Product Environmental Profile

10A 1G 2P UNI + 3 FLAT P CN SOCKET
General information

Representative product
10A 1G 2P UNI + 3 FLAT P CN SOCKET -E82426_10US

Description of the product
Connect the appliance into main circuit

Functional unit
Connect/Disconnect during 20 years the plug of a load consuming 10A under a voltage of 250V while protecting the user from direct contact with live parts and with a protection class IP 21.

Constituent materials

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

- nylon 6 granulate (PA 6) - 1.9%
- copper - 10.8%
- tungsten - 6%
- steel 35% recycled - 4.3%
- steel - 2.8%
- paper ;virgin firber - 4.2%
- polycarbonate (PC) - 67.3%
- cardboard 83.4% recycled - 2.7%

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 10A 1G 2P UNI + 3 FLAT P CN SOCKET 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 5.8 g, consisting of Paper (5.75 g)
- Product distribution optimised by setting up local distribution centres

**Installation**
- Reference E82426_10US 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: 17%


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**Environmental impacts**

**Reference life time**
- 20 years

**Product category**
- Passive products - non-continuous operation

**Installation elements**
- No special components needed

**Use scenario**
- Product dissipation is 0.0261 W full load, loading rate is 30% and service uptime percentage is 30%

**Geographical representativeness**
- China

**Technological representativeness**
- Connect the appliance into main circuit

**Energy model used**
- **Manufacturing**: Energy model used: China(SEMC)
- **Installation**: Electricity mix; AC; consumption mix, at consumer; 220V; CN
- **Use**: Electricity mix; AC; consumption mix, at consumer; 220V; CN
- **End of life**: Electricity mix; AC; consumption mix, at consumer; 220V; CN

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**Compulsory 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>2.98E-05</td>
<td>2.98E-05</td>
<td>0*</td>
<td>0*</td>
<td>6.13E-09</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to the soil and water acidification</td>
<td>kg SO2 eq</td>
<td>2.70E-03</td>
<td>1.09E-03</td>
<td>7.85E-05</td>
<td>1.73E-06</td>
<td>1.51E-03</td>
<td>2.42E-05</td>
</tr>
<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO4-3 eq</td>
<td>1.24E-03</td>
<td>8.09E-04</td>
<td>1.82E-05</td>
<td>4.10E-07</td>
<td>4.03E-04</td>
<td>7.21E-06</td>
</tr>
<tr>
<td>Contribution to global warming</td>
<td>kg CO2 eq</td>
<td>2.34E+00</td>
<td>9.14E-01</td>
<td>1.68E-02</td>
<td>5.52E-04</td>
<td>1.40E+00</td>
<td>1.48E-02</td>
</tr>
<tr>
<td>Contribution to ozone layer depletion</td>
<td>kg CFC11 eq</td>
<td>6.78E-08</td>
<td>5.60E-08</td>
<td>3.40E-11</td>
<td>4.54E-11</td>
<td>1.11E-08</td>
<td>5.84E-10</td>
</tr>
<tr>
<td>Contribution to photochemical oxidation</td>
<td>kg C2H4 eq</td>
<td>3.22E-04</td>
<td>1.35E-04</td>
<td>5.68E-06</td>
<td>1.82E-07</td>
<td>1.79E-04</td>
<td>2.47E-06</td>
</tr>
</tbody>
</table>

**Resources use**

| Net use of freshwater | m3 | 4.09E-03 | 2.51E-03 | 1.50E-06 | 6.76E-07 | 1.56E-03 | 1.16E-05 |
| Total Primary Energy  | MJ  | 3.91E+01 | 1.52E+01 | 2.37E-01 | 9.46E-03 | 2.36E+01 | 1.28E-01 |
## Impact indicators

### Resources use

<table>
<thead>
<tr>
<th>Impact indicator</th>
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<th>Total</th>
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<th>End of Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contribution to fossil resources depletion</td>
<td>MJ</td>
<td>3.37E+01</td>
<td>1.15E+01</td>
<td>2.36E-01</td>
<td>7.81E-03</td>
<td>2.18E+01</td>
<td>1.06E-01</td>
</tr>
<tr>
<td>Contribution to air pollution</td>
<td>m³</td>
<td>2.04E+02</td>
<td>5.78E+01</td>
<td>7.87E-01</td>
<td>6.11E-02</td>
<td>1.45E+02</td>
<td>8.46E-01</td>
</tr>
<tr>
<td>Contribution to water pollution</td>
<td>m³</td>
<td>4.57E+02</td>
<td>3.84E+02</td>
<td>2.76E+00</td>
<td>6.53E-02</td>
<td>6.94E+01</td>
<td>1.07E+00</td>
</tr>
</tbody>
</table>

### Use of secondary material | kg | 1.47E-02 | 1.47E-02 | 0* | 0* | 0* | 0* |

### Total use of renewable primary energy resources | MJ | 1.27E+00 | 9.77E-02 | 3.16E-04 | 0* | 1.17E+00 | 0* |

### Total use of non-renewable primary energy resources | MJ | 3.79E+01 | 1.51E+01 | 2.37E-01 | 9.45E-03 | 2.24E+01 | 1.28E-01 |

### Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 1.21E+00 | 3.58E-02 | 3.16E-04 | 0* | 1.17E+00 | 1.27E-04 |

### Use of renewable primary energy resources used as raw material | MJ | 6.19E-02 | 6.19E-02 | 0* | 0* | 0* | 0* |

### Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 3.58E+01 | 1.30E+01 | 2.37E-01 | 9.45E-03 | 2.24E+01 | 1.28E-01 |

### Use of non renewable primary energy resources used as raw material | MJ | 2.06E+00 | 2.06E+00 | 0* | 0* | 0* | 0* |

### Use of non renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |

### Use of renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |

### Waste categories

<table>
<thead>
<tr>
<th>Impact indicator</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>Hazardous waste disposed</td>
<td>kg</td>
<td>6.35E-01</td>
<td>4.36E-01</td>
<td>0*</td>
<td>1.16E-02</td>
<td>4.50E-02</td>
<td>1.42E-01</td>
</tr>
<tr>
<td>Non hazardous waste disposed</td>
<td>kg</td>
<td>3.11E-01</td>
<td>5.67E-02</td>
<td>9.66E-04</td>
<td>0*</td>
<td>2.53E-01</td>
<td>3.51E-04</td>
</tr>
<tr>
<td>Radioactive waste disposed</td>
<td>kg</td>
<td>5.40E-05</td>
<td>4.47E-05</td>
<td>4.24E-07</td>
<td>4.27E-08</td>
<td>8.34E-06</td>
<td>5.68E-07</td>
</tr>
</tbody>
</table>

### Other environmental information

<table>
<thead>
<tr>
<th>Impact indicator</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>Materials for recycling</td>
<td>kg</td>
<td>1.55E-02</td>
<td>1.95E-03</td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
<td>1.36E-02</td>
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<tr>
<td>Components for reuse</td>
<td>kg</td>
<td>0.00E+00</td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
</tr>
<tr>
<td>Materials for energy recovery</td>
<td>kg</td>
<td>2.80E-03</td>
<td>3.56E-04</td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
<td>2.45E-03</td>
</tr>
<tr>
<td>Exported Energy</td>
<td>MJ</td>
<td>0.00E+00</td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
<td>0*</td>
</tr>
</tbody>
</table>

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

Life cycle assessment performed with EIME version EIME v5.5, database version 2015-04.

The end of life 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 N°</th>
<th>SCHN-00038-V01.01-EN</th>
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<tbody>
<tr>
<td>Verifier accreditation N°</td>
<td>VH24</td>
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<td>Date of issue</td>
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<table>
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<tr>
<th>Drafting rules</th>
<th>PCR-ed3-EN-2015 04 02</th>
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<tr>
<td>Supplemented by</td>
<td>PSR-0005-ed2-EN-2012 12 11</td>
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<tr>
<td>Information and reference documents</td>
<td><a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a></td>
</tr>
<tr>
<td>Validity period</td>
<td>5 years</td>
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</table>

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)

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

Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »

Schneider Electric Industries SAS

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http://www2.schneider-electric.com/sites/corporate/en/support/operations/local-operations/local-operations.page

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