                | 0,254                |
| Steel    | 0,294                 | 0,120                  | 0,129                      | 0,120                 | 0,129                     | 0,120                | 0,120                |
| Sn       | 0,001                 | 0,006                  | 0,006                      | 0,006                 | 0,006                     | 0,013                | 0,013                |
| Ag       | 0,002                 | 0,001                  | 0,001                      | 0,001                 | 0,001                     | 0,005                | 0,005                |
| PP       | -                     | -                      | 0,025                      | -                     | 0,025                     | -                    | -                    |
| PTFE     | 0,015                 | -                      | -                          | -                     | -                         | -                    | -                    |
| Aluzink  | -                     | -                      | 0,004                      | -                     | 0,004                     | -                    | -                    |

## Material declaration



## Packaging

The SLD fuse switch disconnectors are packed in recyclable cardboard boxes (100% cardboard).

## Product use

### Power losses

Power losses for SLD are indicated in the following table:

#### Power losses

| Type        | Nominal current | Power loss [W]<br>with fuse | Power loss [W]<br>with linking knife |
|-------------|-----------------|-----------------------------|--------------------------------------|
| SLD 63      | 63 A            | 25,20                       | 6,60                                 |
| SLD 000     | 100 A           | 29,40                       | 9,00                                 |
| SLD-FHD 000 | 100 A           | 29,40                       | 9,00                                 |
| SLD 00      | 160 A           | 44,90                       | 19,80                                |
| SLD-FHD 00  | 160 A           | 44,90                       | 19,80                                |
| SLD 1       | 250 A           | 70,60                       | 20,30                                |
| SLD 2       | 400 A           | 120,60                      | 40,40                                |

The power loss with linking knife represent about 0,01-0,02% of total effect flowing through the SLD, with fuse the corresponding value is about 0,04%.

### End-of-life

The main parts of the fuse switch disconnectors can be recycled to preserve natural resources and energy. Product parts and materials should be dismantled and separated.

Generally all metals can be recycled as material. Plastics and packaging material can be used in energy recovery.

To aid recycling, plastic elements are – where possible – marked with appropriate identification code.

### ABB AB

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