Product Environmental Profile

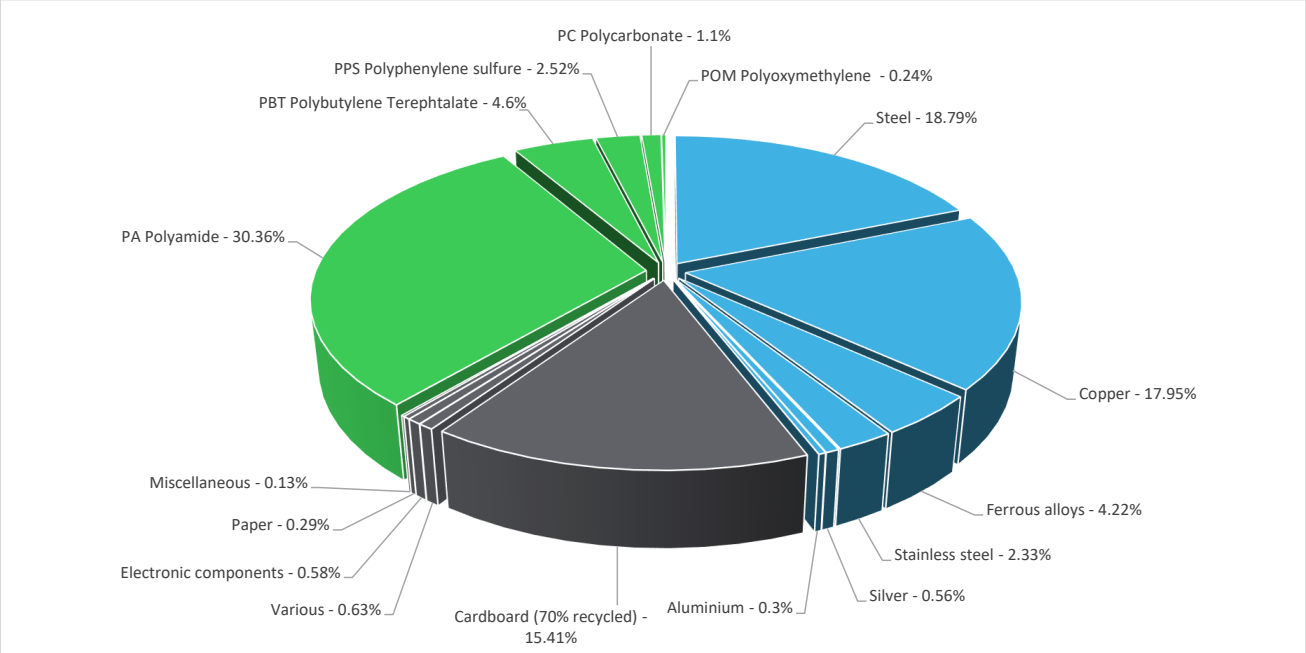
RESIDUAL CURRENT CIRCUIT BREAKER

General information

Reference product	RESIDUAL CURRENT CIRCUIT BREAKER - EZ9R39225
Description of the product	The main purpose of this product is to ensure protection of peoples against electric shock.
Functional unit	Protect people and premises at risk of fire or explosion against insulation defects in a circuit in the Household/Commercial application area, according to the appropriate use scenario, and during the 20-year reference service life of the product and this protection is ensured in accordance with the following parameters: - Rated voltage [Ue] = 240V AC - Rated current [In] = 25A - Np poles = 2 Poles - Sensitivity S = 30mA - Differential protection type Tp = AC type - Degree of protection against ingress of solid foreign objects and water with harmful effects in accordance with the standard IEC 60529 = IP20.

Constituent materials

Reference product mass	216.5 g	including the product, its packaging and additional elements and accessories



Plastics	38.8%	
Metals	44.2%	
Others	17%	

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	Blocks and differential switches
Installation elements	The product does not require special installation procedure and requires little to no energy to install.
Use scenario	Load rate: 20% 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	KSA and Turkey

Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; IN	Electricity mix; AC; consumption mix, at consumer; 230V; TR	Electricity mix; AC; consumption mix, at consumer; 230V; TR	Electricity mix; AC; consumption mix, at consumer; 230V; TR

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.schneider-electric.com/contact

Mandatory Indicators		RESIDUAL CURRENT CIRCUIT BREAKER - EZ9R39225						
Impact indicators	Unit	Total	Manufacturing [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Loads and Benefits [D]
Contribution to climate change	kg CO2 eq	7.93E+00	1.39E+00	2.83E-02	6.45E-02	5.97E+00	4.74E-01	-3.62E-01
Contribution to climate change-fossil	kg CO2 eq	7.89E+00	1.37E+00	2.83E-02	6.16E-02	5.97E+00	4.66E-01	-3.52E-01
Contribution to climate change-biogenic	kg CO2 eq	3.41E-02	2.29E-02	0*	2.87E-03	0*	8.37E-03	-9.38E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.38E-07	9.08E-10	0*	0*	0*	1.37E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	5.75E-07	3.15E-07	0*	4.27E-09	2.50E-07	5.97E-09	-7.16E-08
Contribution to acidification	mol H+ eq	5.47E-02	1.90E-02	1.82E-04	2.56E-04	3.34E-02	1.78E-03	-8.22E-03
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	3.19E-04	2.56E-05	0*	4.66E-07	1.18E-07	2.93E-04	-8.36E-07
Contribution to eutrophication marine	kg N eq	6.52E-03	2.25E-03	8.55E-05	6.78E-05	3.78E-03	3.29E-04	-2.68E-04
Contribution to eutrophication, terrestrial	mol N eq	7.08E-02	2.45E-02	9.38E-04	5.11E-04	4.13E-02	3.45E-03	-3.02E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.30E-02	7.54E-03	2.37E-04	1.37E-04	1.41E-02	9.49E-04	-1.38E-03
Contribution to resource use, minerals and metals	kg Sb eq	1.42E-03	1.41E-03	0*	0*	0*	8.25E-06	-1.18E-04
Contribution to resource use, fossils	MJ	9.35E+01	2.15E+01	3.94E-01	6.71E-01	5.78E+01	1.31E+01	-6.69E+00
Contribution to water use	m3 eq	1.46E+00	1.36E-01	0*	2.75E-02	1.93E-01	1.11E+00	-4.30E-01

Inventory flows Indicators		RESIDUAL CURRENT CIRCUIT BREAKER - EZ9R39225						
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Loads and Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.06E+01	5.34E-01	0*	4.81E-02	9.77E+00	2.02E-01	-9.06E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	2.19E-01	2.19E-01	0*	0*	0*	0*	-2.00E-01
Contribution to total use of renewable primary energy resources	MJ	1.08E+01	7.53E-01	0*	4.81E-02	9.77E+00	2.02E-01	-2.90E-01

Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.14E+01	1.94E+01	3.94E-01	6.71E-01	5.78E+01	1.31E+01	-6.69E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.05E+00	2.05E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	9.35E+01	2.15E+01	3.94E-01	6.71E-01	5.78E+01	1.31E+01	-6.69E+00
Contribution to use of secondary material	kg	2.69E-02	2.69E-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	m^3	3.65E-02	3.21E-03	0*	6.41E-04	4.50E-03	2.81E-02	-1.00E-02
Contribution to hazardous waste disposed	kg	1.32E+01	1.29E+01	0*	0*	1.19E-01	1.94E-01	-9.92E+00
Contribution to non hazardous waste disposed	kg	2.37E+00	1.46E+00	9.92E-04	2.10E-01	6.29E-01	7.78E-02	-4.76E-01
Contribution to radioactive waste disposed	kg	5.51E-04	4.45E-04	7.07E-07	2.82E-05	7.41E-05	3.78E-06	-1.09E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.85E-01	5.20E-02	0*	3.54E-02	0*	9.76E-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.

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 :	SCHN-01044-V01.01-EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
Verifier accreditation N°	VH39	*Supplemented by*	PSR-0005-ed3-EN-2023 06 06
Date of issue	01/2024	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2006

Internal External X

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 or NF E38-500 :2022

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14025 : 2006 « Environmental labels and declarations. Type III environmental declarations »

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