Product Environmental Profile

Power supply module
Modicon X80
General information

Representative product: Power supply module - BMXCPS4002

Description of the product: BMXCPS**** power supply modules provide the power supply for each BMEXBP**** or BMXXBP**** Modicon X80 I/O rack and the modules installed on it.

Functional unit: BMXCPS**** power supply modules provide the power supply for each BMEXBP**** or BMXXBP**** Modicon X80 I/O rack and the modules installed on it for 20 years with a 100% use rate.

Constituent materials

Reference product mass: 583.4 g including the product, its packaging and additional elements and accessories.

Plastics - 41.4%
Metals - 2.6%
Others - 56.0%

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 http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page
### Additional environmental information

The Power supply module presents the following relevant environmental aspects

<table>
<thead>
<tr>
<th>Manufacturing</th>
<th>Distribution</th>
<th>Installation</th>
<th>Use</th>
<th>End of life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufactured at a Schneider Electric production site ISO14001 certified</td>
<td>Weight and volume of the packaging optimized, based on the European Union's packaging directive</td>
<td>BMXCPS4002 and assimilated do not require any installation operation</td>
<td>The product does not require special maintenance operations.</td>
<td>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resources</th>
<th>Net use of freshwater</th>
<th>Total Primary Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
<td>m³</td>
<td>MJ</td>
</tr>
<tr>
<td>2017</td>
<td>2.16E+01</td>
<td>1.17E+05</td>
</tr>
</tbody>
</table>

### Environmental impacts

#### Reference life time
20 years

#### Product category
Other equipments - Active product

#### Installation elements
Screwdriver

#### Use scenario
The product is in active mode 100% of the time with a power use of 70 W

#### Geographical representativeness
Europe, Asia, America

#### Technological representativeness
BMXCPS**** power supply modules provide the power supply for each BMEXBP**** or BMXXBP**** Modicon X80 I/O rack and the modules installed on it

<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: Indonesia</td>
<td>Electricity mix; AC; consumption mix, at consumer; 110V; TW</td>
<td>Electricity mix; AC; consumption mix, at consumer; 110V; TW</td>
<td>Electricity mix; AC; consumption mix, at consumer; 110V; TW</td>
<td></td>
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<table>
<thead>
<tr>
<th>Compulsory indicators</th>
<th>Power supply module - BMXCPS4002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impact indicators</td>
<td>Unit</td>
</tr>
<tr>
<td>Contribution to mineral resources depletion</td>
<td>kg Sb eq</td>
</tr>
<tr>
<td>Contribution to the soil and water acidification</td>
<td>kg SO2 eq</td>
</tr>
<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO4 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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resources use</th>
<th>Net use of freshwater</th>
<th>Total Primary Energy</th>
</tr>
</thead>
<tbody>
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<td>m³</td>
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<tr>
<td>2017</td>
<td>2.16E+01</td>
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</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).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range. Depending on the impact analysis, the environmental indicators of other products in this family may be proportionally extrapolated by energy consumption values.

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.

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Optional indicators

- Contribution to fossil resources depletion
- Contribution to air pollution
- Contribution to water pollution
- Use of renewable primary energy resources
- Use of renewable primary energy excluding renewable primary energy used as raw material
- Use of renewable primary energy resources used as raw material
- Use of non-renewable primary energy excluding non-renewable primary energy used as raw material
- Use of non-renewable primary energy resources used as raw material
- Use of non-renewable secondary fuels
- Use of renewable secondary fuels
- Waste categories
  - Hazardous waste disposed
  - Non-hazardous waste disposed
  - Radioactive waste disposed
- Other environmental information
  - Materials for recycling
  - Components for reuse
  - Materials for energy recovery
  - Exported Energy

* 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 in compliance with ISO14044.

**ENVPEP1710011EN_V1**

10/2017
<table>
<thead>
<tr>
<th>Registration number</th>
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<th>Drafting rules</th>
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<tr>
<td>Date of issue</td>
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<td>Validity period</td>
<td>5 years</td>
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<tr>
<td>Independence verification of the declaration and data</td>
<td>Internal X External</td>
<td>Information and reference documents</td>
<td><a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a></td>
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</tbody>
</table>

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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