Product Environmental Profile

MINIATURE CIRCUIT BREAKER





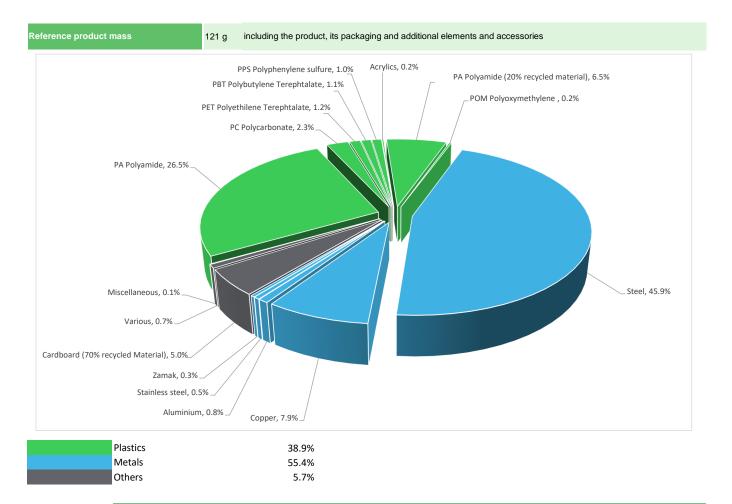




General information

Reference product	MINIATURE CIRCUIT BREAKER - EZ9F57116
Description of the product	The MCB provides protection against overcurrent and overload in low voltage distribution systems. It is mainly used for household or similar applications.
Functional unit	Protect the installation from overloads and short circuits in a circuit with rated voltage [Ue] 240V, rated current [In] 16A, with [Np] single pole, a rated breaking capacity [Icn] 6000A in the Household/Commercial application area, according to the appropriate use scenario, and during the reference service life of the product of 20 years in accordance to an stadarad IEC 60898.

Constituent materials



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

nd Of Life Recyclability potential:	E79/	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).
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Reference service life time	20 years							
Product category	Circuit-breakers							
Installation elements	The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).							
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	Turkey and KSA							
	[A1 - A3]	[A5]	[B6]	[C1 - C4]				
Energy model used	Electricity Mix; Production mix; Low voltage; IN	Electricity Mix; Production mix; Low voltage; TR	Electricity Mix; Production mix; Low voltage; TR	Electricity Mix; Production mix; Low voltage; 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.schneiderelectric.com/contact

Mandatory Indicators		MINIATURE CIF	CUIT BREAKER	- EZ9F57116				
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
impact indicators	Onic	Total	[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	2.14E+01	6.76E-01	3.49E-02	1.09E-02	2.04E+01	3.12E-01	-1.08E+00
Contribution to climate change-fossil	kg CO2 eq	2.14E+01	6.71E-01	3.49E-02	1.04E-02	2.04E+01	3.10E-01	-1.07E+00
Contribution to climate change-biogenic	kg CO2 eq	2.29E-02	5.55E-03	0*	4.84E-04	1.49E-02	1.93E-03	-5.90E-03
Contribution to climate change-land use and land use change	ge kg CO2 eq	3.21E-08	0*	0*	0*	0*	3.21E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.06E-07	8.11E-08	3.08E-08	7.20E-10	9.12E-08	1.95E-09	-1.67E-07
Contribution to acidification	mol H+ eq	1.28E-01	7.08E-03	1.52E-04	4.32E-05	1.20E-01	8.28E-04	-7.97E-03
Contribution to eutrophication, freshwater	kg (PO4)³⁻ eq	7.77E-05	9.07E-06	0*	7.86E-08	8.97E-08	6.84E-05	6.67E-08
Contribution to eutrophication marine	kg N eq	1.50E-02	1.02E-03	6.97E-05	1.14E-05	1.37E-02	1.45E-04	-6.15E-04
Contribution to eutrophication, terrestrial	mol N eq	1.71E-01	1.12E-02	7.55E-04	8.64E-05	1.57E-01	1.69E-03	-7.23E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.99E-02	3.30E-03	2.47E-04	2.31E-05	4.58E-02	5.28E-04	-2.63E-03
Contribution to resource use, minerals and metals	kg Sb eq	1.39E-04	1.36E-04	0*	0*	5.67E-07	1.93E-06	-3.35E-04
Contribution to resource use, fossils	MJ	3.39E+02	1.20E+01	4.24E-01	1.13E-01	3.14E+02	1.17E+01	-2.41E+01
Contribution to water use	m3 eq	8.80E-01	0*	1.77E-03	4.65E-03	7.69E-01	1.21E-01	-5.65E-01

Inventory flows Indicators			MINIATURE CIRCUIT BREAKER - EZ9F57116					
lavontani flavon	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
Inventory flows			[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	6.07E+01	2.08E-01	0*	8.13E-03	6.05E+01	4.70E-02	-3.32E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	4.68E-02	4.68E-02	0*	0*	0*	0*	9.79E-02
Contribution to total use of renewable primary energy resources	MJ	6.08E+01	2.55E-01	0*	8.13E-03	6.05E+01	4.70E-02	-2.34E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.38E+02	1.10E+01	4.24E-01	1.13E-01	3.14E+02	1.17E+01	-2.43E+01

Contribution to use of non renewable primary energy resources used as raw material	MJ	1.01E+00	1.01E+00	0*	0*	0*	0*	1.81E-01
Contribution to total use of non-renewable primary energy resources	MJ	3.39E+02	1.20E+01	4.24E-01	1.13E-01	3.14E+02	1.17E+01	-2.41E+01
Contribution to use of secondary material	kg	1.18E-02	1.18E-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	2.05E-02	0*	4.12E-05	1.08E-04	1.79E-02	2.82E-03	-1.32E-02
Contribution to hazardous waste disposed	kg	7.87E+00	7.28E+00	0*	0*	4.73E-01	1.17E-01	-2.66E+01
Contribution to non hazardous waste disposed	kg	3.80E+00	4.72E-01	0*	3.54E-02	3.24E+00	4.63E-02	-8.21E-01
Contribution to radioactive waste disposed	kg	6.88E-04	2.37E-04	6.93E-06	4.75E-06	4.37E-04	2.26E-06	-4.72E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	7.05E-02	0*	0*	5.98E-03	0*	6.46E-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.

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Date of issue	101/2024	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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