

# Product Environmental Profile

## XB2 Selector Switch

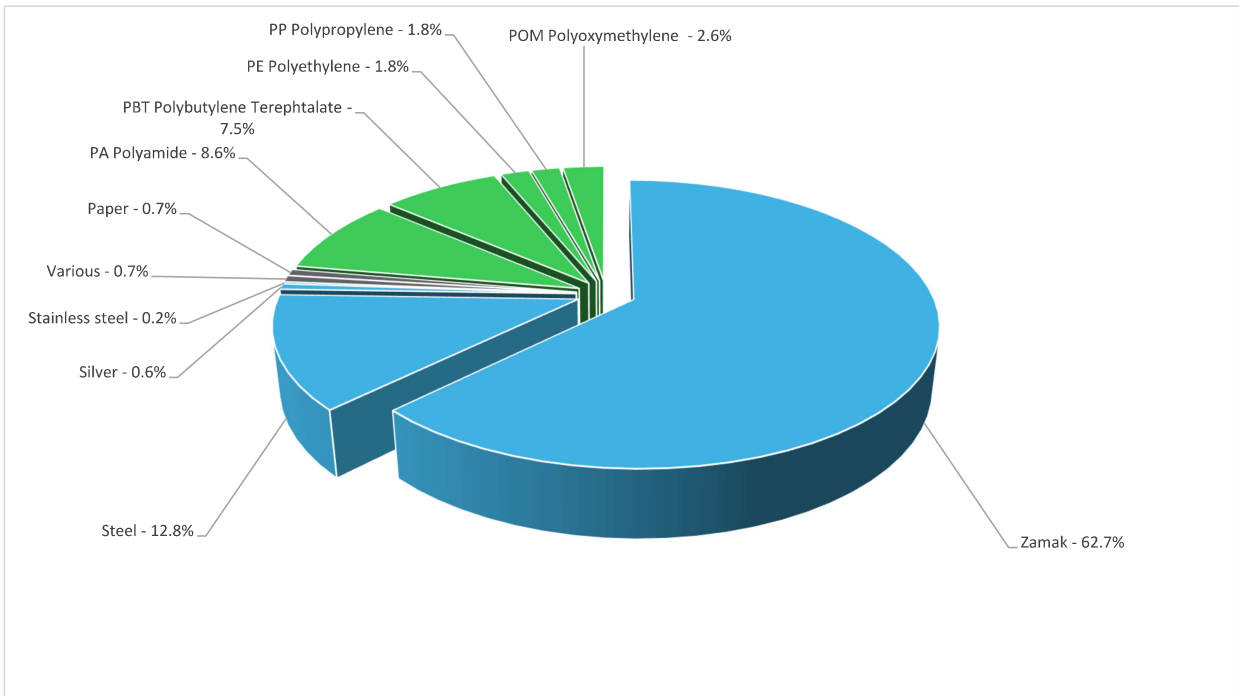


## General information

Representative product	XB2 Selector Switch - XB2BD21C
Description of the product	Selector switch can be rotated right, left, or in the center in order to open or close the electrical contacts.
Functional unit	This switch primary function is to control devices as well as switch between a minimum of two electrical circuits with a power consumption of 0.015W with use rate of 72% for a period of 10 years and product is adhering to standards EN/IEC 60947-5-1

## Constituent materials

Reference product mass	82.6 g including the product, its packaging and additional elements and accessories
------------------------	---



Plastics	22.30%
Metals	76.30%
Others	1.40%

## Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <https://www.se.com/ww/en/work/support/green-premium/>

## Additional environmental information

End Of Life	Recyclability potential:	78%	Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).
-------------	--------------------------	-----	---

## Environmental impacts

Reference service life time	10 years			
Product category	Other equipments - Active product			
Installation elements	No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.			
Use scenario	The product is in active mode 72% of the time with a power use of 0.015 W and in off mode 28% of the time with a power use of 0 W for 10 years			
Geographical representativeness	China			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; CN	Electricity Mix; Production mix; Low voltage; CN	Electricity Mix; Production mix; Low voltage; CN	Electricity Mix; Production mix; Low voltage; CN

Detailed results, including all the optional indicators mentioned in PCRred4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

Mandatory Indicators		XB2 Selector Switch - XB2BD21C						
Impact indicators	Unit	Total	Manufacturing [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to climate change	kg CO2 eq	1.70E+00	6.29E-01	4.39E-02	1.82E-04	8.26E-01	1.99E-01	-1.77E-01
Contribution to climate change-fossil	kg CO2 eq	1.70E+00	6.28E-01	4.39E-02	1.82E-04	8.26E-01	1.99E-01	-1.77E-01
Contribution to climate change-biogenic	kg CO2 eq	1.81E-03	1.69E-03	0*	0*	1.18E-04	0*	-7.05E-05
Contribution to climate change-land use and land use change	kg CO2 eq	0.00E+00	0*	0*	0*	0*	0*	-1.66E-08
Contribution to ozone depletion	kg CFC-11 eq	2.20E-07	1.76E-07	3.88E-08	0*	4.72E-09	6.19E-10	-1.95E-10
Contribution to acidification	mol H+ eq	1.20E-02	5.01E-03	1.93E-04	0*	6.18E-03	6.12E-04	-5.94E-04
Contribution to eutrophication, freshwater	kg (PO4) <sup>3-</sup> eq	7.56E-06	7.35E-06	5.15E-09	0*	1.74E-07	3.05E-08	-1.16E-07
Contribution to eutrophication marine	kg N eq	1.59E-03	7.24E-04	8.89E-05	5.38E-07	6.61E-04	1.11E-04	-1.01E-04
Contribution to eutrophication, terrestrial	mol N eq	1.69E-02	7.27E-03	9.63E-04	5.91E-06	7.49E-03	1.22E-03	-1.10E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.47E-03	2.50E-03	3.15E-04	1.49E-06	2.21E-03	4.41E-04	-4.14E-04
Contribution to resource use, minerals and metals	kg Sb eq	5.22E-04	5.22E-04	0*	0*	0*	0*	-8.32E-09
Contribution to resource use, fossils	MJ	3.78E+01	1.09E+01	5.34E-01	0*	1.34E+01	1.30E+01	-1.35E+01
Contribution to water use	m3 eq	4.58E-01	3.50E-01	2.23E-03	0*	3.63E-02	6.92E-02	-7.36E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators		XB2 Selector Switch - XB2BD21C						
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.54E+00	1.31E-01	0*	0*	1.41E+00	2.40E-04	-4.34E-03
Contribution to use of renewable primary energy resources used as raw material	MJ	1.06E-02	1.06E-02	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	1.55E+00	1.42E-01	0*	0*	1.41E+00	2.40E-04	-4.34E-03
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.72E+01	1.03E+01	5.34E-01	0*	1.34E+01	1.30E+01	-1.35E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	6.16E-01	6.16E-01	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	3.78E+01	1.09E+01	5.34E-01	0*	1.34E+01	1.30E+01	-1.35E+01
Contribution to use of secondary material	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m³	1.06E-02	8.07E-03	5.20E-05	0*	8.46E-04	1.61E-03	-1.73E-03
Contribution to hazardous waste disposed	kg	2.40E+00	2.28E+00	0*	0*	2.51E-02	8.88E-02	-1.56E-05
Contribution to non hazardous waste disposed	kg	2.16E-01	6.39E-02	4.48E-05	0*	1.44E-01	8.04E-03	-4.16E-03
Contribution to radioactive waste disposed	kg	6.10E-05	4.56E-05	8.74E-06	0*	5.89E-06	7.92E-07	-7.09E-07
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	6.53E-02	0*	0*	3.60E-03	0*	6.17E-02	-6.79E-02
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

Manufacturing phase has greatest impact on indicators like Climate change-Biogenic(PEF-GWPb),Ozone depletion(PEF-ODP),Eutrophication, freshwater(PEF-Epf),Resource use, minerals and metals(PEF-ADPe),Water use(PEF-WU). Use phase has greatest impact on indicators like Climate change-Fossil(PEF-GWPF),Acidification(PEF-AP) and Eutrophication, terrestrial(PEF-Ept)

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 :	ENVPEP2211049_V1	Drafting rules	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0005-ed2-2016 03 29
Date of issue	01/2023	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
Internal	X	External	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 :2016			
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14021 : 2016 « Environmental labels and declarations. Type II environmental declarations »			

Schneider Electric Industries SAS  
Country Customer Care Center  
<http://www.schneider-electric.com/contact>  
35, rue Joseph Monier  
CS 30323  
F- 92500 Rueil Malmaison Cedex  
RCS Nanterre 954 503 439  
Capital social 896 313 776 €

[www.se.com](http://www.se.com)

Published by Schneider Electric

© 2022 - Schneider Electric – All rights reserved