Product Environmental Profile

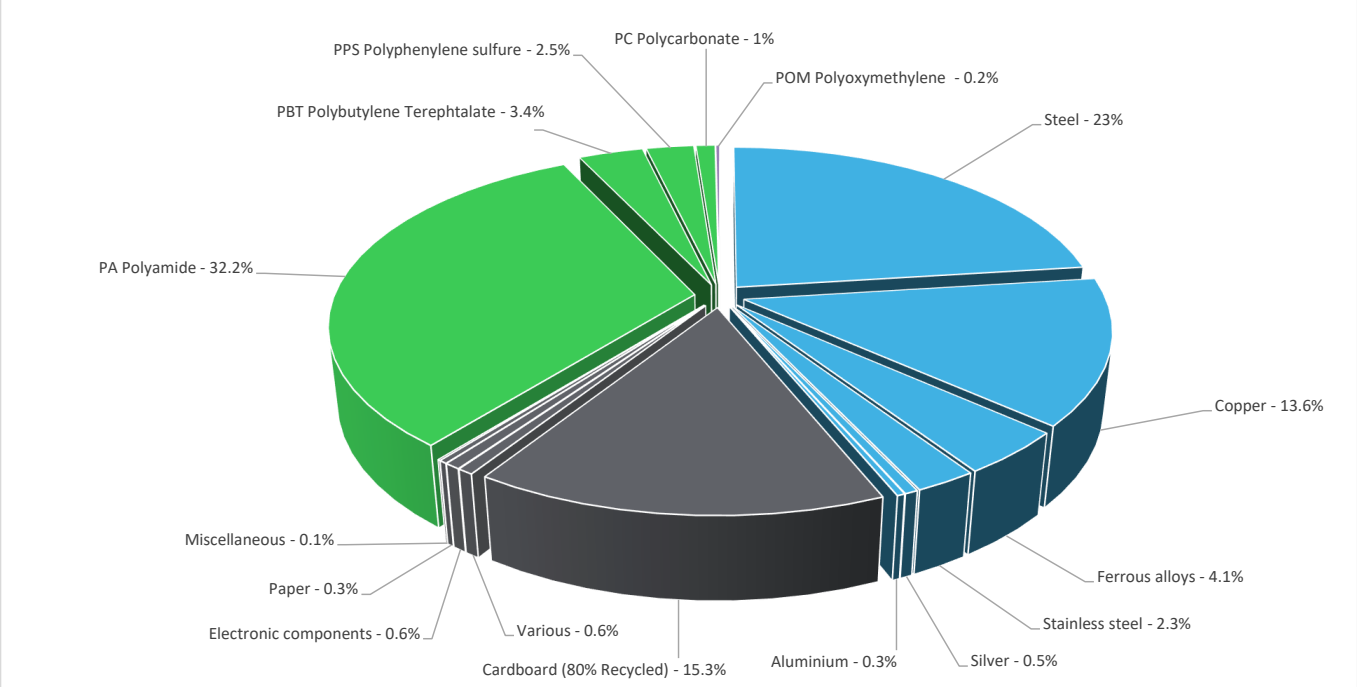
EASY9 RESIDUAL CURRENT CIRCUIT BREAKER

General information

Reference product	EASY9 RESIDUAL CURRENT CIRCUIT BREAKER - EZ9R36225
Description of the product	The main purpose of the Easy9 2P RCCB is human protection against electric shocks.
Functional unit	Protect the installation for 20 years against overloads and short-circuits and people and premises at risk of fire or explosion against insulation defects in the circuit with the assigned voltage [U] of 230V AC and rated current [In] of 25A with IP20 in accordance with EN 60529. The product follows the IEC 61008 standard. This protection is ensured in accordance with the following parameters: - Number of poles Np - 2 - Rated breaking capacity Icn - 500A - Sensitivity S - 30 mA - Type of differential protection Tp - AC

Constituent materials

Reference product mass	223.28 g including the product, its packaging and additional elements and accessories



	Plastics	39.3%
	Metals	43.8%
	Others	16.9%

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

End Of Life	Recyclability potential:	**51%**	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).

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 25A (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	Argentina			
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; Production mix; Low voltage; IN	Electricity mix AC; consumption mix, at power plant; AG	Electricity mix AC; consumption mix, at power plant; AG	Electricity mix AC; consumption mix, at power plant; AG

Mandatory Indicators		EASY9 RESIDUAL CURRENT CIRCUIT BREAKER - EZ9R36225						
Impact indicators	Unit	Total	Manufacturing [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to climate change	kg CO2 eq	3.13E+01	1.04E+01	1.17E-01	6.53E-02	2.03E+01	5.05E-01	-8.66E-01
Contribution to climate change-fossil	kg CO2 eq	3.13E+01	1.04E+01	1.17E-01	6.24E-02	2.03E+01	4.99E-01	-8.54E-01
Contribution to climate change-biogenic	kg CO2 eq	3.13E-02	2.19E-02	0*	2.90E-03	0*	6.49E-03	-1.12E-02
Contribution to climate change-land use and land use change	kg CO2 eq	1.12E-07	5.99E-09	0*	0*	0*	1.06E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.01E-05	8.42E-06	1.43E-08	4.32E-09	1.62E-06	5.05E-09	-1.53E-07
Contribution to acidification	mol H+ eq	1.09E-01	4.84E-02	4.13E-03	2.59E-04	5.50E-02	1.64E-03	-1.27E-02
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	2.58E-04	3.03E-05	3.57E-08	4.72E-07	8.96E-07	2.26E-04	-1.32E-06
Contribution to eutrophication marine	kg N eq	2.51E-02	1.56E-02	9.59E-04	6.86E-05	8.12E-03	3.12E-04	-5.47E-04
Contribution to eutrophication, terrestrial	mol N eq	2.71E-01	1.68E-01	1.05E-02	5.18E-04	8.86E-02	3.20E-03	-6.41E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.02E-01	6.06E-02	2.73E-03	1.38E-04	3.78E-02	9.16E-04	-2.68E-03
Contribution to resource use, minerals and metals	kg Sb eq	1.28E-03	1.27E-03	0*	0*	0*	6.37E-06	-2.91E-04
Contribution to resource use, fossils	MJ	2.51E+02	1.33E+02	1.44E+00	6.80E-01	1.01E+02	1.51E+01	-1.85E+01
Contribution to water use	m3 eq	2.41E+00	6.83E-01	1.14E-03	2.79E-02	6.26E-01	1.07E+00	-6.98E-01

Additional indicators for the French regulation are available as well

Inventory flows Indicators		EASY9 RESIDUAL CURRENT CIRCUIT BREAKER - EZ9R36225						
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.09E-01	5.61E-01	1.57E-03	4.88E-02	4.00E-02	1.57E-01	-3.87E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.52E-01	1.52E-01	0*	0*	0*	0*	7.28E-02
Contribution to total use of renewable primary energy resources	MJ	9.60E-01	7.13E-01	1.57E-03	4.88E-02	4.00E-02	1.57E-01	-3.14E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.49E+02	1.31E+02	1.44E+00	6.80E-01	1.01E+02	1.51E+01	-1.85E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.13E+00	2.13E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2.51E+02	1.33E+02	1.44E+00	6.80E-01	1.01E+02	1.51E+01	-1.85E+01

Contribution to use of secondary material	kg	3.11E-02	3.11E-02	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	5.85E-02	1.60E-02	2.64E-05	6.49E-04	1.46E-02	2.73E-02	-1.63E-02
Contribution to hazardous waste disposed	kg	1.28E+01	1.18E+01	0*	0*	7.56E-01	1.99E-01	-2.38E+01
Contribution to non hazardous waste disposed	kg	1.87E+00	1.43E+00	2.98E-03	2.12E-01	1.50E-01	8.38E-02	-4.98E-01
Contribution to radioactive waste disposed	kg	3.17E-03	2.30E-03	5.25E-06	2.85E-05	8.32E-04	4.00E-06	-2.77E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.88E-01	5.32E-02	0*	3.59E-02	0*	9.90E-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 5.9.4, database version 2022-01 in compliance with ISO14044.

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 :	ENVPEP2304010_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	09/2023	*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 »

Schneider Electric Industries SAS

Country Customer Care Center
http://www.schneider-electric.com/contact

35, rue Joseph Monier

CS 30323

F- 92500 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 928 298 512 €

www.se.com

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