

# Product Environmental Profile

## 3-WAY SWITCH MOD RESI SINGLE POLE





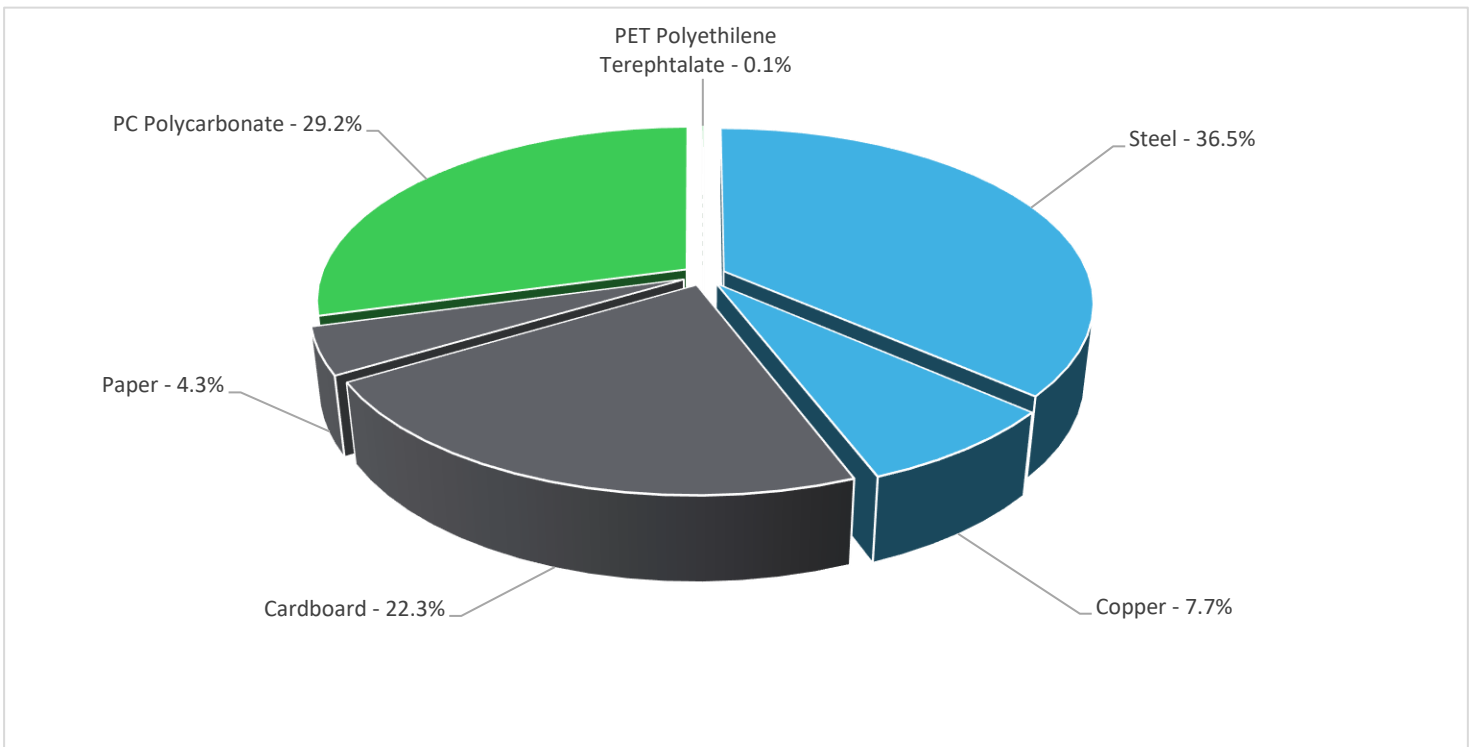
## General information

<b>Representative product</b>	3-WAY SWITCH MOD RESI SINGLE POLE - SQR14131XX
<b>Description of the product</b>	3-way switch module, residential, supports single pole, three-way, and four-way switches.
<b>Functional unit</b>	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current 15A, including any conditions specified for overload in operation characterized by the current 15A, for the operating voltage 120V and a current for shortcircuit 20A for a specified time. Parameter refer to UL20.



## Constituent materials

<b>Reference product mass</b>	105.4 g including the product, its packaging and additional elements and accessories
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Plastics	29.3%
Metals	44.2%
Others	26.6%



## 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 EU 2015/863) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium, flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), or phthalates (Bis(2-ethylhexyl) phthalate DEHP, Butyl benzyl 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>

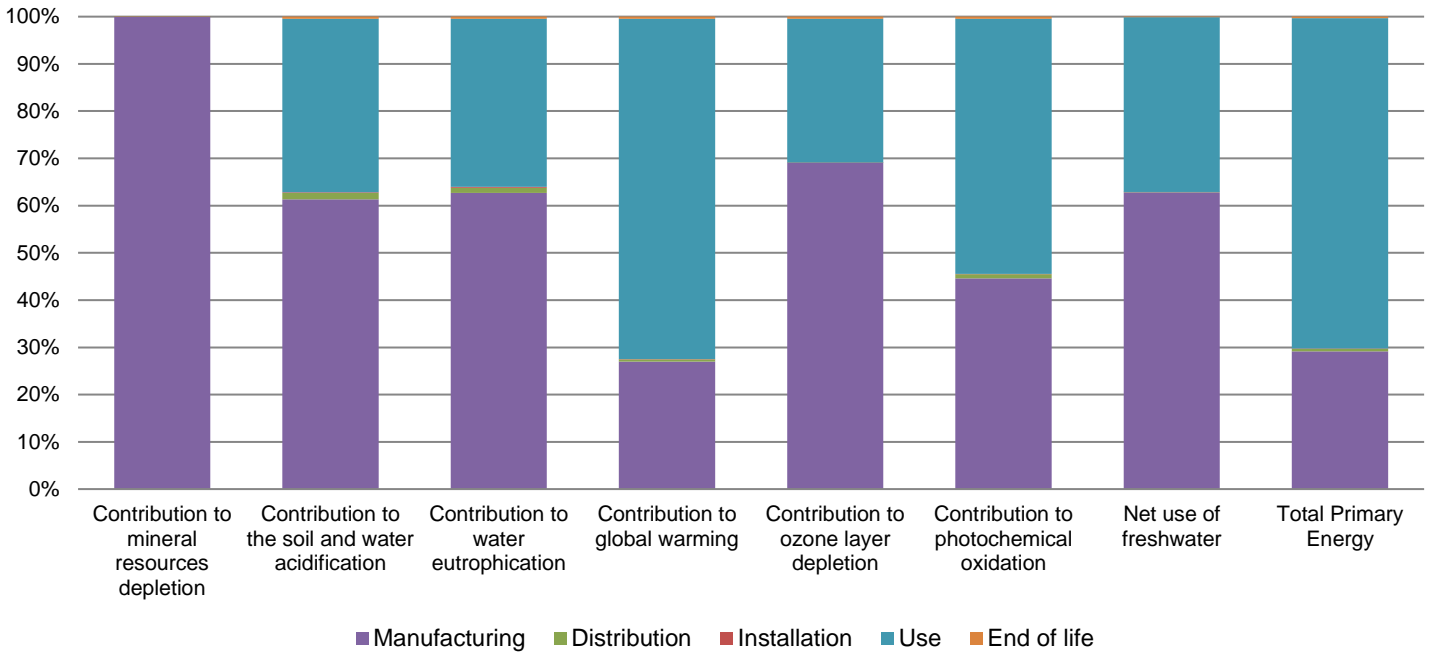
## Additional environmental information

<b>Manufacturing</b>	Manufactured at a production site complying with the regulations
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 31.2 g, consisting of cardboard (75.7%), Paper (14.4%), Plastic (0.3%), Screw (9.6%)
<b>Installation</b>	SQR14131XX does not require any installation operations.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	<p>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</p> <p>No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.</p> <p>Recyclability potential: <b>54%</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).</p>

## Environmental impacts

<b>Reference life time</b>	20 years ( Product lifetime is 10 years, based on PSR0005, consider two products.)			
<b>Product category</b>	Switches			
<b>Installation elements</b>	end of life of the packaging for installation (screw)			
<b>Use scenario</b>	Product energy consumption is 0.4 W at 100% Load rate and 0.1 W at 50% of Load rate and Use rate at 50% of the RLT.			
<b>Geographical representativeness</b>	US			
<b>Technological representativeness</b>	All the technologies pertaining to product manufacturing are represented in manufacturing phase properly.			
<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; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US

Compulsory indicators		3-WAY SWITCH MOD RESI SINGLE POLE - SQR14131XX					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.05E-04	1.05E-04	0*	0*	3.58E-08	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	9.49E-03	5.82E-03	1.24E-04	1.43E-05	3.48E-03	4.49E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	2.59E-03	1.62E-03	2.86E-05	5.03E-06	9.18E-04	1.25E-05
Contribution to global warming	kg CO <sub>2</sub> eq	5.06E+00	1.36E+00	2.72E-02	3.42E-03	3.64E+00	2.34E-02
Contribution to ozone layer depletion	kg CFC11 eq	2.17E-07	1.50E-07	5.51E-11	0*	6.60E-08	1.01E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	1.03E-03	4.61E-04	8.86E-06	1.07E-06	5.58E-04	4.69E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.74E-02	1.09E-02	2.43E-06	0*	6.43E-03	2.04E-05
Total Primary Energy	MJ	7.01E+01	2.04E+01	3.85E-01	4.46E-02	4.90E+01	2.19E-01



Optional indicators		3-WAY SWITCH MOD RESI SINGLE POLE - SQR14131XX					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	5.60E+01	1.11E+01	3.82E-01	4.42E-02	4.43E+01	1.76E-01
Contribution to air pollution	m³	5.47E+02	2.35E+02	1.16E+00	1.42E-01	3.09E+02	1.58E+00
Contribution to water pollution	m³	6.39E+02	4.53E+02	4.47E+00	5.17E-01	1.79E+02	1.90E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.76E-02	1.76E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	4.24E+00	1.30E+00	5.12E-04	0*	2.94E+00	0*
Total use of non-renewable primary energy resources	MJ	6.58E+01	1.91E+01	3.84E-01	4.45E-02	4.61E+01	2.19E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.15E+00	2.05E-01	5.12E-04	0*	2.94E+00	0*
Use of renewable primary energy resources used as raw material	MJ	1.09E+00	1.09E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.37E+01	1.70E+01	3.84E-01	4.45E-02	4.61E+01	2.19E-01
Use of non renewable primary energy resources used as raw material	MJ	2.11E+00	2.11E+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	8.80E+00	8.49E+00	0*	0*	9.73E-02	2.18E-01
Non hazardous waste disposed	kg	1.15E+00	5.83E-01	9.66E-04	4.50E-03	5.56E-01	6.71E-04
Radioactive waste disposed	kg	4.32E-04	3.73E-04	6.88E-07	1.09E-07	5.73E-05	1.06E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.60E-01	2.07E-02	0*	5.81E-02	0*	8.07E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	3.09E-03	0*	0*	0*	0*	3.09E-03
Exported Energy	MJ	1.78E-04	1.67E-05	0*	1.61E-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 v5.9.1, database version 2016-11 in compliance with ISO14044.

The Manufacturing phase has the greatest impact on Abiotic depletion, Acidification potential of soil and water, Eutrophication, Ozone and Net use of freshwater. The Use phase has the greatest impact on Global warming and Total Primary Energy. And they have the same impact on Photochemical oxidation.

*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.*

<i>Registration number</i>	ENVPEP2011019_V1	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
<i>Date of issue</i>	1/2021	<i>Supplemented by</i>	PSR-0005-ed2-EN-2016 03 29
<i>Validity period</i>	5 years	<i>Information and reference documents</i>	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<i>Independent verification of the declaration and data</i>			
<i>Internal</i>	X	<i>External</i>	
<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>			

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