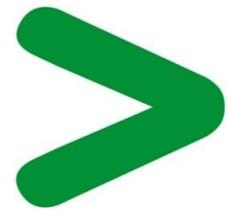


# Product Environmental Profile

**Circuit breaker status OF-SD-SDE-SDV, Screwless**





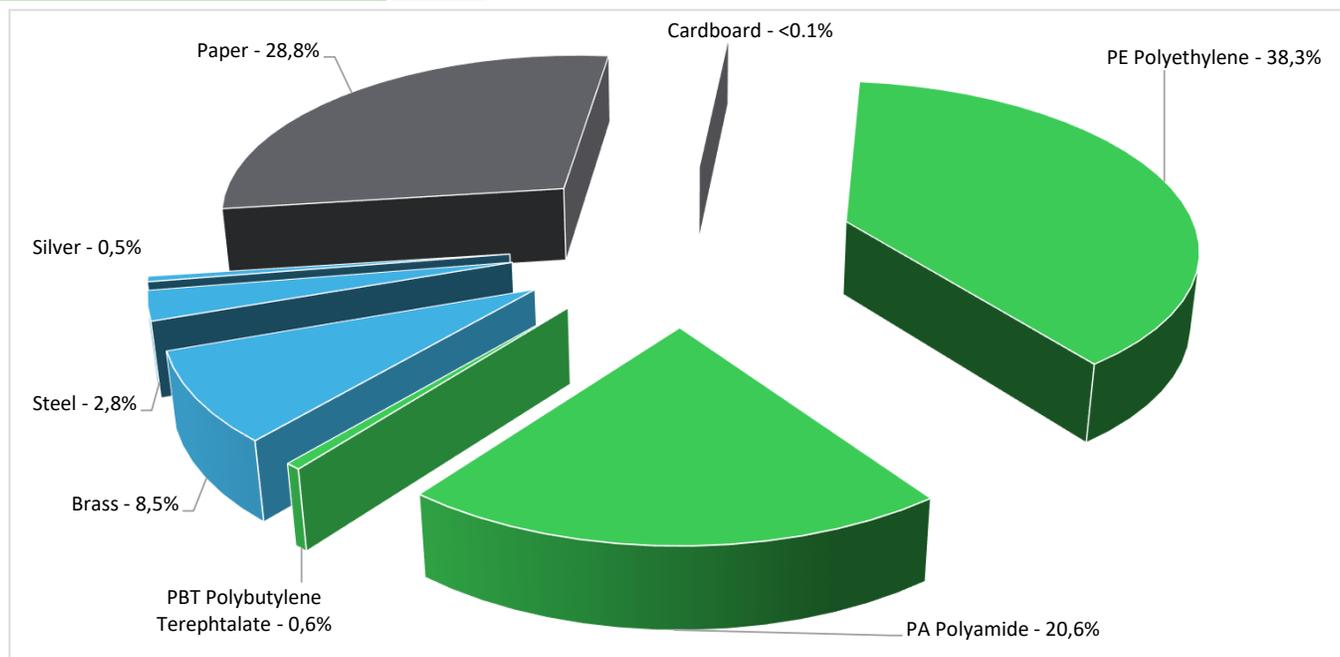
## General information

<b>Representative product</b>	Circuit breaker status OF-SD-SDE-SDV, Screwless - 29450
<b>Description of the product</b>	Auxiliary indication contact. It clips into slots behind the front cover of the circuit breakers NSX 100 to 630A (or Vigi module). This common-point changeover contact provides remote circuit-breaker status information: open, closed or tripped. It can be used for indications, electrical locking, relaying.
<b>Functional unit</b>	To provide to auxiliary circuit the breaker status (open/close/trip), 100% use rate during 20 years, according to IEC 60947-2.



## Constituent materials

<b>Reference product mass</b>	26,136 g including the product, its packaging and additional elements and accessories
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Plastics	59,5%
Metals	11,8%
Others	28,8%



## 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](http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium_page)

## Additional environmental information

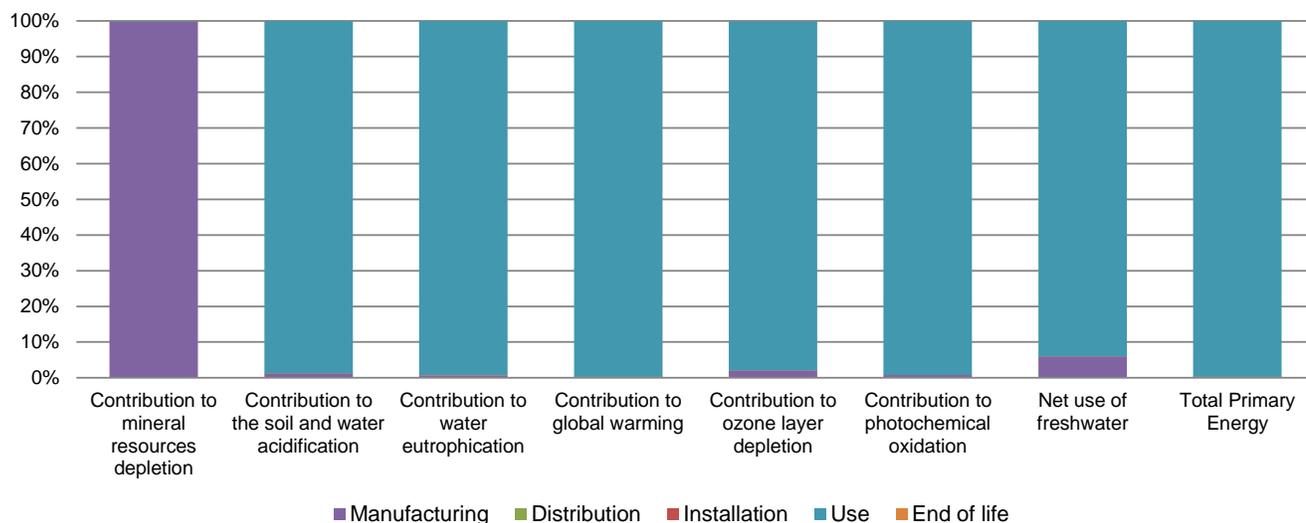
The Circuit breaker status OF-SD-SDE-SDV, Screwless presents the following relevant environmental aspects

<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 17,5 g, consisting of Cardboard (<0.1%), Polyethylene PE-LD (38,8%) , Paper (28,8%) Product distribution optimised by setting up local distribution centres
<b>Installation</b>	Does not require any installation operations
<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>27%</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>	Other equipments - Passive product - continuous operation			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	Product consumption is 2,5W at 100% Load rate and 0,225 W at load rate/ rated current (In): 30 % of In & percentage of utilization time: 100%			
<b>Geographical representativeness</b>	China			
<b>Technological representativeness</b>	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.			
<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; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN

Compulsory indicators		Circuit breaker status OF-SD-SDE-SDV, Screwless - 29450					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	7,79E-05	7,77E-05	0*	0*	1,76E-07	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	4,40E-02	5,39E-04	1,54E-05	5,59E-06	4,35E-02	0*
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	1,16E-02	7,79E-05	3,55E-06	4,27E-06	1,15E-02	0*
Contribution to global warming	kg CO <sub>2</sub> eq	4,02E+01	1,07E-01	0*	0*	4,01E+01	0*
Contribution to ozone layer depletion	kg CFC11 eq	3,26E-07	6,80E-09	0*	0*	3,19E-07	6,30E-11
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	5,18E-03	3,78E-05	1,10E-06	0*	5,14E-03	0*
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	4,76E-02	2,85E-03	0*	0*	4,48E-02	0*
Total Primary Energy	MJ	6,58E+02	1,70E+00	0*	0*	6,56E+02	0*



Optional indicators		Circuit breaker status OF-SD-SDE-SDV, Screwless - 29450						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	6,07E+02	1,02E+00	0*	0*	6,06E+02	0*	
Contribution to air pollution	m³	4,18E+03	2,18E+01	0*	0*	4,16E+03	0*	
Contribution to water pollution	m³	2,02E+03	2,08E+01	5,55E-01	0*	1,99E+03	0*	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	8,38E-03	8,38E-03	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	3,38E+01	1,69E-01	0*	0*	3,37E+01	0*	
Total use of non-renewable primary energy resources	MJ	6,24E+02	1,53E+00	0*	0*	6,22E+02	0*	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3,38E+01	1,69E-01	0*	0*	3,37E+01	0*	
Use of renewable primary energy resources used as raw material	MJ	7,53E-06	7,53E-06	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6,23E+02	8,71E-01	0*	0*	6,22E+02	0*	
Use of non renewable primary energy resources used as raw material	MJ	6,63E-01	6,63E-01	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	1,75E+00	4,38E-01	0*	0*	1,29E+00	1,49E-02	
Non hazardous waste disposed	kg	7,31E+00	3,12E-02	0*	8,02E-03	7,27E+00	0*	
Radioactive waste disposed	kg	2,62E-04	2,17E-05	8,53E-08	2,87E-07	2,40E-04	6,23E-08	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	1,46E-02	1,90E-03	0*	1,04E-02	0*	2,31E-03	
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	2,78E-04	0*	0*	0*	0*	2,78E-04	
Exported Energy	MJ	2,37E-05	2,18E-06	0*	2,16E-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 phases which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

The Manufacturing phase is impacting on Indicator of Abiotic depletion (elements, ultimate reserves) (ADPe). And the Use phase impacting on the rest of 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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<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>			
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>			

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