# Product Environmental Profile

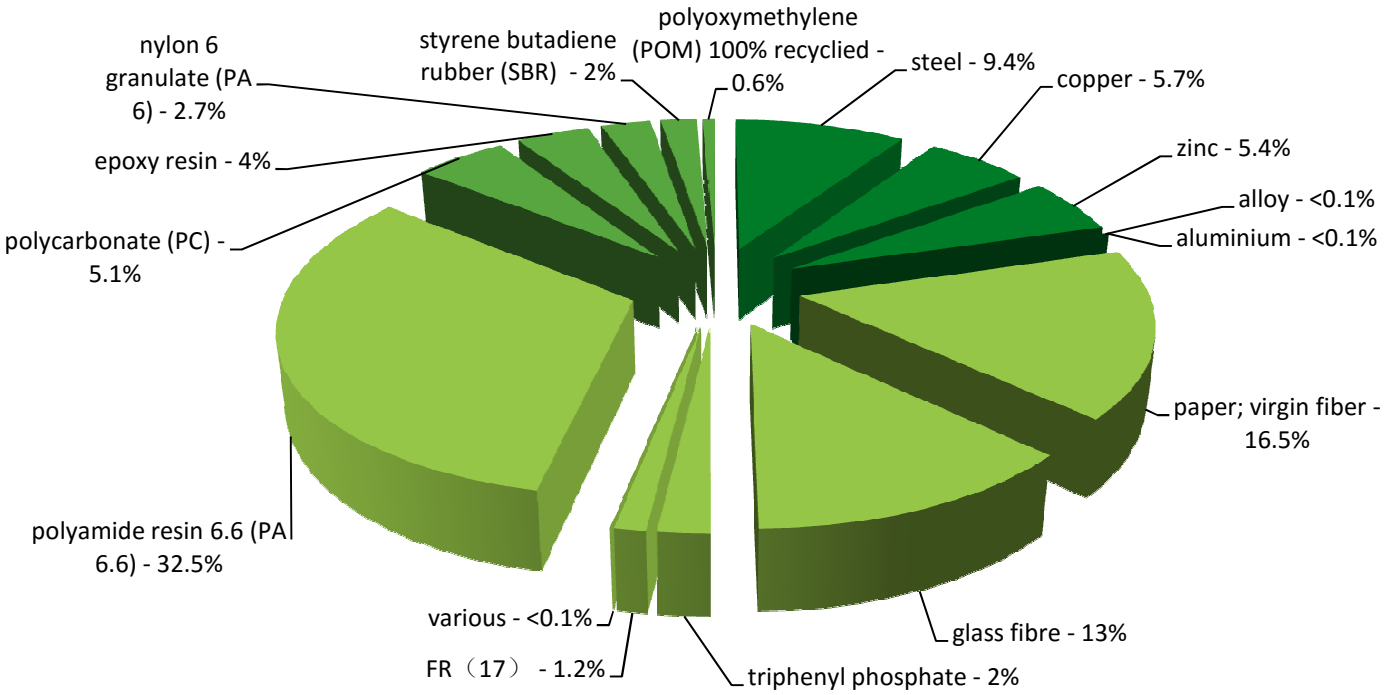
## 3-POLE MAIN AND EMERGENCY STOP SWITCH DISCONNECTORS ENCLOSED 25A

# General information

| | |
|---|---|
| **Representative product** | 3-POLE MAIN AND EMERGENCY STOP SWITCH DISCONNECTORS ENCLOSED 25A -VCF0 |
| **Description of the product** | Be combined to a switch disconnector fuse or a circuit breaker to protect the system. |
| **Functional unit** | Turn off all or part of an installation by separating the installation or part of the installation of all electrical energy or earth, for safety reasons with a rated voltage 400V and rated current 25A ensuring isolation characterized by rated voltage 690V.<br>This function is provided for 20 years. |

# Constituent materials

| | | |
|---|---|---|
| **Reference product mass** | 215.6 g | including the product, its packaging and additional elements and accessories |




# 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

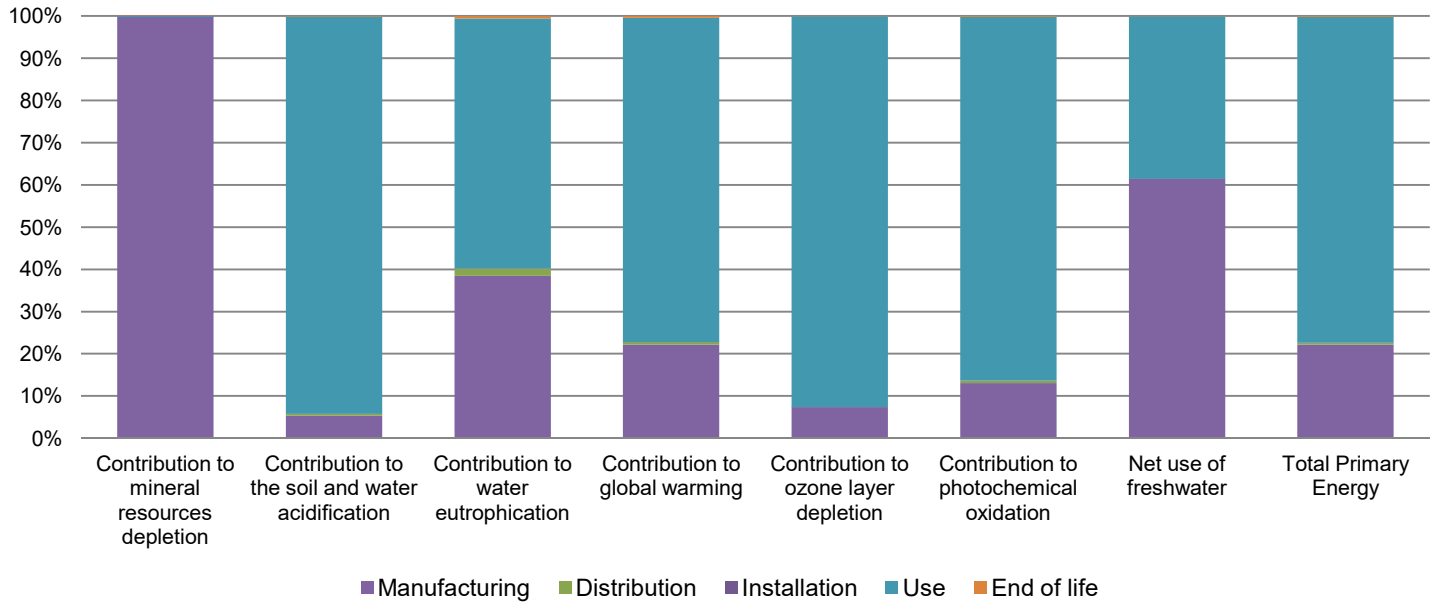
# Additional environmental information

| The 3-POLE MAIN AND EMERGENCY STOP SWITCH DISCONNECTORS ENCLOSED 25A presents the following relevent | |
|---|---|
| **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>Packaging weight is 34.6 g, consisting of Cardboard 26.5g, paper 8.1g<br>Product distribution optimised by setting up local distribution centres |
| **Installation** | Reference VCF0 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<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: **30%** 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** | Passive products - non-continuous operation | | | |
| **Installation elements** | No special components needed | | | |
| **Use scenario** | Product dissipation is 0.189 W full load, loading rate is 30% and service uptime percentage is 30% | | | |
| **Geographical representativeness** | Europe | | | |
| **Technological representativeness** | Be combined to a switch disconnector fuse or a circuit breaker to protect the system. | | | |
| **Energy model used** | **Manufacturing** | **Installation** | **Use** | **End of life** |
| | Energy model used: France | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 |

| **Compulsory indicators** | | **3-POLE MAIN AND EMERGENCY STOP SWITCH DISCONNECTORS ENCLOSED 25A - VCF0** | | | | | |
|---|---|---|---|---|---|---|---|
| **Impact indicators** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to mineral resources depletion | kg Sb eq | 1.43E-04 | 1.43E-04 | 0* | 0* | 2.67E-07 | 0* |
| Contribution to the soil and water acidification | kg $SO_2$ eq | 4.71E-02 | 2.51E-03 | 2.01E-04 | 1.04E-05 | 4.44E-02 | 5.45E-05 |
| Contribution to water eutrophication | kg $PO_4^{3-}$ eq | 2.81E-03 | 1.08E-03 | 4.66E-05 | 2.46E-06 | 1.66E-03 | 1.65E-05 |
| Contribution to global warming | kg $CO_2$ eq | 7.64E+00 | 1.69E+00 | 4.32E-02 | 3.31E-03 | 5.87E+00 | 3.47E-02 |
| Contribution to ozone layer depletion | kg CFC11 eq | 1.54E-06 | 1.14E-07 | 0* | 2.72E-10 | 1.42E-06 | 1.27E-09 |
| Contribution to photochemical oxidation | kg $C_2H_4$ eq | 2.43E-03 | 3.17E-04 | 1.46E-05 | 1.09E-06 | 2.10E-03 | 5.57E-06 |
| **Resources use** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Net use of freshwater | m3 | 3.97E-02 | 2.44E-02 | 0* | 4.05E-06 | 1.53E-02 | 2.65E-05 |
| Total Primary Energy | MJ | 1.54E+02 | 3.41E+01 | 6.09E-01 | 5.67E-02 | 1.19E+02 | 2.89E-01 |




| Optional indicators | | 3-POLE MAIN AND EMERGENCY STOP SWITCH DISCONNECTORS ENCLOSED 25A - VCF0 | | | | | |
|---|---|---|---|---|---|---|---|
| **Impact indicators** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to fossil resources depletion | MJ | 8.55E+01 | 2.42E+01 | 6.05E-01 | 4.68E-02 | 6.04E+01 | 2.38E-01 |
| Contribution to air pollution | m³ | 5.43E+02 | 2.87E+02 | 2.02E+00 | 3.66E-01 | 2.52E+02 | 1.91E+00 |
| Contribution to water pollution | m³ | 4.73E+02 | 2.17E+02 | 7.08E+00 | 3.92E-01 | 2.46E+02 | 2.43E+00 |
| **Resources use** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Use of secondary material | kg | 6.16E-03 | 6.16E-03 | 0* | 0* | 0* | 0* |
| Total use of renewable primary energy resources | MJ | 9.22E+00 | 7.19E-01 | 0* | 0* | 8.50E+00 | 0* |
| Total use of non-renewable primary energy resources | MJ | 1.45E+02 | 3.34E+01 | 6.08E-01 | 5.67E-02 | 1.10E+02 | 2.88E-01 |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 8.61E+00 | 1.10E-01 | 0* | 0* | 8.50E+00 | 0* |
| Use of renewable primary energy resources used as raw material | MJ | 6.09E-01 | 6.09E-01 | 0* | 0* | 0* | 0* |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 1.41E+02 | 2.98E+01 | 6.08E-01 | 5.67E-02 | 1.10E+02 | 2.88E-01 |
| Use of non renewable primary energy resources used as raw material | MJ | 3.60E+00 | 3.60E+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 | 4.23E+00 | 3.86E+00 | 0* | 6.93E-02 | 0* | 3.00E-01 |
| Non hazardous waste disposed | kg | 2.21E+01 | 1.44E-01 | 0* | 0* | 2.19E+01 | 0* |
| Radioactive waste disposed | kg | 1.80E-02 | 9.87E-05 | 0* | 0* | 1.79E-02 | 0* |
| **Other environmental information** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Materials for recycling | kg | 6.02E-02 | 7.64E-03 | 0* | 0* | 0* | 5.25E-02 |
| Components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| Materials for energy recovery | kg | 6.84E-03 | 8.68E-04 | 0* | 0* | 0* | 5.97E-03 |
| Exported Energy | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |

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

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

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.*

| | | | |
|---|---|---|---|
| *Registration N°* | ENVPEP110227EN_V01.01-EN | *Drafting rules* | PCR-ed3-EN-2015 04 02 |
| *Date of issue* | 05-2016 | *Supplemented by* | PSR-0005-ed1-EN -2012 12 11 |
| *Validity period* | 5 years | *Information and reference* | www.pep-ecopassport.org |

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

Internal X External

*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*

*Country Customer Care Center:*
*http://www2.schneiderelectric.com/sites/corporate/en/support/operations/local-operations/local-operations.page*

*35, rue Joseph Monier*

*CS 30323*

*F- 92506 Rueil Malmaison Cedex*

*RCS Nanterre 954 503 439*
*Capital social 896 313 776 €*

www.schneider-electric.com

Published by Schneider Electric