Product Environmental Profile

EASY9 Miniature Circuit Breaker

Easy 9

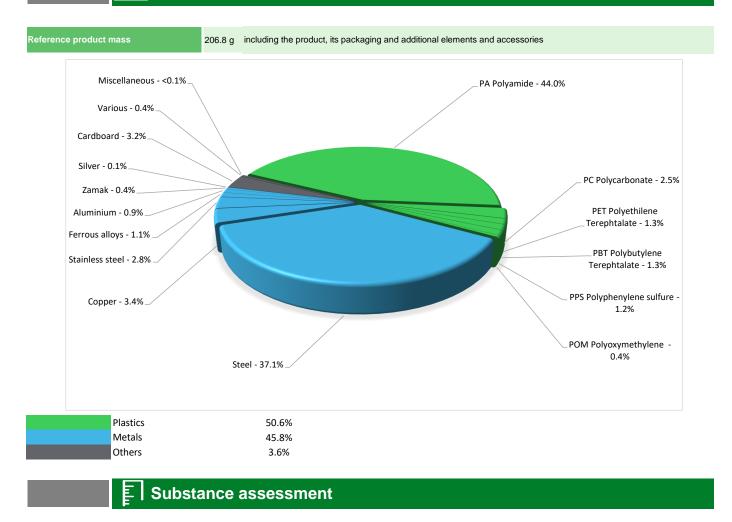




General information

Reference product	EASY9 Miniature Circuit Breaker - EZ9F34216					
Description of the product	The main function of this product is to provide overload protection and short circuit protection in low voltage power					
Description of the range	This range consists of Easy 9 MCB Greco of 2A to 63A, 1P to 3P, B and C curve. The representative product used for the analysis is EASY9 MCB C 16A 2P 4500A (commercial reference: EZ9F34216). The mass of the product range is from 115g and 470 g including packaging.					
	The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.					
Functional unit	Protect during 20 years the installation against overloads and short-circuits in circuit with assigned voltage 400V and rated current 16A. This protection is ensured in accordance with the following parameters: - Number of poles: 2P - Rated breaking capacity: 4500A - Tripping curve : C - Followed standards: IEC/EN 60898-1 - Degrees of protection :IP20					





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:

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).

D Environmental impacts

46%

Reference service life time	20 years						
Product category	Circuit-breakers						
Installation elements	Ref EZ9F34216 does not require any installation operations						
Use scenario	Load rate: 50% of In Use time rate: 30% of 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	South America						
	[A1 - A3]	[A5]	[B6]	[C1 - C4]			
Energy model used	Electricity Mix; Production mix; Low voltage; TH	Electricity Mix; Production mix; Low voltage; BR	Electricity Mix; Production mix; Low voltage; BR	Electricity Mix; Production mix; Low voltage; BR			

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

Mandatory Indicators				EASY9 Miniatu	ire Circuit Break	er - EZ9F34216		
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
	onit	Total	[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	1.21E+01	1.54E+00	5.96E-02	1.23E-02	9.90E+00	5.71E-01	-3.80E-01
Contribution to climate change-fossil	kg CO2 eq	1.21E+01	1.53E+00	5.96E-02	1.17E-02	9.89E+00	5.69E-01	-3.77E-01
Contribution to climate change-biogenic	kg CO2 eq	1.96E-02	2.07E-03	0*	5.46E-04	1.56E-02	1.42E-03	-2.97E-03
Contribution to climate change-land use and land use change	e kg CO2 eq	2.37E-08	0*	0*	0*	0*	2.37E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.14E-07	1.23E-07	5.26E-08	8.13E-10	3.58E-08	2.47E-09	-6.35E-08
Contribution to acidification	mol H+ eq	9.11E-02	1.37E-02	2.59E-04	4.88E-05	7.60E-02	1.10E-03	-3.28E-03
Contribution to eutrophication, freshwater	kg (PO4)³⁻ eq	7.96E-05	2.16E-05	0*	8.88E-08	7.35E-06	5.06E-05	-7.28E-07
Contribution to eutrophication marine	kg N eq	9.90E-03	2.37E-03	1.19E-04	1.29E-05	7.20E-03	2.02E-04	-2.27E-04
Contribution to eutrophication, terrestrial	mol N eq	2.22E-01	2.58E-02	1.29E-03	9.75E-05	1.93E-01	2.34E-03	-2.62E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.93E-02	7.39E-03	4.23E-04	2.60E-05	2.08E-02	7.49E-04	-9.73E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.76E-04	1.73E-04	0*	0*	1.31E-06	1.43E-06	-1.07E-04
Contribution to resource use, fossils	MJ	2.11E+02	3.09E+01	7.24E-01	1.28E-01	1.62E+02	1.79E+01	-7.91E+00
Contribution to water use	m3 eq	8.65E-02	0*	3.02E-03	5.25E-03	3.22E-01	1.56E-01	-2.01E-01

. Public

Additional indicators for the French regulation are available as well

Inventory flows Indicators				EASY9 Miniatu	ıre Circuit Breake	er - EZ9F34216		
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
			[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	2.51E+02	3.08E-01	0*	0*	2.51E+02	3.59E-02	-7.93E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	4.74E-02	4.74E-02	0*	0*	0*	0*	-3.76E-02
Contribution to total use of renewable primary energy resources	MJ	2.51E+02	3.56E-01	0*	0*	2.51E+02	3.59E-02	-1.17E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.09E+02	2.84E+01	7.24E-01	1.28E-01	1.62E+02	1.79E+01	-7.91E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.52E+00	2.52E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2.11E+02	3.09E+01	7.24E-01	1.28E-01	1.62E+02	1.79E+01	-7.91E+00
Contribution to use of secondary material	kg	5.14E-03	5.14E-03	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	2.02E-03	0*	7.04E-05	1.22E-04	7.50E-03	3.62E-03	-4.67E-03
Contribution to hazardous waste disposed	kg	5.72E+00	5.35E+00	0*	0*	1.67E-01	2.05E-01	-8.53E+00
Contribution to non hazardous waste disposed	kg	2.24E+00	5.09E-01	0*	4.00E-02	1.58E+00	1.06E-01	-3.50E-01
Contribution to radioactive waste disposed	kg	4.49E-04	1.38E-04	1.19E-05	5.37E-06	2.89E-04	4.75E-06	-1.51E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	9.88E-02	0*	0*	6.75E-03	0*	9.21E-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 v5.9.4, 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

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

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 num	er :	ENVPEP2309034_V1	/PEP2309034_V1 Drafting rules PEP-PCR-ed4-2021 09 06				
Verifier accreditat	on N°		Supplemented by	PSR-0005-ed2-2016 03 29			
Date of issue		02/2024	Information and reference documents www.pep-ecopassport.org				
			Validity period	5 years			
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016							
Internal	ernal 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 896 313 776 €

www.se.com

ENVPEP2309034_V1

Published by Schneider Electric ©2023 - Schneider Electric – All rights reserved

02/2024