Product Environmental Profile

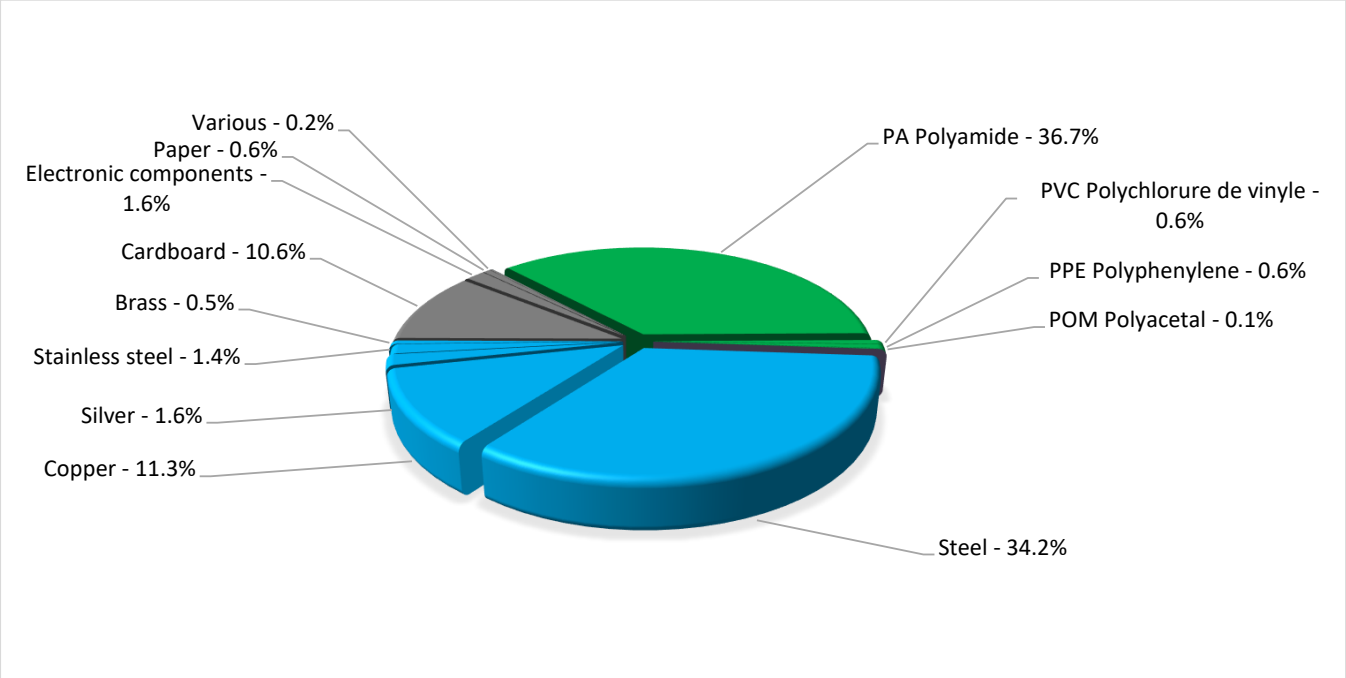
Easy9 RCBO

General information

Representative product	Easy9 RCBO - EZ9D34616
Description of the product	The main purpose of the EaSY9 RCBO is to ensure the following protection for 20 years: •Protection from short-circuits •Protection of cable from overloads •Protection of persons from electric shocks by direct contact (30mA sensitivity) •Can be fitted instead of a miniature circuit breaker for complete protection of one circuit.
Functional unit	Protect during 20 years the installation against overloads and short-circuits and people and premises at risk of fire or explosion against insulation defects in circuit with assigned voltage 230 V AC 50 Hz and rated current 16 A. This protection is ensured in accordance with the following parameters: - Number of poles 1P+N - Rated breaking capacity 4500 A - Tripping curve C - Sensitivity 30 mA - Type of differential protection AC Type

Constituent materials

Reference product mass	206.4 g	including the product, its packaging and additional elements and accessories



Plastics	38.0%
Metals	49.0%
Others	13.0%

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), 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

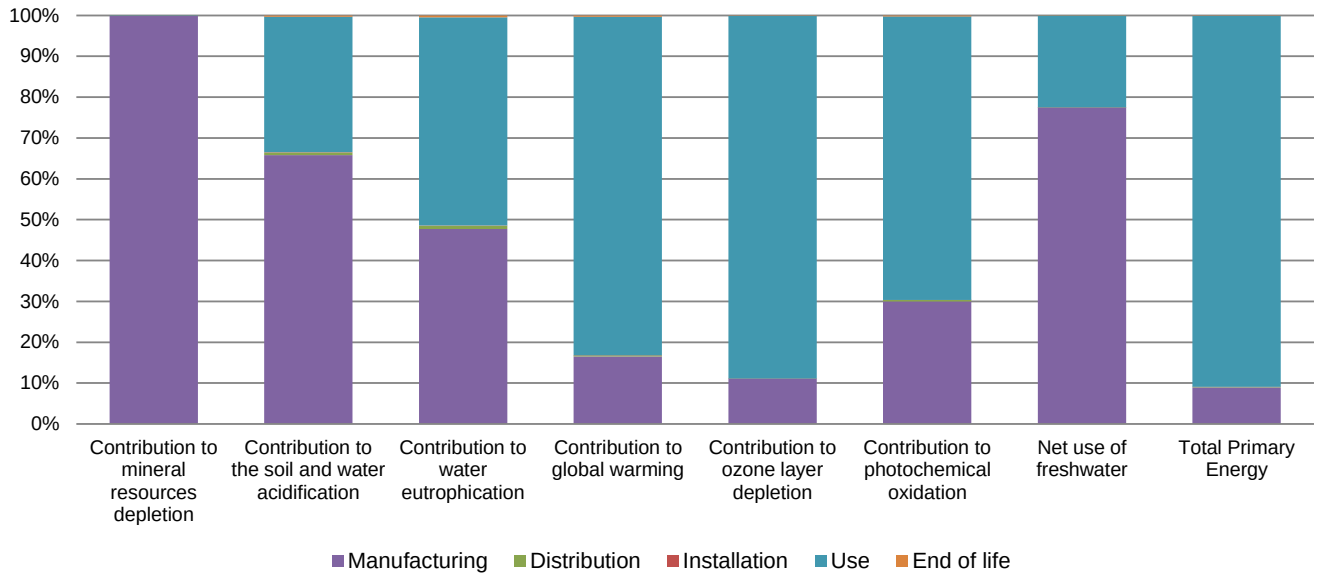
Additional environmental information

The Easy9 RCBO 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 Packaging weight is 24 g, consisting of Cardboard (94.6%), Paper (5%), Wood (0.4%)
Installation	Ref EZ9D34616 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 No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process. Recyclability potential: **50%** 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	Differential circuit breaker			
Installation elements	No special components needed			
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT			
Geographical representativeness	Brazil			
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.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 110-220V; BR	Electricity mix; AC; consumption mix, at consumer; 110-220V; BR	Electricity mix; AC; consumption mix, at consumer; 110-220V; BR

Compulsory indicators	**Easy9 RCBO - EZ9D34616**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.37E-03	3.37E-03	0*	0*	6.15E-07	0*
Contribution to the soil and water acidification	kg SO_2 eq	1.89E-02	1.25E-02	1.22E-04	5.45E-06	6.29E-03	5.73E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	3.30E-03	1.57E-03	2.80E-05	1.34E-06	1.68E-03	1.60E-05
Contribution to global warming	kg CO_2 eq	1.03E+01	1.70E+00	2.66E-02	1.40E-03	8.51E+00	3.02E-02
Contribution to ozone layer depletion	kg CFC11 eq	1.21E-06	1.35E-07	0*	0*	1.08E-06	1.30E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	2.45E-03	7.34E-04	8.68E-06	4.27E-07	1.70E-03	5.98E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	5.19E-02	4.02E-02	0*	0*	1.16E-02	2.61E-05
Total Primary Energy	MJ	2.76E+02	2.46E+01	3.77E-01	0*	2.50E+02	2.79E-01



Optional indicators		Easy9 RCBO - EZ9D34616					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	6.80E+01	1.51E+01	3.74E-01	1.69E-02	5.23E+01	2.24E-01
Contribution to air pollution	m³	9.81E+02	4.19E+02	1.13E+00	0*	5.59E+02	2.01E+00
Contribution to water pollution	m³	4.61E+02	9.87E+01	4.38E+00	1.97E-01	3.55E+02	2.42E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	8.59E-03	8.59E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.87E+02	9.79E-01	0*	0*	1.86E+02	0*
Total use of non-renewable primary energy resources	MJ	8.90E+01	2.36E+01	3.76E-01	1.70E-02	6.47E+01	2.78E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.86E+02	5.09E-01	0*	0*	1.86E+02	0*
Use of renewable primary energy resources used as raw material	MJ	4.70E-01	4.70E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	8.70E+01	2.17E+01	3.76E-01	1.70E-02	6.47E+01	2.78E-01
Use of non renewable primary energy resources used as raw material	MJ	1.99E+00	1.99E+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	1.94E+01	1.89E+01	0*	0*	2.13E-01	2.85E-01
Non hazardous waste disposed	kg	1.83E+00	1.05E+00	9.46E-04	2.55E-04	7.80E-01	8.54E-04
Radioactive waste disposed	kg	7.14E-04	2.67E-04	6.74E-07	0*	4.46E-04	1.35E-06
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.40E-01	2.08E-02	0*	2.38E-02	0*	9.53E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4.07E-03	0*	0*	0*	0*	4.07E-03
Exported Energy	MJ	1.44E-04	1.35E-05	0*	1.31E-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 manufacture phase has the greatest impact on Abiotic depletion, Acidification potential of soil and water, Net use of freshwater; the use phase has the greatest impact on Eutrophication, Global warming, Ozone layer depletion, Photochemical oxidation, Total Primary Energy (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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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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