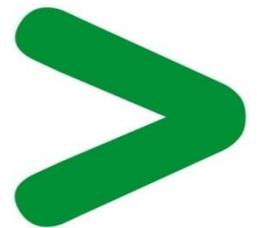


Product Environmental Profile

Easy9 Circuit breaker C120





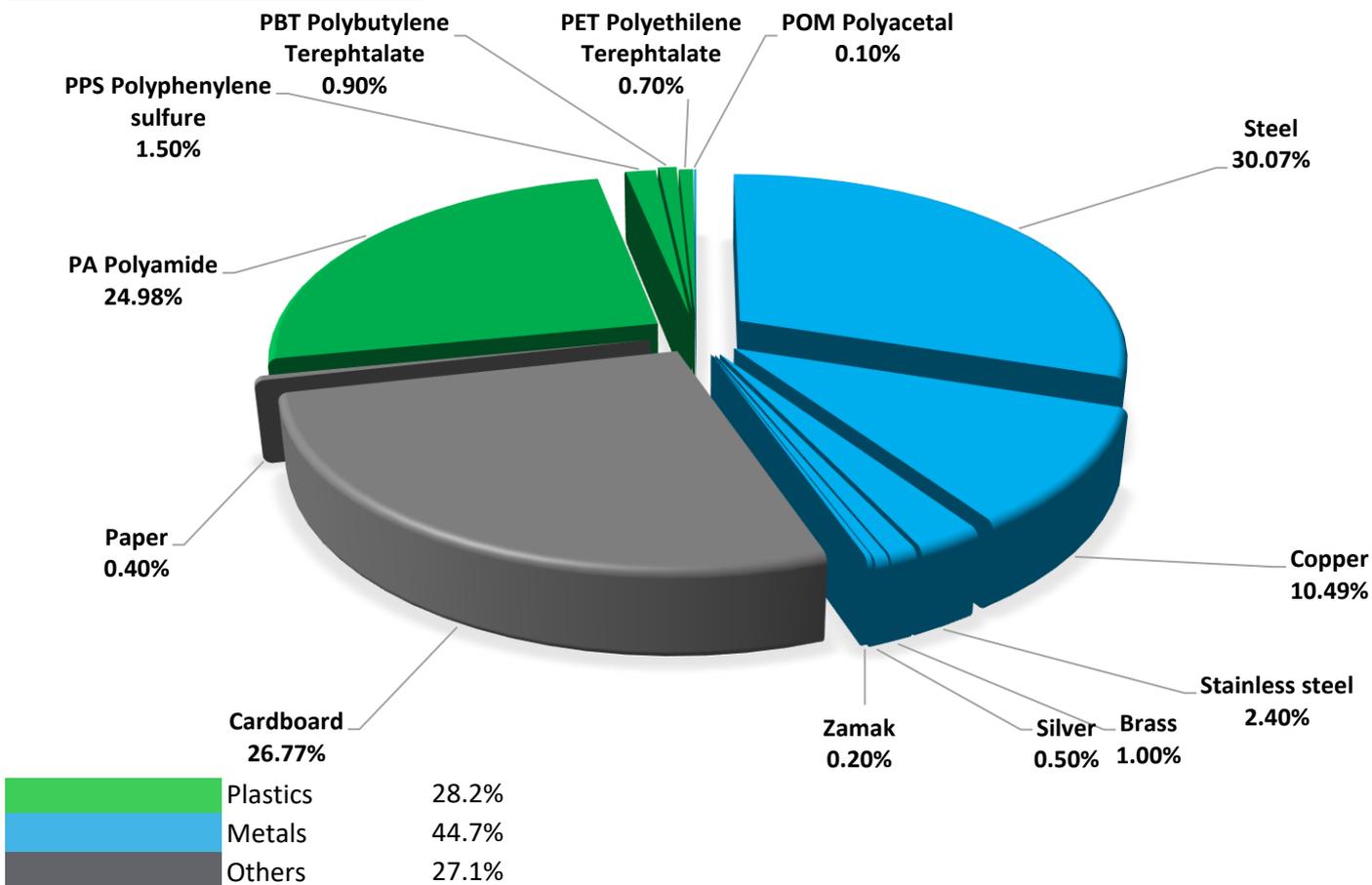
General information

Representative product	Easy9 Circuit breaker C120 - EA9AH1C80NEW
Description of the product	The main purpose of the C120 E9 is to provide overload protection and short circuit protection in low voltage power system. Product lifetime is 20 years.
Functional unit	Protect during 20 years the installation against overloads and short-circuits in circuit with assigned voltage 230/400V and rated current 80A. This protection is ensured in accordance with the following parameters: - Number of poles 1p - Rated breaking capacity 10 kA - Tripping curve C



Constituent materials

Reference product mass 281 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 EU 2015/863) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium, flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), or phthalates (Bis(2-ethylhexyl) phthalate - DEHP, Butyl benzyl 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 Easy9 Circuit breaker C120 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 76 g, consisting of cardboard(99%), paper(1%)
Installation	Ref EA9AH1C80NEW does not require any installation operations.
Use	The product does not require special maintenance operations.
End of life	<p>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</p> <p>This product contains Plastic parts with brominated FR(4g) that should be separated from the stream of waste so as to optimize end-of-life treatment.</p> <p>The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website</p> <p>http://www.2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</p> <p>Recyclability potential: 56% 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).</p>

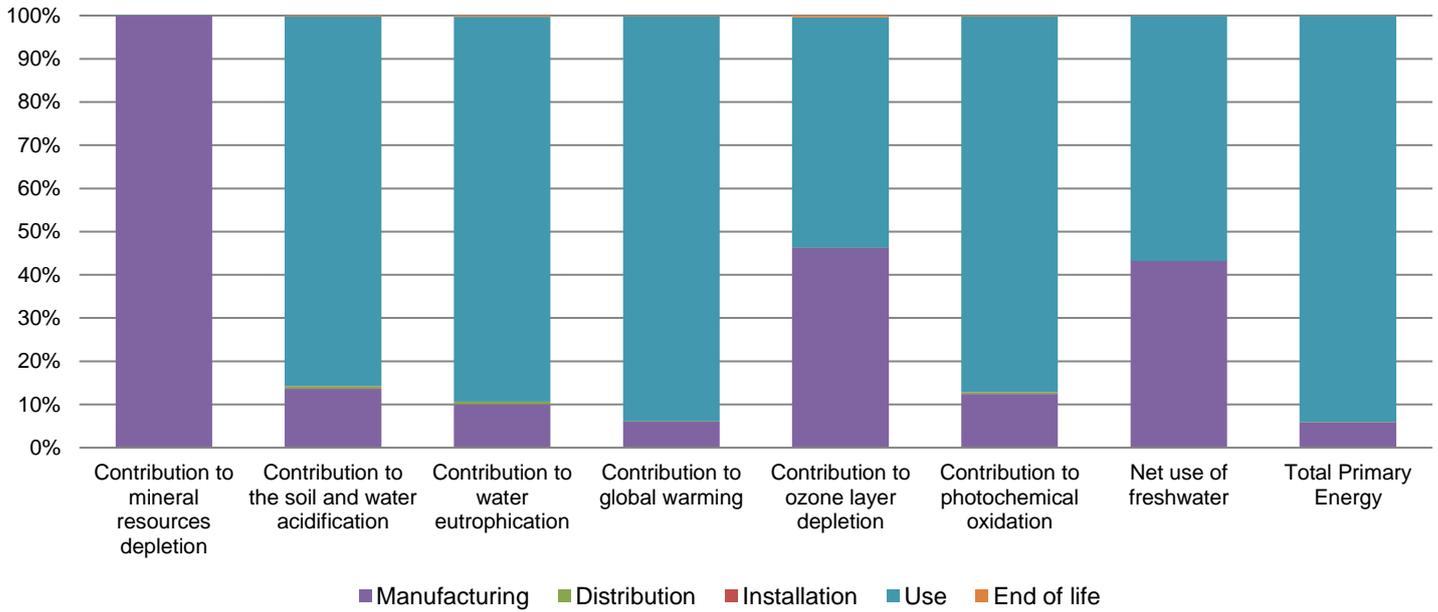


Environmental impacts

Reference life time	20 years		
Product category	Circuit-breakers		
Installation elements	The disposal of the packaging material is accounted for 27.05% during the installation phase		
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT		
Geographical representativeness	China		
Technological representativeness	The main purpose of the C120 E9 is to provide overload protection and short circuit protection in low voltage power system. Product lifetime is 20 years.		
Energy model used	Manufacturing	Installation	Use
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN
			End of life
			Electricity mix; AC; consumption mix, at consumer; 220V; CN

Compulsory indicators		Easy9 Circuit breaker C120 - EA9AH1C80NEW					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.69E-03	3.69E-03	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2.71E-02	3.70E-03	1.66E-04	1.71E-05	2.32E-02	6.11E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	6.87E-03	6.93E-04	3.81E-05	4.17E-06	6.12E-03	1.67E-05
Contribution to global warming	kg CO ₂ eq	2.28E+01	1.37E+00	3.63E-02	4.11E-03	2.14E+01	3.06E-02
Contribution to ozone layer depletion	kg CFC11 eq	3.20E-07	1.48E-07	7.34E-11	0*	1.70E-07	1.37E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	3.15E-03	3.92E-04	1.18E-05	1.28E-06	2.74E-03	6.40E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	4.21E-02	1.82E-02	0*	0*	2.39E-02	2.73E-05
Total Primary Energy	MJ	3.72E+02	2.16E+01	5.13E-01	5.37E-02	3.50E+02	2.98E-01

ENVPEP1503005_V2 - Product Environmental Profile - Easy9 Circuit breaker C120



Optional indicators		Easy9 Circuit breaker C120 - EA9AH1C80NEW					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3.34E+02	1.05E+01	5.09E-01	5.33E-02	3.23E+02	2.40E-01
Contribution to air pollution	m³	2.63E+03	4.06E+02	1.54E+00	0*	2.22E+03	2.15E+00
Contribution to water pollution	m³	1.34E+03	2.68E+02	5.96E+00	6.24E-01	1.06E+03	2.55E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.10E-02	1.10E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.00E+01	2.01E+00	0*	0*	1.79E+01	0*
Total use of non-renewable primary energy resources	MJ	3.52E+02	1.96E+01	5.12E-01	5.36E-02	3.32E+02	2.98E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.85E+01	5.07E-01	0*	0*	1.79E+01	0*
Use of renewable primary energy resources used as raw material	MJ	1.51E+00	1.51E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.51E+02	1.78E+01	5.12E-01	5.36E-02	3.32E+02	2.98E-01
Use of non renewable primary energy resources used as raw material	MJ	1.78E+00	1.78E+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	1.50E+01	1.40E+01	0*	0*	6.89E-01	2.93E-01
Non hazardous waste disposed	kg	4.51E+00	6.30E-01	1.29E-03	5.58E-04	3.88E+00	9.15E-04
Radioactive waste disposed	kg	5.40E-04	4.10E-04	9.17E-07	1.10E-07	1.28E-04	1.44E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.18E-01	2.79E-02	0*	7.56E-02	0*	1.15E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	3.77E-03	0*	0*	0*	0*	3.77E-03
Exported Energy	MJ	2.40E-04	2.26E-05	0*	2.18E-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 v5.8.1, database version 2016-11 in compliance with ISO14044.

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 number	ENVPEP1503005_V2	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	01/2021	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	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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