# Product Environmental Profile

## 13A Twin Gang DP Switched socket

Schneider Electric

# General information

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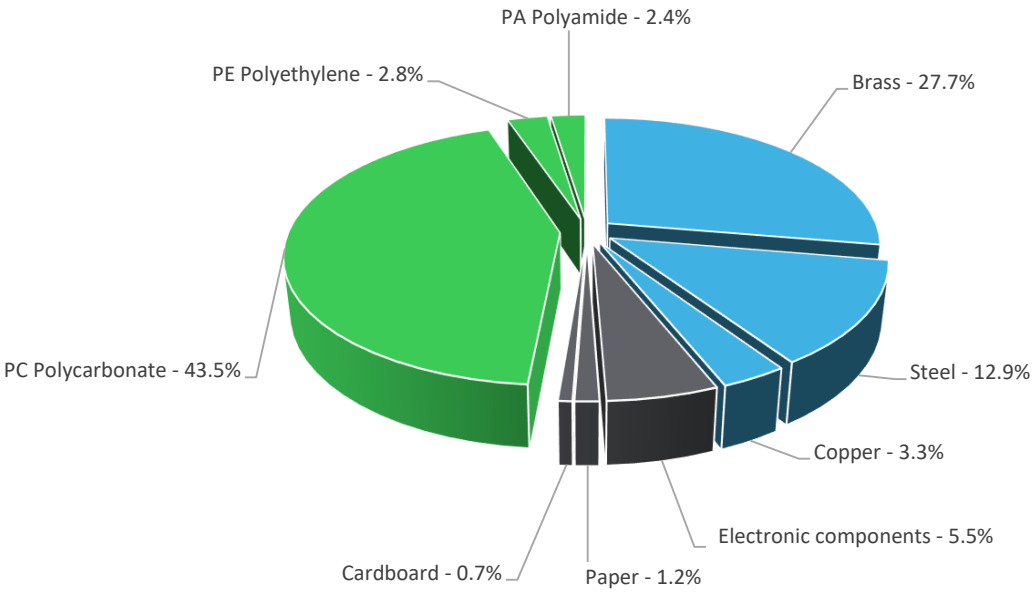
|---|---|
| **Representative product** | 13A Twin Gang DP Switched socket - MGU5.066.18 |
| **Description of the product** | The main purpose of Socket is to have 13A 2 Gang DP Switched socket-contacts engaging with the pins of a plug . |
| **Functional unit** | Connect/Disconnect during 20 years the 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 IP20. |

# Constituent materials

**Reference product mass** 182.4 g including the product, its packaging and additional elements and accessories




| | | |
|---|---|---|
| | Plastics | 48.7% |
| | Metals | 43.9% |
| | Others | 7.4% |

# Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the 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

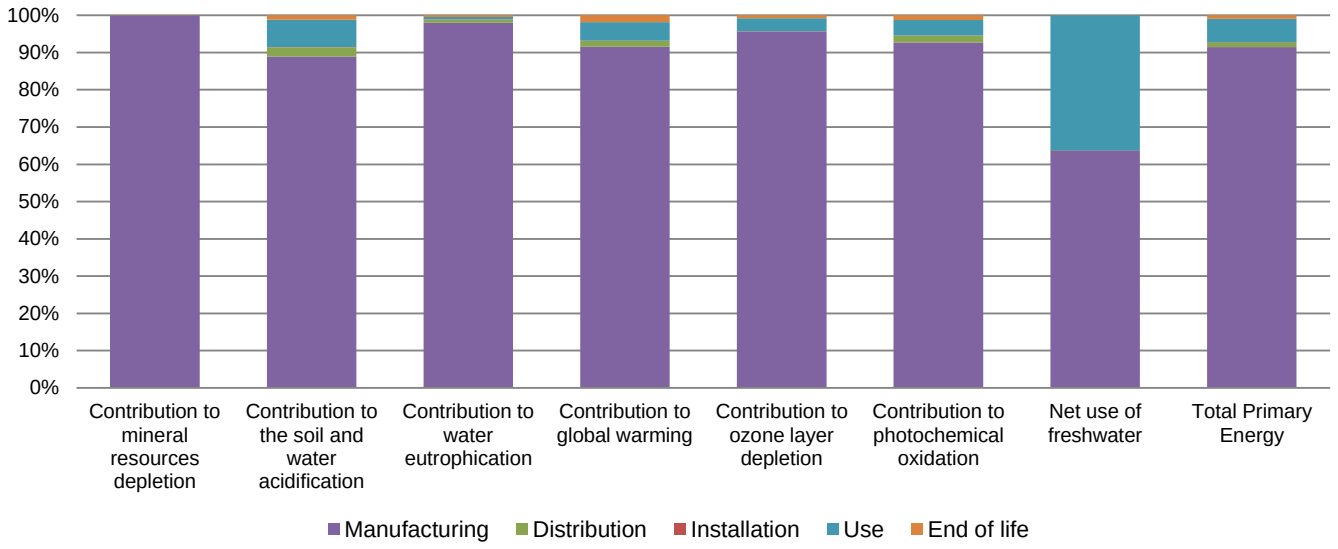
# Additional environmental information

| The 13A Twin Gang DP Switched socket presents the following relevent 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<br><br>Packaging weight is 12.4 g, consisting of cardboard (9.68%), PE (40.32%), paper (17.74%), steel (32.26%) |
| **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<br><br>No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.<br><br>Recyclability potential: **35%** Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME). |

# Environmental impacts

| | | | | |
|---|---|---|---|---|
| **Reference life time** | 20 years | | | |
| **Product category** | Power socket | | | |
| **Installation elements** | No special components needed | | | |
| **Use scenario** | The product is in active mode 30% of the time with a power use of 0.003W, for 20 years. | | | |
| **Geographical representativeness** | Europe | | | |
| **Technological representativeness** | The main purpose of Socket is to have 13A 2 Gang DP Switched socket-contacts engaging with the pins of a plug . | | | |
| **Energy model used** | **Manufacturing** | **Installation** | **Use** | **End of life** |
| | Energy model used: Malaysia | Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27 |

| **Compulsory indicators** | **13A Twin Gang DP Switched socket - MGU5.066.18** | | | | | | |
|---|---|---|---|---|---|---|---|
| **Impact indicators** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to mineral resources depletion | kg Sb eq | 8.63E-05 | 8.63E-05 | 0* | 0* | 0* | 0* |
| Contribution to the soil and water acidification | kg $SO_2$ eq | 4.38E-03 | 3.89E-03 | 1.07E-04 | 3.73E-06 | 3.22E-04 | 5.06E-05 |
| Contribution to water eutrophication | kg $PO_4^{3-}$ eq | 3.12E-03 | 3.06E-03 | 2.47E-05 | 3.36E-06 | 1.95E-05 | 1.44E-05 |
| Contribution to global warming | kg $CO_2$ eq | 1.54E+00 | 1.41E+00 | 2.35E-02 | 9.19E-04 | 7.73E-02 | 2.80E-02 |
| Contribution to ozone layer depletion | kg CFC11 eq | 1.45E-07 | 1.38E-07 | 4.77E-11 | 0* | 5.03E-09 | 1.18E-09 |
| Contribution to photochemical oxidation | kg $C_2H_4$ eq | 4.22E-04 | 3.91E-04 | 7.67E-06 | 2.82E-07 | 1.77E-05 | 5.23E-06 |
| **Resources use** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Net use of freshwater | m3 | 7.73E-01 | 4.93E-01 | 0* | 0* | 2.80E-01 | 0* |
| Total Primary Energy | MJ | 2.48E+01 | 2.27E+01 | 3.33E-01 | 1.12E-02 | 1.54E+00 | 2.44E-01 |




| Optional indicators | | 13A Twin Gang DP Switched socket - MGU5.066.18 | | | | | |
|---|---|---|---|---|---|---|---|
| **Impact indicators** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to fossil resources depletion | MJ | 1.65E+01 | 1.51E+01 | 3.31E-01 | 1.06E-02 | 8.77E-01 | 1.96E-01 |
| Contribution to air pollution | $m^3$ | 4.24E+02 | 4.18E+02 | 1.00E+00 | 7.32E-02 | 3.33E+00 | 1.77E+00 |
| Contribution to water pollution | $m^3$ | 3.88E+02 | 3.78E+02 | 3.87E+00 | 1.23E-01 | 3.19E+00 | 2.17E+00 |
| **Resources use** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Use of secondary material | kg | 9.14E-03 | 9.14E-03 | 0* | 0* | 0* | 0* |
| Total use of renewable primary energy resources | MJ | 8.35E-01 | 6.38E-01 | 4.43E-04 | 1.35E-04 | 1.96E-01 | 2.69E-04 |
| Total use of non-renewable primary energy resources | MJ | 2.40E+01 | 2.21E+01 | 3.32E-01 | 1.10E-02 | 1.35E+00 | 2.44E-01 |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 8.06E-01 | 6.09E-01 | 4.43E-04 | 1.35E-04 | 1.96E-01 | 2.69E-04 |
| Use of renewable primary energy resources used as raw material | MJ | 2.90E-02 | 2.90E-02 | 0* | 0* | 0* | 0* |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 2.09E+01 | 1.90E+01 | 3.32E-01 | 1.10E-02 | 1.35E+00 | 2.44E-01 |
| Use of non renewable primary energy resources used as raw material | MJ | 3.11E+00 | 3.11E+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** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Hazardous waste disposed | kg | 7.10E+00 | 6.82E+00 | 0* | 0* | 0* | 2.74E-01 |
| Non hazardous waste disposed | kg | 1.78E+00 | 1.48E+00 | 8.36E-04 | 6.62E-03 | 2.88E-01 | 7.45E-04 |
| Radioactive waste disposed | kg | 8.27E-04 | 6.33E-04 | 5.96E-07 | 1.58E-07 | 1.92E-04 | 1.19E-06 |
| **Other environmental information** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Materials for recycling | kg | 1.60E-01 | 9.68E-02 | 0* | 6.24E-03 | 0* | 5.72E-02 |
| Components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| Materials for energy recovery | kg | 4.09E-03 | 0* | 0* | 0* | 0* | 4.09E-03 |
| Exported Energy | MJ | 1.05E-05 | 8.02E-07 | 0* | 9.74E-06 | 0* | 0* |

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

*Life cycle assessment performed with EIME version EIME v5.9.4, database version 2022-01 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.*

| | | | |
|---|---|---|---|
| *Registration number* | ENVPEP1506006_V3 | *Drafting rules* | PCR-ed3-EN-2015 04 02 |
| *Date of issue* | 10/2022 | *Supplemented by* | PSR-0005-ed2-EN-2016 03 29 |
| *Validity period* | 5 years | *Information and reference documents* | www.pep-ecopassport.org |

*Independent verification of the declaration and data*

Internal X 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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