

Product Environmental Profile

NSX250 DC EP 250A 4P TMD





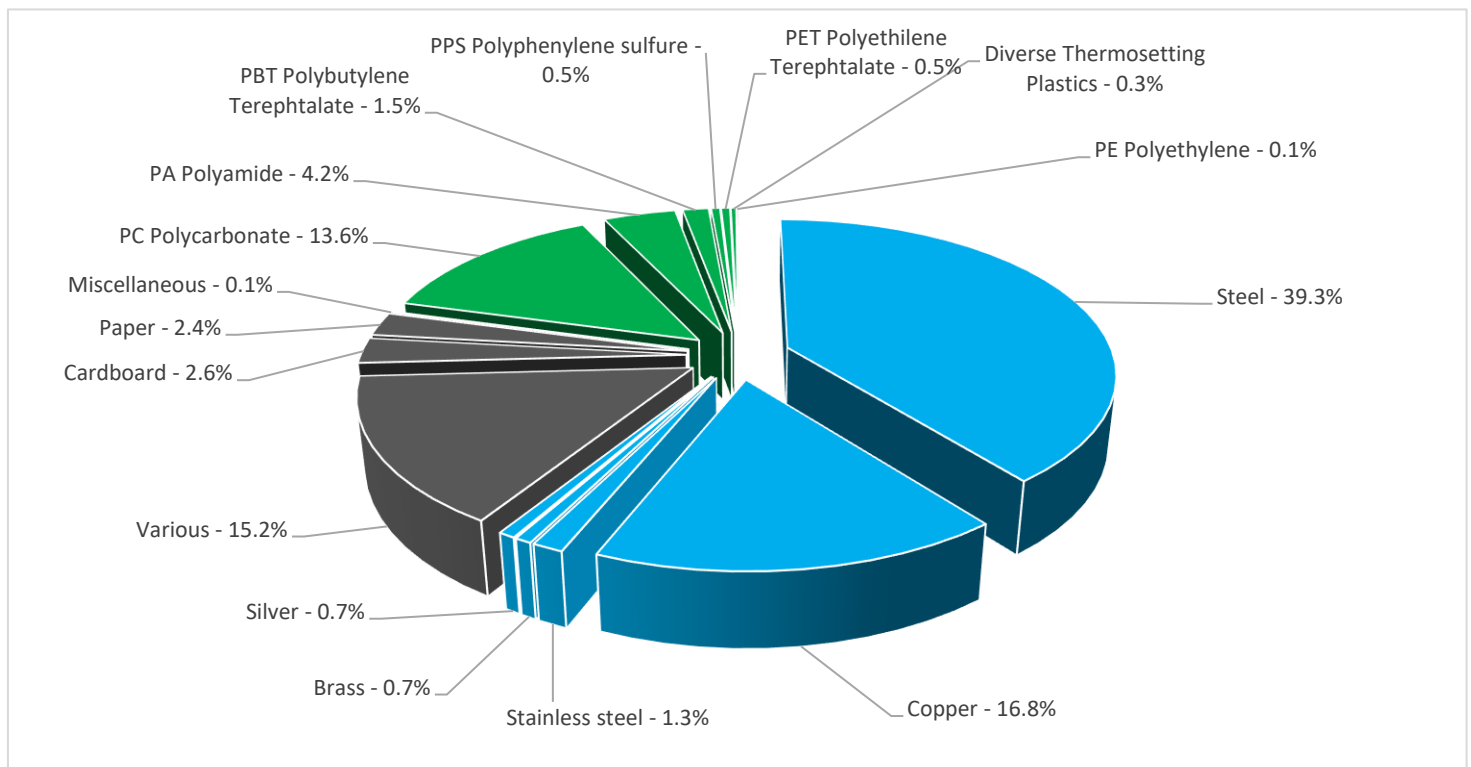
General information

| | |
|-----------------------------------|--|
| Representative product | NSX250 DC EP 250A 4P TMD - C25F4TM250D3 |
| Description of the product | The NSX250 DC1500V 250A 4P TMD is designed to provide protection against overloads and short-circuits for industrial and commercial electrical distribution systems with rated operational voltage of 1500 V DC and rated current of 250A. |
| Functional unit | This product is to protect the installation during 20 years against overloads and short-circuits in circuit with rated operational voltage 1500V DC and rated current 250A. This protection is ensured in accordance with the following parameters based on standard EN/IEC 60947-2: <ul style="list-style-type: none"> - Number of poles = 4 - Rated breaking capacity=20 kA Icu at 1500 V DC - Tripping curve = Long time and instantaneous protections |



Constituent materials

Reference product mass 2680 g including the product, its packaging and additional elements and accessories



| | |
|----------|-------|
| Plastics | 20.7% |
| Metals | 58.8% |
| Others | 20.2% |



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

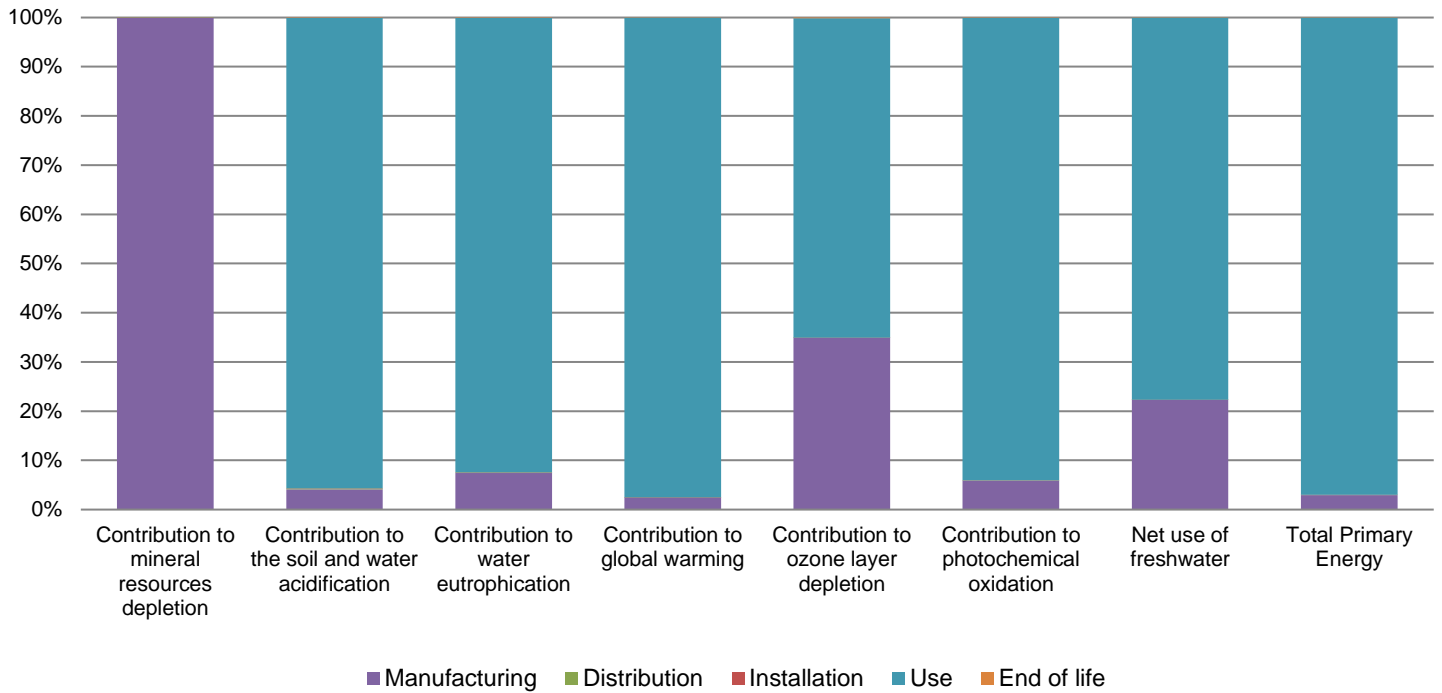
The NSX250 DC EP 250A 4P TMD presents the following relevant environmental aspects

| | |
|----------------------|---|
| 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 127.8 g, consisting of cardboard(86.62%), paper (13.38%) Product distribution optimised by setting up local distribution centres |
| Installation | Ref C25F4TM250D3 does not require any installation operations. |
| End of life | End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains plastic parts with brominated flame retardants (61.81g) that should be separated from the stream of waste so as to optimize end-of-life treatment. Recyclability potential: 57% 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 | Circuit-breakers | | | |
| Installation elements | No special components needed | | | |
| Use scenario | Load rate: 50% of In Use time rate: 30% of RLT | | | |
| Technological representativeness | The NSX250 DC1500V 250A 4P TMD is designed to provide protection against overloads and short-circuits for industrial and commercial electrical distribution systems with rated operational voltage of 1500 V DC and rated current of 250A. | | | |
| Energy model used | Manufacturing | Installation | Use | End of life |
| | Energy model used: China | Electricity mix; AC; consumption mix, at consumer; 220V; CN | Electricity mix; AC; consumption mix, at consumer; 220V; CN | Electricity mix; AC; consumption mix, at consumer; 220V; CN |

| Compulsory indicators | | NSX250 DC EP 250A 4P TMD - C25F4TM250D3 | | | | | |
|--|-------------------------------------|---|---------------|--------------|--------------|----------|-------------|
| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to mineral resources depletion | kg Sb eq | 1.64E-02 | 1.64E-02 | 0* | 0* | 4.40E-06 | 0* |
| Contribution to the soil and water acidification | kg SO ₂ eq | 1.14E+00 | 4.70E-02 | 1.58E-03 | 0* | 1.09E+00 | 7.49E-04 |
| Contribution to water eutrophication | kg PO ₄ ³⁻ eq | 3.11E-01 | 2.31E-02 | 3.64E-04 | 0* | 2.87E-01 | 2.04E-04 |
| Contribution to global warming | kg CO ₂ eq | 1.03E+03 | 2.53E+01 | 3.46E-01 | 0* | 1.00E+03 | 3.74E-01 |
| Contribution to ozone layer depletion | kg CFC11 eq | 1.23E-05 | 4.29E-06 | 0* | 0* | 7.98E-06 | 1.67E-08 |
| Contribution to photochemical oxidation | kg C ₂ H ₄ eq | 1.37E-01 | 7.99E-03 | 1.13E-04 | 0* | 1.28E-01 | 7.85E-05 |
| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Net use of freshwater | m ³ | 1.44E+00 | 3.22E-01 | 0* | 0* | 1.12E+00 | 3.35E-04 |
| Total Primary Energy | MJ | 1.69E+04 | 5.02E+02 | 4.89E+00 | 0* | 1.64E+04 | 3.66E+00 |



■ Manufacturing ■ Distribution ■ Installation ■ Use ■ End of life

| Optional indicators | | NSX250 DC EP 250A 4P TMD - C25F4TM250D3 | | | | | |
|---|------|---|---------------|--------------|--------------|----------|-------------|
| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to fossil resources depletion | MJ | 1.55E+04 | 2.99E+02 | 4.86E+00 | 0* | 1.51E+04 | 2.94E+00 |
| Contribution to air pollution | m³ | 1.12E+05 | 8.22E+03 | 1.47E+01 | 0* | 1.04E+05 | 2.64E+01 |
| Contribution to water pollution | m³ | 5.21E+04 | 2.20E+03 | 5.69E+01 | 0* | 4.98E+04 | 3.13E+01 |
| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Use of secondary material | kg | 1.66E-01 | 1.66E-01 | 0* | 0* | 0* | 0* |
| Total use of renewable primary energy resources | MJ | 8.50E+02 | 8.24E+00 | 0* | 0* | 8.41E+02 | 0* |
| Total use of non-renewable primary energy resources | MJ | 1.61E+04 | 4.94E+02 | 4.88E+00 | 0* | 1.56E+04 | 3.65E+00 |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 8.48E+02 | 6.90E+00 | 0* | 0* | 8.41E+02 | 0* |
| Use of renewable primary energy resources used as raw material | MJ | 1.33E+00 | 1.33E+00 | 0* | 0* | 0* | 0* |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 1.60E+04 | 4.67E+02 | 4.88E+00 | 0* | 1.56E+04 | 3.65E+00 |
| Use of non renewable primary energy resources used as raw material | MJ | 2.67E+01 | 2.67E+01 | 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 | 2.08E+02 | 1.72E+02 | 0* | 0* | 3.23E+01 | 3.57E+00 |
| Non hazardous waste disposed | kg | 1.92E+02 | 9.91E+00 | 0* | 0* | 1.82E+02 | 0* |
| Radioactive waste disposed | kg | 1.22E-02 | 6.16E-03 | 8.75E-06 | 0* | 5.99E-03 | 1.76E-05 |
| Other environmental information | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Materials for recycling | kg | 1.76E+00 | 2.48E-01 | 0* | 7.22E-02 | 0* | 1.43E+00 |
| Components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| Materials for energy recovery | kg | 4.61E-02 | 0* | 0* | 0* | 0* | 4.61E-02 |
| Exported Energy | MJ | 2.30E-04 | 2.24E-05 | 0* | 2.08E-04 | 0* | 0* |

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

Life cycle assessment performed with EIME version EIME v5.9.1, database version 2016-11 in compliance with ISO14044.

The use phase and manufacturing phase are the life cycle phase which have 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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|--|------------------|--|--|
| <i>Registration number</i> | ENVPEP2106001_V1 | <i>Drafting rules</i> | PCR-ed3-EN-2015 04 02 |
| <i>Date of issue</i> | 06/2021 | <i>Supplemented by</i> | PSR-0005-ed2-EN-2016 03 29 |
| <i>Validity period</i> | 5 years | <i>Information and reference documents</i> | www.pep-ecopassport.org |
| <i>Independent verification of the declaration and data</i> | | | |
| Internal | X | External | |
| <i>The elements of the present PEP cannot be compared with elements from another program.</i> | | | |
| <i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i> | | | |

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