Product Environmental Profile

Acti9 C65L DC 2P C 6A MCB

Acti9 C65L DC

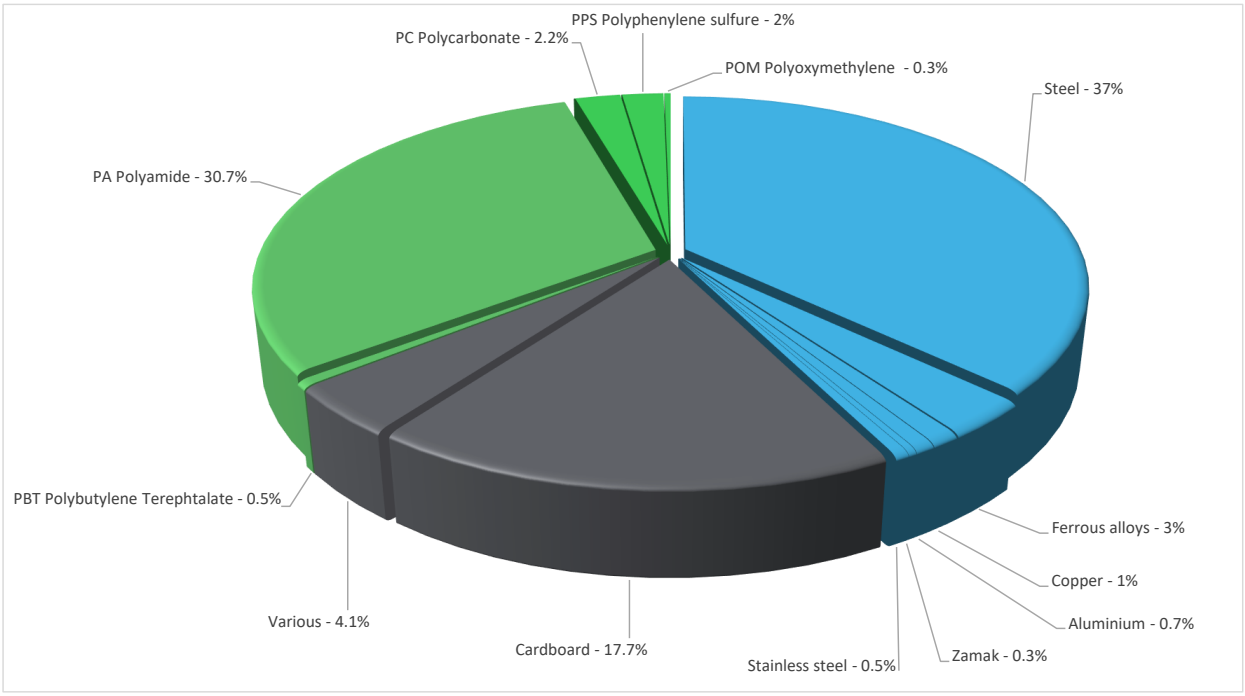


General information

Reference 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 Acti9 C65L DC 1-3P B or C 1-63A MCB.The representative product used for the analysis is Acti9 C65L DC 2P C 6A MCB（commercial reference:A9N18216）.The mass range of the product is from 80g and 480g including packaging.
Functional unit	Protect the installation from overloads and short circuits in a circuit with rated voltage Ue, rated current In, with Np poles, a rated breaking capacity Icu, and, if applicable, the specific specifications, in the Industrial application area, according to the appropriate use scenario, and during the reference service life of the product of 20 years.
Specifications are:	Ue =500 (V) In =6 (A) Np =2 Icu:6KA Cd = C IEC 60947-2.

Constituent materials

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



Plastics	35.7%
Metals	42.5%
Others	21.8%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
https://www.se.com

Additional environmental information

End Of Life	Recyclability potential:	**50%**	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR 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 - Industrial
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption
Installation elements	The product does not require any installation operations
Use scenario	Load rate = 50 % In Use rate = 30% RLT
Time representativeness	The collected data are representative of the year 2025
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are similar and representative of the actual type of technologies used to make the product.

Geographical representativeness	**Final assembly site**	**Use phase**		**End-of-life**
	China	China		China
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity mix; Production mix; low voltage; 2022; China, CN	No energy used	Electricity mix; Production mix; low voltage; 2022; China, CN	Global, European and French datasets are used.

Detailed results of 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.se.com/contact

Mandatory Indicators		**Acti9 C65L DC 2P C 6A MCB - A9N22124**						
Impact indicators	**Unit**	**Total (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
Contribution to climate change	kg CO2 eq	6.04E+01	1.37E+00	8.25E-02	9.18E-02	5.86E+01	2.65E-01	-4.46E-01
Contribution to climate change-fossil	kg CO2 eq	6.04E+01	1.47E+00	8.25E-02	1.67E-02	5.86E+01	2.56E-01	-4.43E-01
Contribution to climate change-biogenic	kg CO2 eq	4.34E-02	-9.20E-02	0*	7.51E-02	5.13E-02	9.01E-03	-2.20E-03
Contribution to climate change-land use and land use change	kg CO2 eq	7.99E-06	7.57E-06	1.54E-07	3.17E-09	0.00E+00	2.65E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.97E-07	1.47E-07	1.19E-09	6.08E-10	3.39E-07	9.77E-09	-7.19E-08
Contribution to acidification	mol H+ eq	4.51E-01	7.61E-03	1.49E-04	9.67E-05	4.42E-01	1.23E-03	-3.03E-03
Contribution to eutrophication, freshwater	kg P eq	4.03E-05	2.40E-05	3.19E-07	2.64E-08	1.49E-05	1.01E-06	-7.86E-07
Contribution to eutrophication, marine	kg N eq	4.85E-02	1.04E-03	2.99E-05	2.31E-05	4.72E-02	1.82E-04	-2.59E-04
Contribution to eutrophication, terrestrial	mol N eq	5.56E-01	1.12E-02	3.28E-04	3.08E-04	5.42E-01	2.23E-03	-3.00E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.62E-01	3.53E-03	1.03E-04	6.52E-05	1.58E-01	5.96E-04	-1.07E-03
Contribution to resource use, minerals and metals	kg Sb eq	2.44E-04	2.38E-04	6.72E-08	0*	5.94E-06	8.26E-08	-1.32E-04
Contribution to resource use, fossils	MJ	9.98E+02	2.84E+01	1.53E+00	3.27E-01	9.63E+02	5.27E+00	-9.85E+00
Contribution to water use	m3 eq	3.80E+00	3.59E-01	3.45E-03	1.01E-03	3.40E+00	3.25E-02	-2.05E-01

Inventory flows Indicators		Acti9 C65L DC 2P C 6A MCB - A9N22124						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to renewable primary energy used as energy	MJ	1.02E+02	5.34E-01	0*	2.61E-02	1.02E+02	2.00E-01	-1.01E-01
Contribution to renewable primary energy used as raw material	MJ	5.18E-01	5.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to total renewable primary energy	MJ	1.03E+02	1.05E+00	0*	2.61E-02	1.02E+02	2.00E-01	-1.01E-01
Contribution to non renewable primary energy used as energy	MJ	9.95E+02	2.58E+01	1.53E+00	3.27E-01	9.63E+02	5.27E+00	-9.85E+00
Contribution to non renewable primary energy used as raw material	MJ	2.59E+00	2.59E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to total non renewable primary energy	MJ	9.98E+02	2.84E+01	1.53E+00	3.27E-01	9.63E+02	5.27E+00	-9.85E+00
Contribution to use of secondary material	kg	3.78E-02	3.78E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to net use of fresh water	m³	8.86E-02	8.40E-03	8.03E-05	2.31E-05	7.92E-02	9.40E-04	-4.78E-03
Contribution to hazardous waste disposed	kg	1.37E+01	1.18E+01	0*	1.78E-02	1.82E+00	4.61E-02	-1.03E+01
Contribution to non hazardous waste disposed	kg	1.19E+01	7.73E-01	9.43E-03	2.31E-03	1.09E+01	1.54E-01	-3.70E-01
Contribution to radioactive waste disposed	kg	7.51E-04	2.82E-04	7.47E-06	1.03E-06	4.42E-04	1.83E-05	-1.82E-04
Contribution to components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to materials for recycling	kg	1.22E-01	1.02E-02	0.00E+00	0.00E+00	0.00E+00	1.12E-01	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to exported energy	MJ	1.21E-03	1.06E-04	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00

* represents less than 0.01% of the total life cycle of the reference flow

Contribution to biogenic carbon content of the product	kg of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	1.34E-02

** The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)*

Mandatory Indicators		Acti9 C65L DC 2P C 6A MCB - A9N22124							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	5.86E+01	0	0.00E+00	0	0	0	5.86E+01	0
Contribution to climate change-fossil	kg CO2 eq	5.86E+01	0	0.00E+00	0	0	0	5.86E+01	0
Contribution to climate change-biogenic	kg CO2 eq	5.13E-02	0	0.00E+00	0	0	0	5.13E-02	0
Contribution to climate change-land use and land use change	kg CO2 eq	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to ozone depletion	kg CFC-11 eq	3.39E-07	0	0.00E+00	0	0	0	3.39E-07	0
Contribution to acidification	mol H+ eq	4.42E-01	0	0.00E+00	0	0	0	4.42E-01	0
Contribution to eutrophication, freshwater	kg P eq	1.49E-05	0	0.00E+00	0	0	0	1.49E-05	0
Contribution to eutrophication marine	kg N eq	4.72E-02	0	0.00E+00	0	0	0	4.72E-02	0
Contribution to eutrophication, terrestrial	mol N eq	5.42E-01	0	0.00E+00	0	0	0	5.42E-01	0
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.58E-01	0	0.00E+00	0	0	0	1.58E-01	0
Contribution to resource use, minerals and metals	kg Sb eq	5.94E-06	0	0.00E+00	0	0	0	5.94E-06	0
Contribution to resource use, fossils	MJ	9.63E+02	0	0.00E+00	0	0	0	9.63E+02	0
Contribution to water use	m3 eq	3.40E+00	0	0.00E+00	0	0	0	3.40E+00	0

Inventory flows Indicators		Acti9 C65L DC 2P C 6A MCB - A9N22124							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.02E+02	0	0.00E+00	0	0	0	1.02E+02	0
Contribution to use of renewable primary energy resources used as raw material	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to total use of renewable primary energy resources	MJ	1.02E+02	0	0.00E+00	0	0	0	1.02E+02	0
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.63E+02	0	0.00E+00	0	0	0	9.63E+02	0
Contribution to use of non renewable primary energy resources used as raw material	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to total use of non-renewable primary energy resources	MJ	9.63E+02	0	0.00E+00	0	0	0	9.63E+02	0
Contribution to use of secondary material	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to net use of freshwater	m^3	7.92E-02	0	0.00E+00	0	0	0	7.92E-02	0
Contribution to hazardous waste disposed	kg	1.82E+00	0	0.00E+00	0	0	0	1.82E+00	0
Contribution to non hazardous waste disposed	kg	1.09E+01	0	0.00E+00	0	0	0	1.09E+01	0
Contribution to radioactive waste disposed	kg	4.42E-04	0	0.00E+00	0	0	0	4.42E-04	0
Contribution to components for reuse	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to materials for recycling	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to materials for energy recovery	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to exported energy	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0

** represents less than 0.01% of the total life cycle of the reference flow*

Life cycle assessment performed with EIME version v6.3.4, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

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.

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		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	10/2026	*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 X External

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)

PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022

The components of the present PEP may not be compared with components from any other program.

Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"

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