Product Environmental Profile

Acti9 C65L DC 2P C 6A MCB

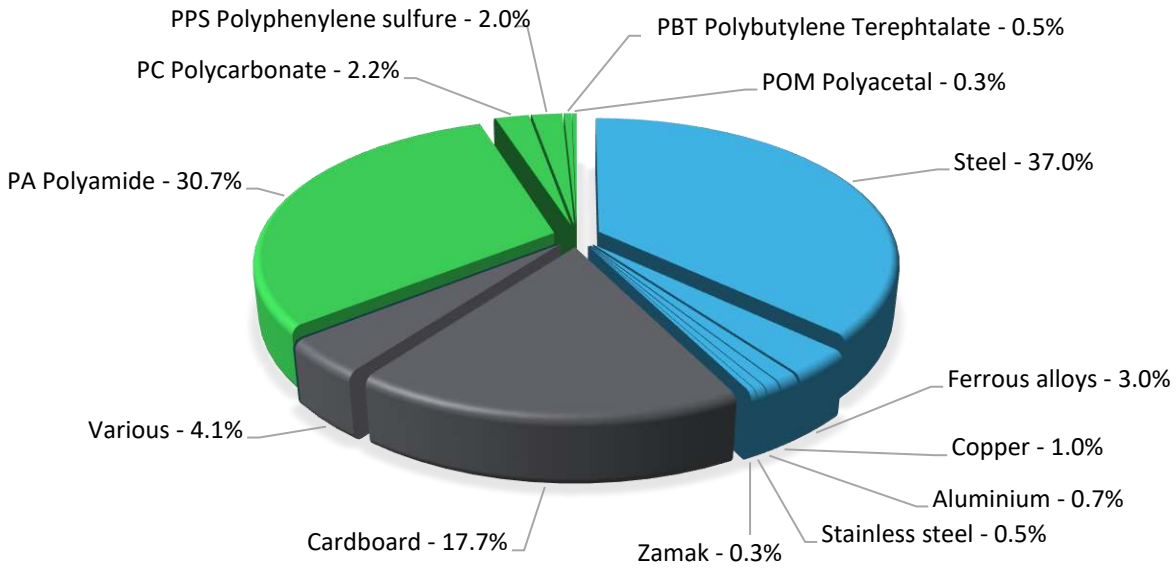
Acti9

General information

Representative product	Acti9 C65L DC 2P C 6A MCB - A9N22124
Description of the product	The main purpose of the Acti9 C65L DC 2P C 6A MCB is to protect against overloads and short circuit in DC installations.
Description of the range	This range consists of MCB Acti9 of 0.5A to 63A, 1P to 2P, and C curve. The representative product used for the analysis is C65L DC 2P C 6A (commercial reference: A9N22124). The mass range of the product is from 102 g and 572 g not including packaging. The environmental impacts of this referenced 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 500V DC and rated current 6A. This protection is ensured in accordance with the following parameters: - Number of poles 2p - Rated breaking capacity 6KA - Tripping curve C

Constituent materials

Reference product mass	270.85 g	including the product, its packaging and additional elements and accessories



Plastics	35.7%
Metals	42.5%
Others	21.8%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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

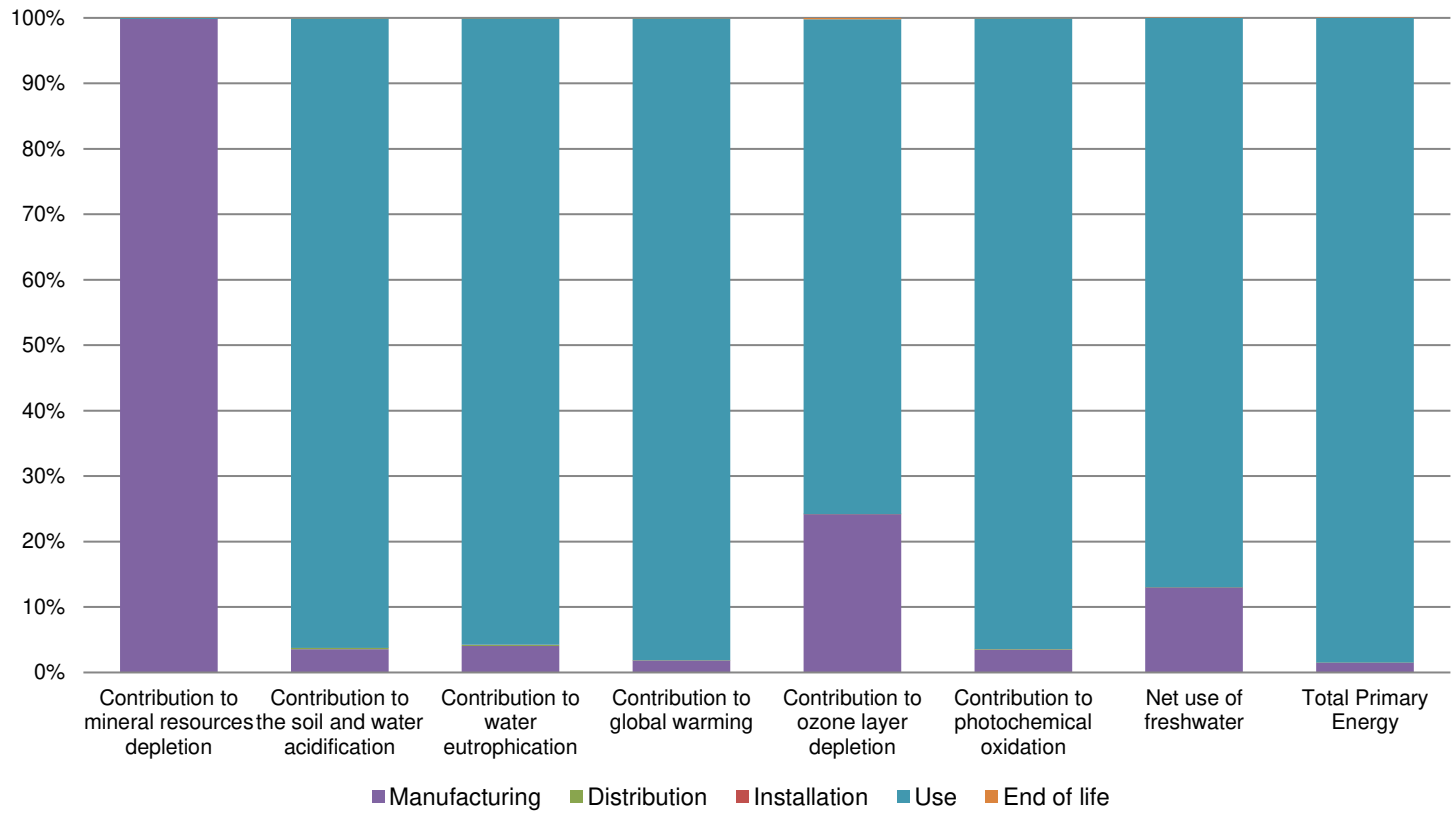
Additional environmental information

The Acti9 C65L DC 2P C 6A MCB 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 47.9 g, consisting of Cardboad (99.8%), paper (0.2%)		
Installation	Ref A9N22124 doesn't 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:	**48%**	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	Circuit-breakers			
Installation elements	No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.			
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT			
Geographical representativeness	China			
Technological representativeness	The main purpose of the Acti9 C65L DC 2P C 6A MCB is to protect against overloads and short circuit in DC installations.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN

Compulsory indicators	Acti9 C65L DC 2P C 6A MCB - A9N22124						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.04E-04	2.03E-04	0*	0*	3.17E-07	0*
Contribution to the soil and water acidification	kg SO_2 eq	8.13E-02	2.88E-03	1.60E-04	1.08E-05	7.82E-02	6.70E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	2.16E-02	8.71E-04	3.68E-05	2.63E-06	2.07E-02	1.87E-05
Contribution to global warming	kg CO_2 eq	7.35E+01	1.31E+00	3.49E-02	0*	7.22E+01	3.54E-02
Contribution to ozone layer depletion	kg CFC11 eq	7.60E-07	1.84E-07	0*	0*	5.74E-07	1.53E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	9.59E-03	3.30E-04	1.14E-05	0*	9.24E-03	6.98E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	9.26E-02	1.20E-02	0*	0*	8.06E-02	3.05E-05
Total Primary Energy	MJ	1.20E+03	1.75E+01	4.94E-01	0*	1.18E+03	3.25E-01



Optional indicators		Acti9 C65L DC 2P C 6A MCB - A9N22124					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.10E+03	7.94E+00	4.91E-01	0*	1.09E+03	2.61E-01
Contribution to air pollution	m³	7.76E+03	2.74E+02	1.49E+00	0*	7.49E+03	2.35E+00
Contribution to water pollution	m³	4.05E+03	4.47E+02	5.75E+00	0*	3.59E+03	2.84E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.37E-02	4.37E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	6.27E+01	2.09E+00	0*	0*	6.06E+01	0*
Total use of non-renewable primary energy resources	MJ	1.14E+03	1.54E+01	4.93E-01	0*	1.12E+03	3.25E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	6.25E+01	1.90E+00	0*	0*	6.06E+01	0*
Use of renewable primary energy resources used as raw material	MJ	1.92E-01	1.92E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.13E+03	1.30E+01	4.93E-01	0*	1.12E+03	3.25E-01
Use of non renewable primary energy resources used as raw material	MJ	2.47E+00	2.47E+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	1.39E+01	1.12E+01	0*	0*	2.33E+00	3.39E-01
Non hazardous waste disposed	kg	1.39E+01	7.98E-01	0*	0*	1.31E+01	0*
Radioactive waste disposed	kg	9.43E-04	5.09E-04	8.84E-07	0*	4.31E-04	1.58E-06
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.79E-01	2.57E-02	0*	4.77E-02	0*	1.05E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4.80E-03	0*	0*	0*	0*	4.80E-03
Exported Energy	MJ	1.51E-04	1.42E-05	0*	1.37E-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 v5.9.2, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

For our products, the first proposition for significant parameter is energy consumption values.
Depending on the impact analysis, the environmental indicators (without RMD) of other products in this family may be proportional extrapolated by energy consumption values. For RMD, impact may be proportional extrapolated by mass of the product.

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	ENVPEP120608EN_V2	*Drafting rules*	PCR-ed3-EN-2015 04 02
Date of issue	07/2022	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
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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