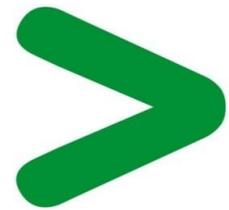


Product Environmental Profile

DOUBLE POLE SWITCH WITH NEON AND EARTH





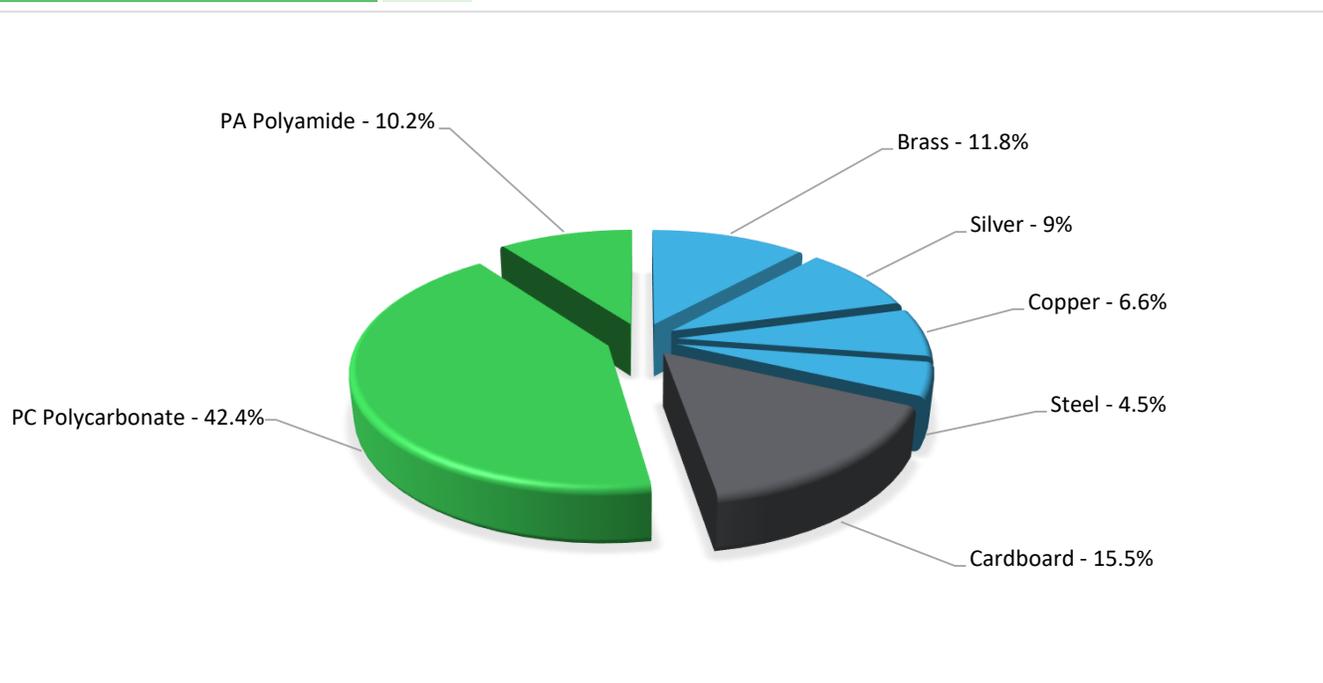
General information

Representative product	DOUBLE POLE SWITCH WITH NEON AND EARTH - KB31D20NE
Description of the product	DOUBLE POLE SWITCH WITH NEON AND EARTH is a switch to divert current.
Functional unit	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current 20A, including any conditions specified for overload in operation characterized by the current 20A, for the operating voltage 250V AC for a specified time, in accordance with IEC 60669-1.



Constituent materials

Reference product mass	112.3 g including the product, its packaging and additional elements and accessories
------------------------	--



Plastics	52.6%
Metals	31.9%
Others	15.5%



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

The DOUBLE POLE SWITCH WITH NEON AND EARTH presents the following relevant environmental aspects

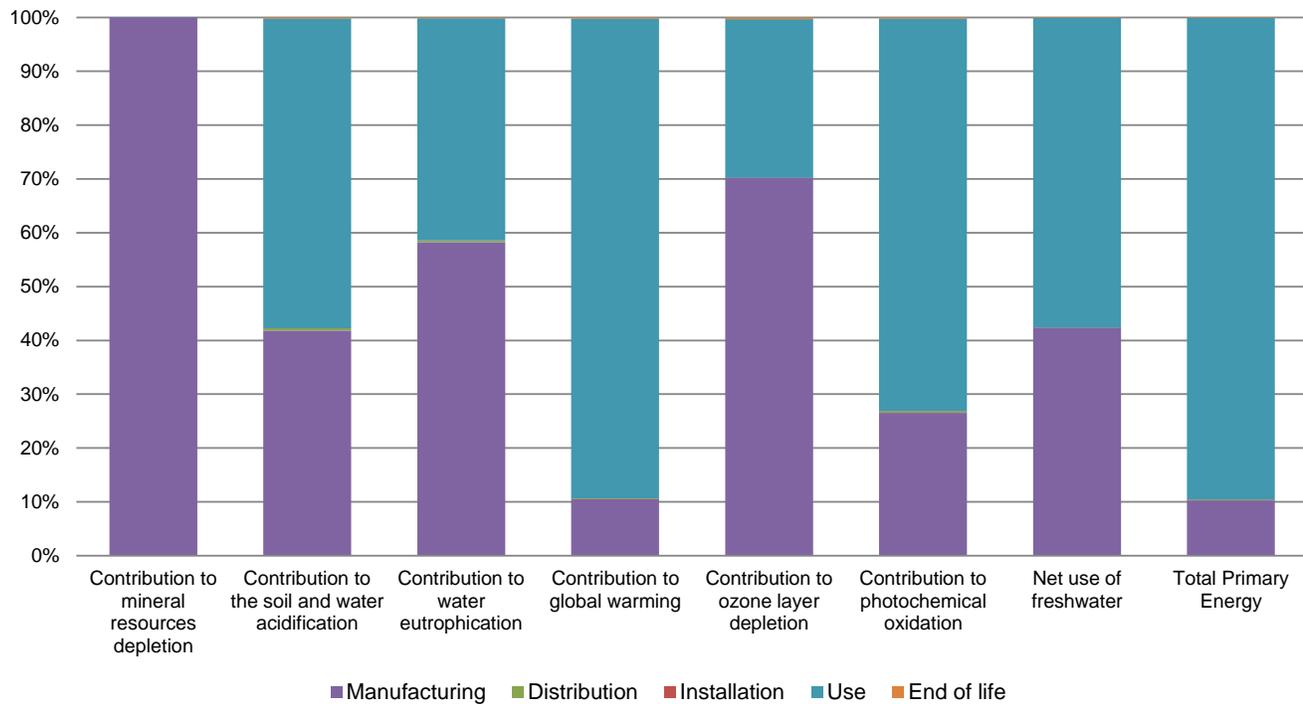
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified		
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 17.3 g, consisting of Cardboard (100%)		
Installation	Reference KB31D20NE does not require 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:	29%	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 0.578 W at 100% Load rate and 0.1445 W at load rate / rated current (In): 30% of In & percentage of utilization time: 50%			
Geographical representativeness	China			
Technological representativeness	All the technologies pertaining to product manufacturing are represented in manufacturing phase properly.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN

Compulsory indicators		DOUBLE POLE SWITCH WITH NEON AND EARTH - KB31D20NE					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	6.99E-03	6.99E-03	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.46E-02	6.09E-03	6.62E-05	3.90E-06	8.37E-03	2.91E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	5.35E-03	3.12E-03	1.52E-05	9.48E-07	2.21E-03	8.64E-06
Contribution to global warming	kg CO ₂ eq	8.67E+00	9.08E-01	1.45E-02	9.36E-04	7.72E+00	1.78E-02
Contribution to ozone layer depletion	kg CFC11 eq	2.09E-07	1.47E-07	2.94E-11	0*	6.15E-08	6.84E-10
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1.36E-03	3.60E-04	4.72E-06	2.92E-07	9.89E-04	2.98E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	1.50E-02	6.35E-03	0*	0*	8.62E-03	1.39E-05
Total Primary Energy	MJ	1.41E+02	1.45E+01	2.05E-01	0*	1.26E+02	1.39E-01



Optional indicators		DOUBLE POLE SWITCH WITH NEON AND EARTH - KB31D20NE					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.28E+02	1.07E+01	2.04E-01	0*	1.17E+02	1.12E-01
Contribution to air pollution	m³	1.04E+03	2.40E+02	6.16E-01	0*	8.01E+02	1.02E+00
Contribution to water pollution	m³	5.71E+02	1.83E+02	2.38E+00	1.42E-01	3.84E+02	1.28E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	5.76E-03	5.76E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	7.90E+00	1.42E+00	0*	0*	6.48E+00	0*
Total use of non-renewable primary energy resources	MJ	1.33E+02	1.31E+01	2.05E-01	0*	1.20E+02	1.39E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7.56E+00	1.07E+00	0*	0*	6.48E+00	0*
Use of renewable primary energy resources used as raw material	MJ	3.44E-01	3.44E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.32E+02	1.13E+01	2.05E-01	0*	1.20E+02	1.39E-01
Use of non renewable primary energy resources used as raw material	MJ	1.86E+00	1.86E+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	1.92E+01	1.88E+01	0*	0*	2.49E-01	1.61E-01
Non hazardous waste disposed	kg	2.55E+00	1.14E+00	5.15E-04	0*	1.40E+00	4.25E-04
Radioactive waste disposed	kg	5.42E-04	4.95E-04	3.67E-07	0*	4.62E-05	6.80E-07
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5.55E-02	1.11E-02	0*	1.72E-02	0*	2.72E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.93E-03	0*	0*	0*	0*	2.93E-03
Exported Energy	MJ	5.47E-05	5.14E-06	0*	4.96E-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 using phase has the greatest impact on Acidification potential of soil and water, Global Warming, Photochemical oxidation, Net use of freshwater and Total Primary Energy. The manufacturing phase has the greatest impact on Abiotic depletion, Eutrophication and Ozone layer depletion (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	ENVPEP110902EN_V2	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	09/2021	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

ENVPEP110902EN_V2

Published by Schneider Electric

© 2019 - Schneider Electric – All rights reserved

09/2021