Product Environmental Profile

Easergy P3F30

Range of products used for the protection of distribution and transmission networks and high voltage equipment (typically from 1 to 250 KV)
General information

Representative product  
Easergy P3F30

Description of the product  
Protect electrical network, medium & high voltage network - Maximize energy availability and the profits generated by customer installation while protecting life and property.

Description of the range  
Range of products used for the protection of distribution and transmission networks and high voltage equipment (typically from 1 to 250 KV)

Protect distribution and transmission networks and high voltage equipment (typically from 1 to 250 KV) like feeder, transformer, motor and generator against faults, (short circuit, over load …) 24h per day, for 10 years of continuous operations in Europe.
The 10 years of operations in this document are defined for calculation purposes only, and are not representative of the effective lifetime of Easergy P3 Advanced products, which is more than 10 years.

Constituent materials

Reference product mass  
5418 g including the product, its packaging and additional elements and accessories

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
The Easergy P3F30 presents the following relevant environmental aspects

**Manufacturing**
- Manufactured at a Schneider Electric production site ISO14001 certified

**Distribution**
- Weight and volume of the packaging optimized, based on the European Union's packaging directive
- Packaging weight is 550,1 g, consisting of cardboard (97%), paper (2%), PE film (1%)
- Packaging recycled materials is 99.3% of total packaging mass.
- Product distribution optimised by setting up local distribution centres

**Installation**
- This product does not require any installation operations.

**Use**
- This product contains electronic cards (2150 g) that should be separated from the stream of waste so as to optimize end-of-life treatment.
- The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

**End of life**
- The product does not require special maintenance operations.
- The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

**Environmental impacts**

- **Reference life time**: 10 years
- **Product category**: Active products
- **Installation elements**: End of life of the packaging
- **Use scenario**: 8.89 W 100% of the time in Standby mode
- **Geographical representativeness**: Europe
- **Technological representativeness**: Protect electrical network, medium & high voltage network - Maximize energy availability and the profits generated by customer installation while protecting life and property.

<table>
<thead>
<tr>
<th>Energy model used</th>
<th>Manufacturing</th>
<th>Installation</th>
<th>Use</th>
<th>End of life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy model used: France</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

### Compulsory indicators

<table>
<thead>
<tr>
<th>Impact indicators</th>
<th>Easergy P3F30 - P3F30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unit</td>
</tr>
<tr>
<td>Contribution to mineral resources depletion</td>
<td>kg Sb eq</td>
</tr>
<tr>
<td>Contribution to soil and water acidification</td>
<td>kg SO2 eq</td>
</tr>
<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO4^3- eq</td>
</tr>
<tr>
<td>Contribution to global warming</td>
<td>kg CO2 eq</td>
</tr>
<tr>
<td>Contribution to ozone layer depletion</td>
<td>kg CFC11 eq</td>
</tr>
<tr>
<td>Contribution to photochemical oxidation</td>
<td>kg C2H4 eq</td>
</tr>
<tr>
<td>Resources use</td>
<td>Unit</td>
</tr>
<tr>
<td>Net use of freshwater</td>
<td>m3</td>
</tr>
<tr>
<td>Total Primary Energy</td>
<td>MJ</td>
</tr>
</tbody>
</table>
The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME® v5.6.0.1, database version 2016-11.
According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

Other products in this family: P3L30, P3T32, P3M30, P3M32, P3G30, P3G32
The difference between all products is mainly firmware.
The firmware does not lead to differences in environmental impacts (the software is not taken into account in the evaluation).
There may be some hardware differences on options such as different input voltage ranges for Digital Input or Power Supply boards, for example, but neither the PCBA dimensions nor the electronic type differ.

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.