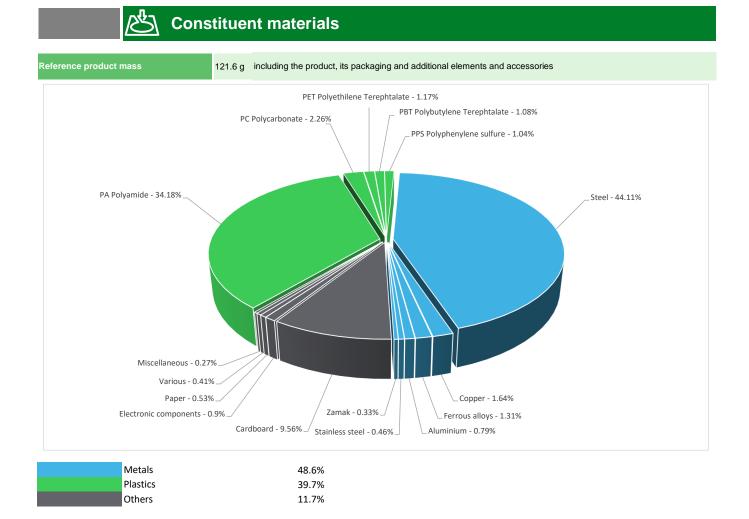
Product Environmental Profile

Easy9 BICO - MINIATURE CIRCUIT BREAKER





General information Reference product Easy9 MCB 1P 16A C 6000A 240V - EZ9F76116 Description of the product The Easy9 Bico Miniature Circuit Breaker provides protection of installation against short circuits and overload. Protect during 20 years the installation against overloads and short-circuits in circuit with an assigned voltage [U] of 240 V AC and rated current [In] of 16 A. This protection is ensured in accordance with the following parameters: - Number of poles [Np] - 1P - Rated breaking capacity [Cn] - 6000 A - Triping curve [Cd] - C - Degree of protection against the ingress of solid foreign objects and water with harmful effects in accordance with the standard IEC 60529 - IP20 This product complies with the IEC 60898-1 standard.



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information



Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).

Q Environmental impacts

| Reference service life time | 20 years | | | | | | | |
|----------------------------------|---|---|---|---|--|--|--|--|
| Product category | Circuit-breakers | | | | | | | |
| Installation elements | The product does not require special installation procedure and requires little to no energy to install. | | | | | | | |
| Use scenario | Load rate: 50% of 16A (In) Use time rate: 30% of the time over 20 years (RLT) | | | | | | | |
| Technological representativeness | The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production. | | | | | | | |
| Geographical representativeness | India | | | | | | | |
| | [A1 - A3] | [A5] | [B6] | [C1 - C4] | | | | |
| Energy model used | Electricity Mix; Production mix; Low voltage; IN | Electricity Mix; Production mix; Low voltage; IN | Electricity Mix; Production mix; Low voltage; IN | Electricity Mix; Production mix; Low voltage; IN | | | | |

Detailed results, including all the impact indicators mentioned in PCRed4, are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneiderelectric.com/contact

| Mandatory Indicators | | | Easy9 BICO - MINIATURE CIRCUIT BREAKER - EZ9F76116 | | | | | | |
|--|------------------|----------|--|--------------|--------------|-----------|-------------|-----------------------|--|
| Impact indicators | Unit | t Total | Manufacturing | Distribution | Installation | Use | End of Life | Loads and Benefits | |
| | | | [A1 - A3] | [A4] | [A5] | [B1 - B7] | [C1 - C4] | [D] | |
| Contribution to climate change | kg CO2 eq | 4.85E+01 | 6.73E-01 | 6.01E-02 | 2.15E-02 | 4.75E+01 | 2.96E-01 | -2.34E-01 | |
| Contribution to climate change-fossil | kg CO2 eq | 4.85E+01 | 6.66E-01 | 6.01E-02 | 2.06E-02 | 4.74E+01 | 2.96E-01 | -2.33E-01 | |
| Contribution to climate change-biogenic | kg CO2 eq | 1.24E-02 | 6.40E-03 | 0* | 9.56E-04 | 4.61E-03 | 4.87E-04 | -1.50E-03 | |
| Contribution to climate change-land use and land use char | ige kg CO2 eq | 6.54E-09 | 0* | 0* | 0* | 0* | 6.54E-09 | 0.00E+00 | |
| Contribution to ozone depletion | kg CFC-11 eq | 3.54E-07 | 7.81E-08 | 9.20E-11 | 1.42E-09 | 2.73E-07 | 1.21E-09 | -3.51E-08 | |
| Contribution to acidification | mol H+ eq | 3.68E-01 | 3.93E-03 | 3.82E-04 | 8.54E-05 | 3.63E-01 | 6.59E-04 | -1.66E-03 | |
| Contribution to eutrophication, freshwater | kg (PO4)³⁻ eq | 2.90E-05 | 1.07E-05 | 2.25E-08 | 1.55E-07 | 4.19E-06 | 1.40E-05 | -4.68E-07 | |
| Contribution to eutrophication marine | kg N eq | 3.93E-02 | 4.74E-04 | 1.79E-04 | 2.26E-05 | 3.85E-02 | 1.47E-04 | -1.42E-04 | |
| Contribution to eutrophication, terrestrial | mol N eq | 4.52E-01 | 5.20E-03 | 1.96E-03 | 1.71E-04 | 4.43E-01 | 1.29E-03 | -1.61E-03 | |
| Contribution to photochemical ozone formation - human health | kg COVNM eq | 1.31E-01 | 1.69E-03 | 4.95E-04 | 4.56E-05 | 1.28E-01 | 4.34E-04 | -5.71E-04 | |
| Contribution to resource use, minerals and metals | kg Sb eq | 1.20E-04 | 1.20E-04 | 0* | 0* | 3.21E-07 | 3.98E-07 | -6.62E-05 | |
| Contribution to resource use, fossils | MJ | 7.71E+02 | 1.19E+01 | 8.37E-01 | 2.24E-01 | 7.47E+02 | 1.12E+01 | -5.00E+00 | |
| Contribution to water use | m3 eq | 2.68E+00 | 0* | 0* | 9.19E-03 | 2.10E+00 | 6.99E-01 | -1.09E-01 | |

| Inventory flows Indicators | | | Easy9 BICO - MINIATURE CIRCUIT BREAKER - EZ9F76116 | | | | | | |
|---|------|----------|--|--------------|--------------|-----------|-------------|-----------------------|--|
| Inventory flows | Unit | Total | Manufact. | Distribution | Installation | Use | End of Life | Loads and Benefits | |
| | | | [A1 - A3] | [A4] | [A5] | [B1 - B7] | [C1 - C4] | [D] | |
| Contribution to use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 4.18E+01 | 1.82E-01 | 0* | 1.61E-02 | 4.16E+01 | 1.29E-02 | -1.01E-02 | |
| Contribution to use of renewable primary energy resources used as raw material | MJ | 8.40E-02 | 8.40E-02 | 0* | 0* | 0* | 0* | -7.17E-02 | |
| Contribution to total use of renewable primary energy resources | MJ | 4.19E+01 | 2.66E-01 | 0* | 1.61E-02 | 4.16E+01 | 1.29E-02 | -8.17E-02 | |
| Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 7.70E+02 | 1.06E+01 | 8.37E-01 | 2.24E-01 | 7.47E+02 | 1.12E+01 | -5.00E+00 | |
| Contribution to use of non renewable primary energy resources used as raw material | MJ | 1.22E+00 | 1.22E+00 | 0* | 0* | 0* | 0* | 0.00E+00 | |

| Contribution to total use of non-renewable primary energy resources | MJ | 7.71E+02 | 1.19E+01 | 8.37E-01 | 2.24E-01 | 7.47E+02 | 1.12E+01 | -5.00E+00 |
|---|---------|----------|----------|----------|----------|----------|----------|-----------|
| Contribution to use of secondary material | kg | 8.65E-03 | 8.65E-03 | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to use of renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to use of non renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to net use of freshwater | m³ | 6.43E-02 | 0* | 0* | 2.14E-04 | 4.89E-02 | 1.81E-02 | -2.53E-03 |
| Contribution to hazardous waste disposed | kg | 7.49E+00 | 5.92E+00 | 0* | 0* | 1.46E+00 | 1.08E-01 | -5.26E+00 |
| Contribution to non hazardous waste disposed | kg | 8.99E+00 | 6.34E-01 | 2.11E-03 | 7.00E-02 | 8.24E+00 | 4.68E-02 | -2.90E-01 |
| Contribution to radioactive waste disposed | kg | 5.75E-04 | 2.66E-04 | 1.50E-06 | 9.39E-06 | 2.96E-04 | 2.22E-06 | -9.67E-05 |
| Contribution to components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to materials for recycling | kg | 6.74E-02 | 0* | 0* | 1.18E-02 | 0* | 5.55E-02 | 0.00E+00 |
| Contribution to materials for energy recovery | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to exported energy | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to biogenic carbon content of the product | kg de C | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to biogenic carbon content of the associated packaging | kg de C | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |

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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

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 : | ENVPEP2402003_V1-EN | Drafting rules | PEP-PCR-ed4-2021 09 06 | | | | | |
|--|---------------------|--|-------------------------|--|--|--|--|--|
| Validity period | 5 years | Supplemented by | PSR-0005-ed2-2016 03 29 | | | | | |
| Date of issue | 03/2024 | Information and reference documents | www.pep-ecopassport.org | | | | | |
| Independent verification of the declaration and data, in compliance with ISO 14021 : 2016 | | | | | | | | |
| Internal X External | | | | | | | | |
| The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain) | | | | | | | | |
| PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019 | | | | | | | | |
| 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. Type II environmental declarations » | | | | | | | | |

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