

Product Environmental Profile

RS SWITCH 1-POLE SCREW PURE WHITE



Confidential



"This declaration is under Non-Disclosure Agreement for Sundahus & BVB and is a confidential property of Schneider-Electric."



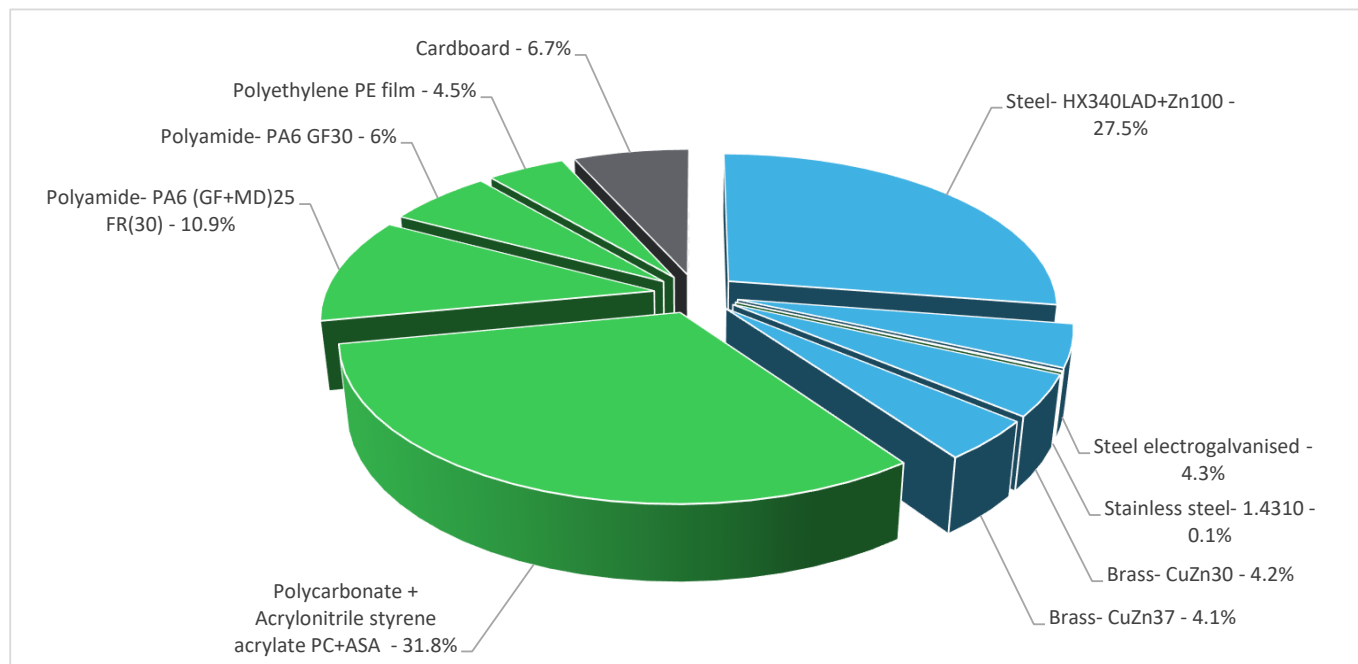
General information

Representative product	RS SWITCH 1-POLE SCREW PURE WHITE - EKO30100
Description of the product	The main purpose of the RS switch, rated at 16A 250V product range is to give a solution for the control of Electricity.
Functional unit	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current 16A, including any conditions specified for overload in operation characterized by the current 16A, for the operating voltage 250V for a specified time with IP20 protection in accordance with the standard IEC 60529



Constituent materials

Reference product mass	83 g	including the product, its packaging.
-------------------------------	------	---------------------------------------



Plastics	53.2%
Metals	40.2%
Others	6.7%



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

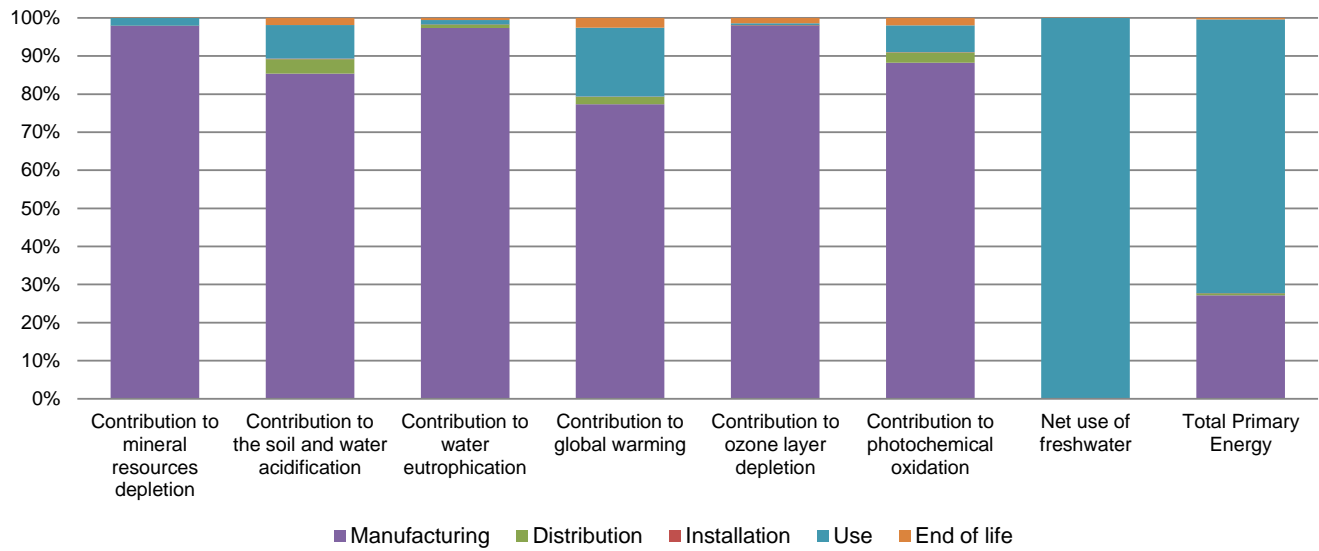
The RS SWITCH 1-POLE SCREW PURE WHITE presents the following relevant environmental aspects

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 6.8 g, consisting of cardboard (88.24%), PE film (11.76%) Product distribution optimised by setting up local distribution centres
Installation	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).
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: 40% 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	Switches								
Installation elements	No special components needed								
Use scenario	Product dissipation is 0.319 W @ 100% load rate and 0.08 W @ Load rate: 50% of In & Use rate: 30% of the RLT								
Geographical representativeness	Nordic countries								
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.								
Energy model used	<table border="1"> <thead> <tr> <th>Manufacturing</th> <th>Installation</th> <th>Use</th> <th>End of life</th> </tr> </thead> <tbody> <tr> <td>Manufacturing plant: Amot, Norway</td> <td>Electricity grid mix; AC; consumption mix, at consumer; 230V; NO</td> <td>Electricity grid mix; AC; consumption mix, at consumer; 230V; NO</td> <td>Electricity grid mix; AC; consumption mix, at consumer; 230V; NO</td> </tr> </tbody> </table>	Manufacturing	Installation	Use	End of life	Manufacturing plant: Amot, Norway	Electricity grid mix; AC; consumption mix, at consumer; 230V; NO	Electricity grid mix; AC; consumption mix, at consumer; 230V; NO	Electricity grid mix; AC; consumption mix, at consumer; 230V; NO
Manufacturing	Installation	Use	End of life						
Manufacturing plant: Amot, Norway	Electricity grid mix; AC; consumption mix, at consumer; 230V; NO	Electricity grid mix; AC; consumption mix, at consumer; 230V; NO	Electricity grid mix; AC; consumption mix, at consumer; 230V; NO						

Compulsory indicators		RS SWITCH 1-POLE SCREW PURE WHITE - EKO30100					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.26E-05	4.18E-05	0*	0*	8.49E-07	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.29E-03	1.10E-03	4.89E-05	1.66E-06	1.13E-04	2.43E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1.23E-03	1.20E-03	1.13E-05	6.37E-07	1.38E-05	7.06E-06
Contribution to global warming	kg CO ₂ eq	5.47E-01	4.23E-01	1.07E-02	4.05E-04	9.89E-02	1.41E-02
Contribution to ozone layer depletion	kg CFC11 eq	3.95E-08	3.87E-08	2.17E-11	0*	1.94E-10	5.60E-10
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1.31E-04	1.16E-04	3.49E-06	1.25E-07	9.26E-06	2.51E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	3.95E+01	1.18E-02	0*	0*	3.95E+01	0*
Total Primary Energy	MJ	2.86E+01	7.78E+00	1.51E-01	5.15E-03	2.06E+01	1.17E-01



Optional indicators		RS SWITCH 1-POLE SCREW PURE WHITE - EKO30100						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	5.63E+00	4.90E+00	1.50E-01	5.04E-03	4.80E-01	9.41E-02	
Contribution to air pollution	m³	1.02E+02	9.85E+01	4.56E-01	2.15E-02	2.38E+00	8.53E-01	
Contribution to water pollution	m³	1.38E+02	1.33E+02	1.76E+00	5.89E-02	1.55E+00	1.06E+00	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	7.82E-03	7.82E-03	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	1.99E+01	1.52E-01	0*	0*	1.97E+01	0*	
Total use of non-renewable primary energy resources	MJ	8.76E+00	7.63E+00	1.51E-01	5.12E-03	8.55E-01	1.17E-01	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.99E+01	1.34E-01	0*	0*	1.97E+01	0*	
Use of renewable primary energy resources used as raw material	MJ	1.79E-02	1.79E-02	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7.28E+00	6.15E+00	1.51E-01	5.12E-03	8.55E-01	1.17E-01	
Use of non renewable primary energy resources used as raw material	MJ	1.48E+00	1.48E+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	3.41E+00	3.28E+00	0*	0*	3.30E-03	1.27E-01	
Non hazardous waste disposed	kg	6.82E-01	4.16E-01	3.80E-04	6.81E-04	2.64E-01	3.58E-04	
Radioactive waste disposed	kg	3.94E-04	2.40E-04	2.71E-07	0*	1.54E-04	5.70E-07	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	4.67E-02	8.48E-03	0*	6.20E-03	0*	3.20E-02	
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	2.18E-03	0*	0*	0*	0*	2.18E-03	
Exported Energy	MJ	1.90E-05	1.78E-06	0*	1.72E-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 v5.9.1, database version 2016-11 in compliance with ISO14044.

The manufacturing 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	ENVPEP2101011_V2	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	06/2021	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<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

ENVPEP2101011_V2

Published by Schneider Electric

© 2019 - Schneider Electric – All rights reserved

06/2021