Product Environmental Profile

13A 250V 1G SW SKT W LED, GH
### General information

**Representative product**
13A 250V 1G SW SKT W LED, GH - E8315N_WD

**Description of the product**
It is a socket to open or connect the electronic equipment into circuit.

**Functional unit**
Connect/Disconnect during 20 years the plug of a load consuming 13A under a voltage of 250V while protecting the user from direct contact with live parts and with a protection class IP65.

### Constituent materials

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

![Material Pie Chart]

- **PC Polycarbonate** - 32.2%
- **Electronic components** - 3.8%
- **Paper** - 1.5%
- **Plastics** - 33.4%
- **Steel** - 20.6%
- **Brass** - 3.9%
- **Silver** - 0.4%
- **PA Polyamide** - 1.2%
- **Cardboard** - 36.5%
- **Metals** - 24.9%
- **Others** - 41.8%

### Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
The 13A 250V 1G SW SKT W LED, GH 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 52.2 g, consisting of Cardboard(99.5%), Plastic film(0.5%)
Product distribution optimised by setting up local distribution centres

**Installation**
Reference E8315N_WD 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

Recyclability potential: **37%**

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### Environmental impacts

**Reference life time**
20 years

**Product category**
Power socket

**Installation elements**
No special components needed

**Use scenario**
Load rate: 50% of In
Use rate: 50% of the RLT

**Geographical representativeness**
Singapore, Hongkong

**Technological representativeness**
It is a socket to open or connect the electronic equipment into circuit.

**Energy model used**
Energy model used: Vietnam

**Impact indicators**

<table>
<thead>
<tr>
<th>Impact indicators</th>
<th>Unit</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>5.08E-05</td>
<td>5.07E-05</td>
<td>0*</td>
<td>0*</td>
<td>2.90E-08</td>
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<tr>
<td>Contribution to soil and water acidification</td>
<td>kg SO2 eq</td>
<td>2.06E-03</td>
<td>1.46E-03</td>
<td>7.95E-05</td>
<td>1.18E-05</td>
<td>4.84E-04</td>
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<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO4 eq</td>
<td>2.73E-03</td>
<td>2.67E-03</td>
<td>1.83E-05</td>
<td>2.93E-06</td>
<td>2.53E-05</td>
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<tr>
<td>Contribution to global warming</td>
<td>kg CO2 eq</td>
<td>7.34E-01</td>
<td>5.92E-01</td>
<td>1.74E-02</td>
<td>2.83E-03</td>
<td>1.06E-01</td>
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<tr>
<td>Contribution to ozone layer depletion</td>
<td>kg CFC11 eq</td>
<td>5.98E-08</td>
<td>5.92E-08</td>
<td>3.53E-11</td>
<td>6.46E-12</td>
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<td>Contribution to photochemical oxidation</td>
<td>kg C2H4 eq</td>
<td>1.95E-04</td>
<td>1.60E-04</td>
<td>5.68E-06</td>
<td>8.82E-07</td>
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<td>Resources use</td>
<td>Unit</td>
<td>Total</td>
<td>Distribution</td>
<td>Installation</td>
<td>Use</td>
<td>End of Life</td>
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<td>Net use of freshwater</td>
<td>m3</td>
<td>2.89E+00</td>
<td>3.58E-03</td>
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<td>0*</td>
<td>2.89E+00</td>
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<td>Total Primary Energy</td>
<td>MJ</td>
<td>1.51E+01</td>
<td>1.25E+01</td>
<td>2.46E-01</td>
<td>3.70E-02</td>
<td>2.20E+00</td>
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**Contribution to the soil and water acidification**: AC; consumption mix, at consumer; 230V; LV

**Contribution to water eutrophication**: AC; consumption mix, at consumer; 230V; LV

**Contribution to global warming**: AC; consumption mix, at consumer; 230V; LV

**Contribution to ozone layer depletion**: AC; consumption mix, at consumer; 230V; LV

**Contribution to photochemical oxidation**: AC; consumption mix, at consumer; 230V; LV


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**Geographical representativeness**

The geographical representativeness is based on the geographical origin of materials and energy used for the manufacturing of the product.

**Technological representativeness**

The technological representativeness is based on the design and manufacturing process of the product.

**Energy model used**

The energy model used for the environmental impact assessment is Vietnam.
Life cycle assessment performed with EIME version EIME v5.6.0.1, database version 2016-11 in compliance with ISO14044.

The manufacturing 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.

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<thead>
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<th>Registration number</th>
<th>SCHN-00280-V01.01-EN</th>
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<tr>
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<td>Information and reference documents</td>
<td><a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a></td>
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<th>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</th>
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<td>Internal</td>
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The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)

PEP are compliant with XP C08-100-1 :2014

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 »

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