Product Environmental Profile

iAUXILIARY iMX+OF
**General information**

<table>
<thead>
<tr>
<th>Representative product</th>
<th>iAUXILIARY iMX+OF - A9A26946</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of the product</td>
<td>The electrical auxiliaries are combined with iC60,iC40,iCV40, iDPN Vigi circuit breakers, iiD, iiD40 residual current circuit breakers, remote tripping switch disconnector ISW-NA; They enable tripping upon a fault. They are fastened by clips (without tools) to the left side of the breaker. iMX+OF is shunt release with open/close contact</td>
</tr>
</tbody>
</table>

**Functional unit**

The main purpose of Auxiliary MX+OF is as an emergency stoppage by normally open push button and the remote indication of the position of the associated device. To trips the associated device when it is powered on during 20 years with 100/415V AC-50/60Hz.

**Constituent materials**

| Reference product mass | 86.73 g including the product, its packaging and additional elements and accessories |

**Plastics**

- PA Polyamide 37.4%
- PC Polycarbonate 3.4%
- PBT Polybutylene Terephthalate 3.0%
- PPS Polyphenylene Sulfure 1.7%

**Metals**

- Steel 16.5%
- Copper 9.7%
- Brass 4.4%
- Stainless steel 2.6%
- Silver 0.1%

**Others**

- Cardboard 20.2%
- Paper 0.7%

**Substance assessment**

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2002/95/EC of 27 January 2003) 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:

## Additional environmental information

The **iAUXILIARY iMX+OF** 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 18.73 g, consisting of cardboard (97%), paper (3%)

### Installation
- RefA9A26946 does not require any installation operations

### Use
- The product does not require special maintenance operations.

### End of life
- End of life optimized to decrease the amount of waste and allow recovery of the product components and materials
- No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.
- Recyclability potential: 40%


## Environmental impacts

### Reference life time
- 20 years

### Product category
- Blocks and differential switches

### Installation elements
- No special components needed

### Use scenario
- Load rate: 50% of In
- Use time rate: 30% of RLT

### Geographical representativeness
- Europe

### Technological representativeness
- The electrical auxiliaries are combined with iC60, iC40, iCV40, iDPN Vigi circuit breakers, iID, iID40 residual current circuit breakers, remote tripping switch disconnector (SW-NA); They enable tripping upon a fault. They are fastened by clips (without tools) to the left side of the breaker. iMX+OF is shunt release with open/close contact

### Energy model used
- Energy model used: Belgium

### Impact indicators

<table>
<thead>
<tr>
<th>Impact indicators</th>
<th>Unit</th>
<th>Total</th>
<th>Manufacturing</th>
<th>Distribution</th>
<th>Installation</th>
<th>Use</th>
<th>End of Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contribution to mineral resources depletion</td>
<td>kg Sb eq</td>
<td>2.10E-04</td>
<td>1.06E-04</td>
<td>0*</td>
<td>0*</td>
<td>1.05E-04</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to the soil and water acidification</td>
<td>kg SO₂ eq</td>
<td>5.02E+00</td>
<td>9.36E-04</td>
<td>0*</td>
<td>0*</td>
<td>5.02E+00</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO₄³⁻ eq</td>
<td>3.04E-01</td>
<td>3.72E-04</td>
<td>0*</td>
<td>0*</td>
<td>3.03E-01</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to global warming</td>
<td>kg CO₂ eq</td>
<td>1.20E+03</td>
<td>4.35E-01</td>
<td>0*</td>
<td>0*</td>
<td>1.20E+03</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to ozone layer depletion</td>
<td>kg CFC11 eq</td>
<td>7.85E-05</td>
<td>1.14E-07</td>
<td>0*</td>
<td>0*</td>
<td>7.84E-05</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to photochemical oxidation</td>
<td>kg C₂H₄ eq</td>
<td>2.76E-01</td>
<td>1.01E-04</td>
<td>0*</td>
<td>0*</td>
<td>2.76E-01</td>
<td>0*</td>
</tr>
</tbody>
</table>

### Resources use

<table>
<thead>
<tr>
<th>Resources use</th>
<th>Unit</th>
<th>Total</th>
<th>Manufacturing</th>
<th>Distribution</th>
<th>Installation</th>
<th>Use</th>
<th>End of Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net use of freshwater</td>
<td>m³</td>
<td>4.37E+03</td>
<td>0*</td>
<td>0*</td>
<td>4.37E+03</td>
<td>0*</td>
<td></td>
</tr>
<tr>
<td>Total Primary Energy</td>
<td>MJ</td>
<td>2.40E+04</td>
<td>4.37E+00</td>
<td>0*</td>
<td>0*</td>
<td>2.40E+04</td>
<td>0*</td>
</tr>
</tbody>
</table>
### Impact Indicators

**iAUXILIARY iMX+OF - A9A26946**

**Contribution to fossil resources depletion**
- **MJ**: 1.37E+04
- **Total**: 0*
- **Manufacturing**: 3.40E+00
- **Distribution**: 0*
- **Installation**: 0*
- **Use**: 1.37E+04
- **End of Life**: 0*

**Contribution to air pollution**
- **m³**: 5.19E+04
- **Total**: 0*
- **Manufacturing**: 1.11E+02
- **Distribution**: 0*
- **Installation**: 0*
- **Use**: 5.18E+04
- **End of Life**: 0*

**Contribution to water pollution**
- **m³**: 4.99E+04
- **Total**: 0*
- **Manufacturing**: 1.82E+02
- **Distribution**: 0*
- **Installation**: 0*
- **Use**: 4.97E+04
- **End of Life**: 0*

**Resources use**

- **Use of secondary material**
  - **kg**: 1.91E-03
    - **Total**: 0*
    - **Manufacturing**: 1.91E-03
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 0*
    - **End of Life**: 0*

- **Total use of renewable primary energy resources**
  - **MJ**: 3.06E+03
    - **Total**: 0*
    - **Manufacturing**: 5.09E-01
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 3.06E+03
    - **End of Life**: 0*

- **Total use of non-renewable primary energy resources**
  - **MJ**: 2.10E+04
    - **Total**: 0*
    - **Manufacturing**: 3.86E+00
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 2.10E+04
    - **End of Life**: 0*

- **Use of renewable primary energy excluding renewable primary energy used as raw material**
  - **MJ**: 3.06E+03
    - **Total**: 0*
    - **Manufacturing**: 0*
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 3.06E+03
    - **End of Life**: 0*

- **Use of renewable primary energy resources used as raw material**
  - **MJ**: 3.56E+03
    - **Total**: 0*
    - **Manufacturing**: 3.56E-01
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 0*
    - **End of Life**: 0*

- **Use of non renewable primary energy excluding non renewable primary energy used as raw material**
  - **MJ**: 2.10E+04
    - **Total**: 0*
    - **Manufacturing**: 2.80E+00
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 2.10E+04
    - **End of Life**: 0*

- **Use of renewable primary energy resources used as raw material**
  - **MJ**: 1.06E+00
    - **Total**: 0*
    - **Manufacturing**: 1.06E+00
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 0*
    - **End of Life**: 0*

- **Use of non renewable secondary fuels**
  - **MJ**: 0.00E+00
    - **Total**: 0*
    - **Manufacturing**: 0*
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 0*
    - **End of Life**: 0*

- **Use of renewable secondary fuels**
  - **MJ**: 0.00E+00
    - **Total**: 0*
    - **Manufacturing**: 0*
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 0*
    - **End of Life**: 0*

**Waste categories**

- **Hazardous waste disposed**
  - **kg**: 3.92E+00
    - **Total**: 0*
    - **Manufacturing**: 3.19E+00
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 6.28E-01
    - **End of Life**: 1.08E-01

- **Non hazardous waste disposed**
  - **kg**: 4.49E+03
    - **Total**: 0*
    - **Manufacturing**: 0*
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 4.49E+03
    - **End of Life**: 0*

- **Radioactive waste disposed**
  - **kg**: 3.00E+00
    - **Total**: 0*
    - **Manufacturing**: 0*
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 3.00E+00
    - **End of Life**: 0*

**Other environmental information**

- **Materials for recycling**
  - **kg**: 5.12E-02
    - **Total**: 0*
    - **Manufacturing**: 6.42E-03
    - **Distribution**: 1.78E-02
    - **Installation**: 0*
    - **Use**: 2.70E-02
    - **End of Life**: 0*

- **Components for reuse**
  - **kg**: 0.00E+00
    - **Total**: 0*
    - **Manufacturing**: 0*
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 0*
    - **End of Life**: 0*

- **Materials for energy recovery**
  - **kg**: 2.16E-03
    - **Total**: 0*
    - **Manufacturing**: 2.74E-04
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 1.88E-03
    - **End of Life**: 0*

- **Exported Energy**
  - **MJ**: 0.00E+00
    - **Total**: 0*
    - **Manufacturing**: 0*
    - **Distribution**: 0*
    - **Installation**: 0*
    - **Use**: 0*
    - **End of Life**: 0*

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

Life cycle assessment performed with EIME version EIME v5.8.0, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).
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.

<table>
<thead>
<tr>
<th>Registration number</th>
<th>ENVPEP1305024_V2-EN</th>
<th>Drafting rules</th>
<th>PCR-ed3-EN-2015 04 02</th>
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</thead>
<tbody>
<tr>
<td>Date of issue</td>
<td>10/2018</td>
<td>Supplemented by</td>
<td>PSR-0005-ed2-EN-2016 03 29</td>
</tr>
<tr>
<td>Validity period</td>
<td>5 years</td>
<td>Information and reference documents</td>
<td><a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a></td>
</tr>
</tbody>
</table>

Independent verification of the declaration and data

Internal × External

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »

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