

# Product Environmental Profile

## Easy 9 Switch Disconnecter





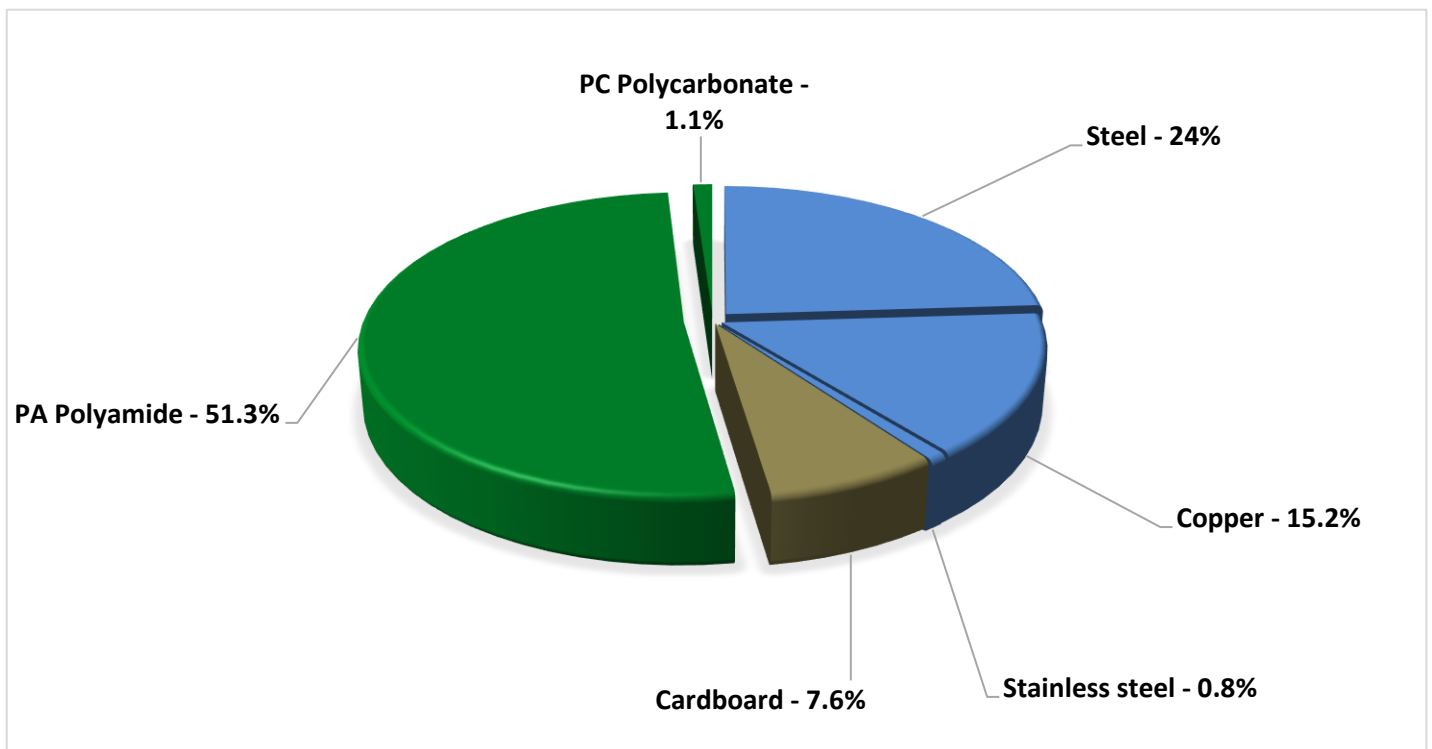
## General information

<b>Representative product</b>	Easy 9 Switch Disconnecter - EZ9S16163
<b>Description of the product</b>	The main purpose of the Easy 9 Switch Disconnecter is to satisfy the isolating requirements specified for a disconnecter.
<b>Functional unit</b>	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current 63A, including any conditions specified for overload in operation characterized by the current 63A, for the operating voltage 230V and a current for shortcircuit 1.26kA for a specified time.



## Constituent materials

<b>Reference product mass</b>	87.8 g including the product, its packaging and additional elements and accessories
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Plastics	52.4%
Metals	40.0%
Others	7.6%



## 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

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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 Easy 9 Switch Disconnecter presents the following relevant environmental aspects

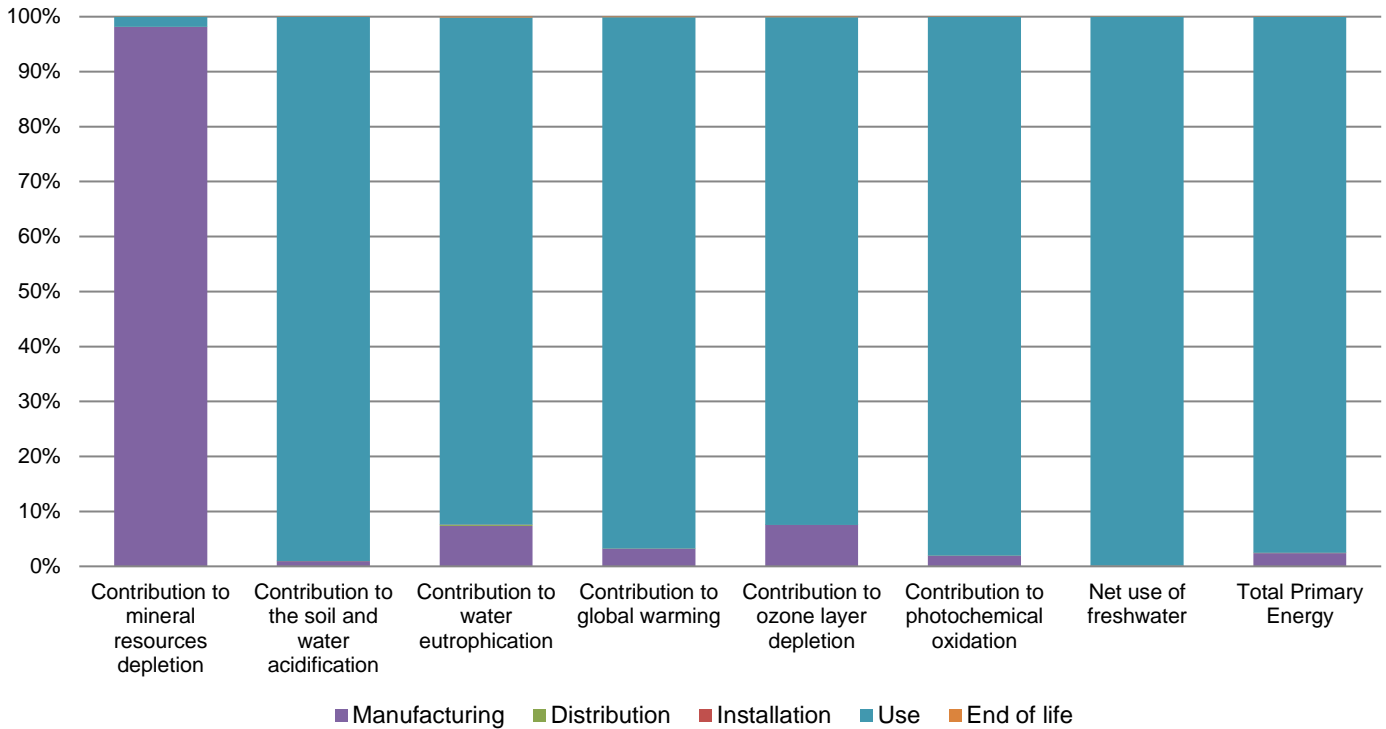
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 6.7 g, consisting of cardboard (100%)
<b>Installation</b>	Reference EZ9S16163 does not require any installation operations. Packaging waste is considered in installation.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	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: <b>39%</b> 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

<b>Reference life time</b>	20 years			
<b>Product category</b>	Switches			
<b>Installation elements</b>	No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.			
<b>Use scenario</b>	Load rate: 50% of In Use time rate: 30% of RLT			
<b>Geographical representativeness</b>	Asia, Europe			
<b>Technological representativeness</b>	The main purpose of the Easy 9 Switch Disconnecter is to satisfy the isolating requirements specified for a disconnecter.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; RU	Electricity mix; AC; consumption mix, at consumer; 220V; RU	Electricity mix; AC; consumption mix, at consumer; 220V; RU

Compulsory indicators		Easy 9 Switch Disconnecter - EZ9S16163					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	5.76E-05	5.65E-05	0*	0*	1.07E-06	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	1.48E-01	1.40E-03	5.17E-05	0*	1.46E-01	2.49E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	5.05E-03	3.71E-04	1.19E-05	0*	4.66E-03	7.26E-06
Contribution to global warming	kg CO <sub>2</sub> eq	1.93E+01	6.14E-01	1.13E-02	0*	1.87E+01	1.46E-02
Contribution to ozone layer depletion	kg CFC11 eq	5.16E-07	3.88E-08	0*	0*	4.76E-07	5.73E-10
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	8.16E-03	1.55E-04	3.69E-06	0*	7.99E-03	2.56E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	6.10E+00	7.01E-03	0*	0*	6.09E+00	0*
Total Primary Energy	MJ	2.32E+02	5.57E+00	1.60E-01	0*	2.26E+02	1.19E-01



Optional indicators		Easy 9 Switch Disconnecter - EZ9S16163						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	2.66E+02	4.27E+00	1.59E-01	0*	2.62E+02	1.09E-01	
Contribution to air pollution	m <sup>3</sup>	1.42E+03	1.39E+02	4.82E-01	0*	1.28E+03	8.71E-01	
Contribution to water pollution	m <sup>3</sup>	7.04E+02	2.11E+02	1.86E+00	0*	4.90E+02	1.08E+00	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	2.93E-03	2.93E-03	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	3.26E+01	1.96E-01	0*	0*	3.24E+01	0*	
Total use of non-renewable primary energy resources	MJ	1.99E+02	5.37E+00	1.60E-01	0*	1.94E+02	1.19E-01	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.25E+01	5.87E-02	0*	0*	3.24E+01	0*	
Use of renewable primary energy resources used as raw material	MJ	1.38E-01	1.38E-01	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.98E+02	4.03E+00	1.60E-01	0*	1.94E+02	1.19E-01	
Use of non renewable primary energy resources used as raw material	MJ	1.33E+00	1.33E+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	4.25E+00	3.98E+00	0*	0*	1.46E-01	1.31E-01	
Non hazardous waste disposed	kg	1.06E+02	4.66E-01	0*	0*	1.06E+02	0*	
Radioactive waste disposed	kg	1.17E-02	1.93E-04	0*	0*	1.15E-02	0*	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	4.40E-02	5.59E-03	0*	6.64E-03	0*	3.18E-02	
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	2.63E-03	3.35E-04	0*	0*	0*	2.30E-03	
Exported Energy	MJ	0.00E+00	0*	0*	0*	0*	0*	

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

Life cycle assessment performed with EIME version EIME v5.8.0, 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.

Registration number	ENVPEP1309001_V2	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	12/2018	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<i>Independent verification of the declaration and data</i>			
Internal	External X		
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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](http://www.schneider-electric.com)

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