Product Environmental Profile

Acti9-Residual current circuit breaker-iID

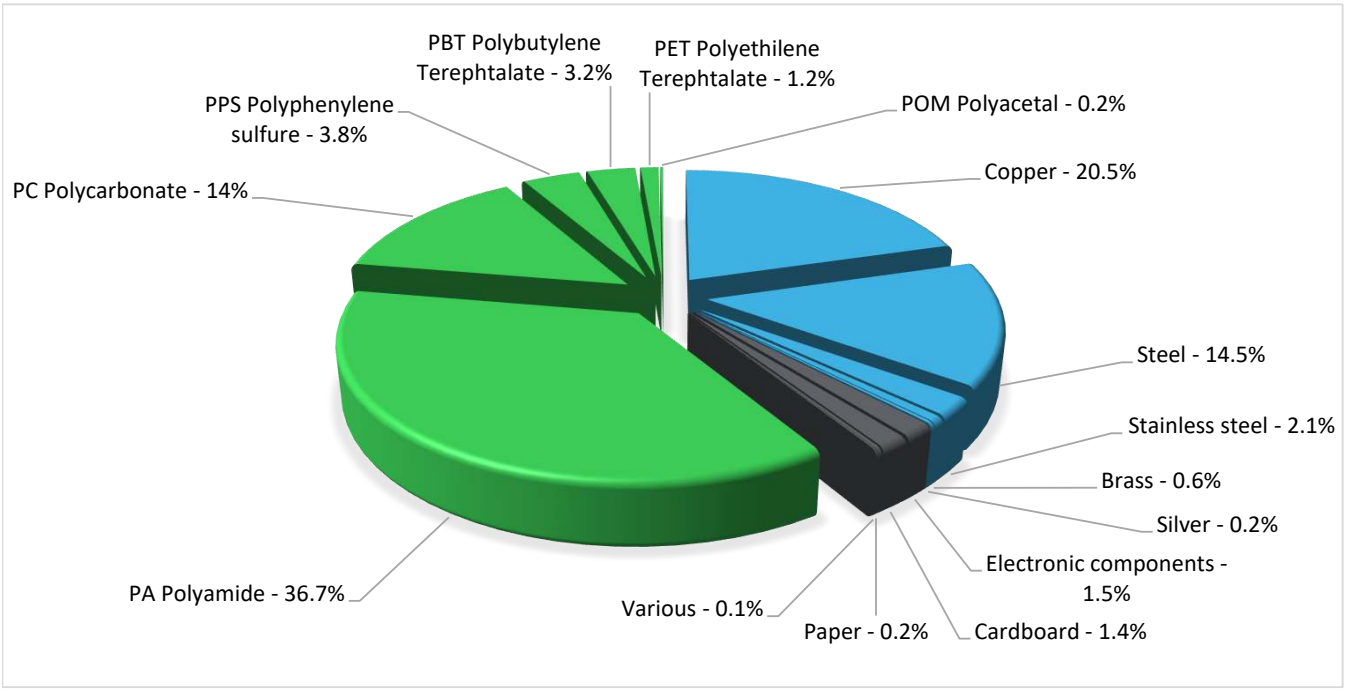


General information

Representative product	Acti9-Residual current circuit breaker-iID - A9R01463
Description of the product	The main purpose of the iID product range is to ensure protection of persons against electric shocks
Functional unit	Turn off all or part of an installation by separating the installation or part of the installation of all electrical energy or earth, for safety reasons with a rated voltage 415V and rated current 63A ensuring isolation characterized by rated voltage 500V. This function is provided for 20 years.

Constituent materials

Reference product mass	376 g	including the product, its packaging and additional elements and accessories



	Plastics	57.1%
	Metals	37.9%
	Others	3.2%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) 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) 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

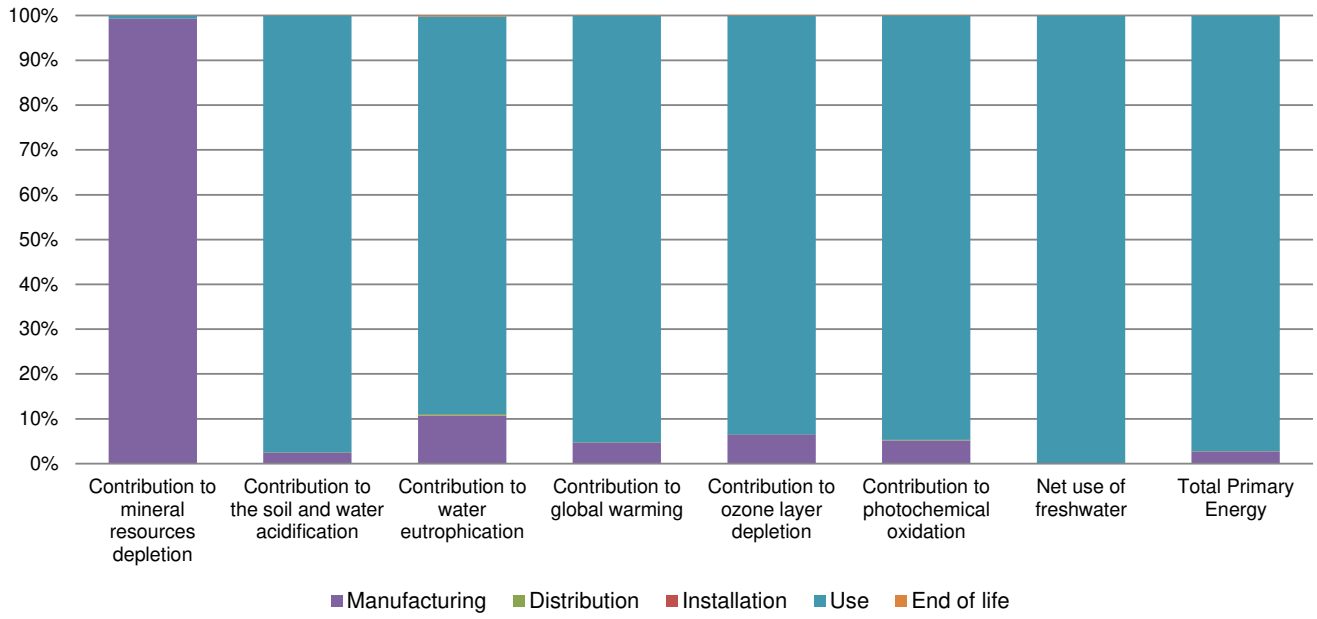
Additional environmental information

The Acti9-Residual current circuit breaker-iID 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 5.6 g, consisting of cardboard (89.93%), paper (10.07%)
Installation	Ref A9R01463 does not 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: **34%** 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	Disconnectors - Low voltage			
Installation elements	No special components needed			
Use scenario	Load rate: 50% Use time rate (closed unit): 30% of RLT			
Geographical representativeness	Europe			
Technological representativeness	The main purpose of the iID product range is to ensure protection of persons against electric shocks			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: Spain	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators	Acti9-Residual current circuit breaker-iID - A9R01463						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	7.02E-04	6.97E-04	0*	0*	4.70E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	2.32E-01	5.61E-03	2.22E-04	0*	2.26E-01	1.12E-04
Contribution to water eutrophication	kg PO_4^{3-} eq	1.53E-02	1.64E-03	5.10E-05	0*	1.36E-02	3.31E-05
Contribution to global warming	kg CO_2 eq	5.68E+01	2.65E+00	4.85E-02	0*	5.41E+01	6.76E-02
Contribution to ozone layer depletion	kg CFC11 eq	3.77E-06	2.44E-07	0*	0*	3.52E-06	2.61E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	1.31E-02	6.82E-04	1.58E-05	0*	1.24E-02	1.15E-05
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.96E+02	2.46E-02	0*	0*	1.96E+02	0*
Total Primary Energy	MJ	1.11E+03	3.03E+01	6.86E-01	0*	1.08E+03	5.37E-01



Optional indicators		Acti9-Residual current circuit breaker-iID - A9R01463					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	6.34E+02	1.87E+01	6.82E-01	0*	6.14E+02	4.32E-01
Contribution to air pollution	m³	3.01E+03	6.73E+02	2.06E+00	0*	2.33E+03	3.92E+00
Contribution to water pollution	m³	3.22E+03	9.73E+02	7.98E+00	0*	2.23E+03	4.92E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.77E-02	1.77E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.38E+02	7.97E-01	0*	0*	1.37E+02	0*
Total use of non-renewable primary energy resources	MJ	9.73E+02	2.95E+01	6.85E-01	0*	9.43E+02	5.36E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.38E+02	7.72E-01	0*	0*	1.37E+02	0*
Use of renewable primary energy resources used as raw material	MJ	2.56E-02	2.56E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.68E+02	2.41E+01	6.85E-01	0*	9.43E+02	5.36E-01
Use of non renewable primary energy resources used as raw material	MJ	5.43E+00	5.43E+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	1.68E+01	1.62E+01	0*	0*	2.82E-02	6.05E-01
Non hazardous waste disposed	kg	2.03E+02	1.23E+00	0*	0*	2.02E+02	0*
Radioactive waste disposed	kg	1.36E-01	8.82E-04	0*	0*	1.35E-01	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.66E-01	3.59E-02	0*	5.53E-03	0*	1.24E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.10E-02	0*	0*	0*	0*	1.10E-02
Exported Energy	MJ	1.76E-05	1.65E-06	0*	1.59E-05	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.8.1, 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).

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	09/2019	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal External X

The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)

PEP are compliant with XP C08-100-1 :2016

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

Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »

Schneider Electric Industries SAS

Country Customer Care Center
http://www.schneider-electric.com/contact

35, rue Joseph Monier

CS 30323

F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 896 313 776 €

www.schneider-electric.com

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