Product Environmental Profile

CLIPSAL - 56 SERIES SURFACE SWITCH

as referent product for :

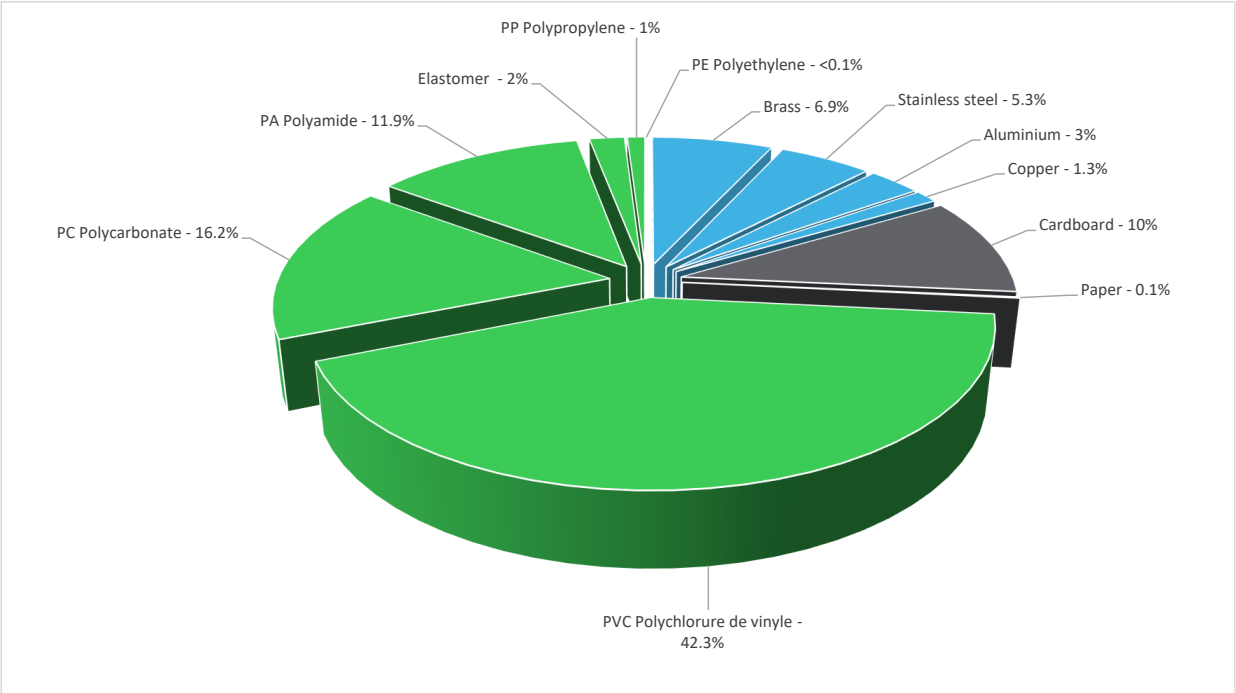
All Surface Switches in Clipsal Range

General information

Reference product	CLIPSAL - 56 SERIES SURFACE SWITCH - 56SW320-GY
Description of the product	The main purpose of the Clipsal surface switch product range is to provide a solution for the control of electricity.
Description of the range	The indicator values of this ClSurface switch can be extrapolated based on the mass and energy values of the products. for other Surface Switch range of products. The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current [Ith] 20 A, including any conditions specified for overload in operation characterized by the current [Ie] 20 A, for the operating voltage [Ue] 500 V AC and a current for shortcircuit [Icw] 1.2 kA for 1 second, with IP66 protection in accordance with te standard AS 60529.

Constituent materials

Reference product mass	640 g	including the product, its packaging and additional elements and accessories



	Plastics	73.4%
	Metals	16.5%
	Others	10.1%

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:	**18%**	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	20 years			
Product category	Switches			
Installation elements	The product does not require a special installation procedure and requires little to no energy to install.			
Use scenario	Load rate: 50% of 20A [In] Use time rate: 30% of the time over 20 years [RLT]			
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.			
Geographical representativeness	Australia			
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; Production mix; Low voltage; VN	Electricity Mix; Production mix; Low voltage; AUS	Electricity Mix; Production mix; Low voltage; AUS	Electricity Mix; Production mix; Low voltage; AUS

Detailed results, including all the impact indicators mentioned in PCRed4 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		CLIPSAL - 56 SERIES SURFACE SWITCH - 56SW320-GY						
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	8.51E+00	3.29E+00	1.84E-01	1.13E-01	3.42E+00	1.51E+00	-1.66E+00
Contribution to climate change-fossil	kg CO2 eq	8.40E+00	3.18E+00	1.84E-01	1.08E-01	3.42E+00	1.51E+00	-1.65E+00
Contribution to climate change-biogenic	kg CO2 eq	1.14E-01	1.05E-01	0*	5.02E-03	1.67E-03	1.58E-03	-1.19E-02
Contribution to climate change-land use and land use change	kg CO2 eq	2.75E-08	0*	0*	1.12E-09	0*	2.64E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	6.95E-07	4.89E-07	1.63E-07	7.48E-09	1.66E-08	1.90E-08	-4.13E-07
Contribution to acidification	mol H+ eq	5.27E-02	2.73E-02	8.02E-04	4.48E-04	2.24E-02	1.74E-03	-1.33E-02
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	9.24E-05	3.53E-05	2.16E-08	8.21E-07	2.42E-08	5.63E-05	-4.97E-06
Contribution to eutrophication marine	kg N eq	7.68E-03	4.34E-03	3.68E-04	1.19E-04	2.48E-03	3.69E-04	-1.02E-03
Contribution to eutrophication, terrestrial	mol N eq	8.40E-02	4.66E-02	3.99E-03	8.97E-04	2.82E-02	4.36E-03	-1.12E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.56E-02	1.45E-02	1.31E-03	2.39E-04	8.29E-03	1.27E-03	-4.30E-03
Contribution to resource use, minerals and metals	kg Sb eq	8.87E-05	8.71E-05	0*	0*	5.28E-08	1.59E-06	-3.26E-04
Contribution to resource use, fossils	MJ	1.32E+02	5.76E+01	2.24E+00	1.18E+00	5.28E+01	1.82E+01	-2.65E+01
Contribution to water use	m3 eq	1.93E+00	1.47E+00	9.36E-03	4.85E-02	1.35E-01	2.66E-01	-9.15E-01

Inventory flows Indicators		CLIPSAL - 56 SERIES SURFACE SWITCH - 56SW320-GY						
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	5.75E+00	1.59E+00	0*	8.46E-02	3.99E+00	8.14E-02	1.77E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.23E+00	1.23E+00	0*	0*	0*	0*	-7.83E-01
Contribution to total use of renewable primary energy resources	MJ	6.98E+00	2.82E+00	0*	8.46E-02	3.99E+00	8.14E-02	-6.06E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.21E+02	4.62E+01	2.24E+00	1.18E+00	5.28E+01	1.82E+01	-2.65E+01

Contribution to use of non renewable primary energy resources used as raw material	MJ	1.15E+01	1.15E+01	0*	0*	0*	0*	-9.49E-03
Contribution to total use of non-renewable primary energy resources	MJ	1.32E+02	5.76E+01	2.24E+00	1.18E+00	5.28E+01	1.82E+01	-2.65E+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	m^3	4.48E-02	3.41E-02	2.18E-04	1.13E-03	3.15E-03	6.19E-03	-2.13E-02
Contribution to hazardous waste disposed	kg	7.44E+00	6.78E+00	0*	1.33E-03	8.72E-02	5.67E-01	-2.53E+01
Contribution to non hazardous waste disposed	kg	6.34E+00	4.47E+00	0*	3.67E-01	5.50E-01	9.46E-01	-1.87E+00
Contribution to radioactive waste disposed	kg	2.17E-03	1.86E-03	3.67E-05	4.93E-05	5.41E-05	1.71E-04	-4.02E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.61E-01	0*	0*	6.22E-02	0*	9.90E-02	0.00E+00
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 5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider electric.com/contact

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request.

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 :	ENVPEP120809EN_V1-EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
Validity period	5 years	*Supplemented by*	PSR-0005-ed2-2016 03 29
Date of issue	12/2023	*Information and reference documents*	www.pep-ecopassport.org

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 Julie ORGELET (DDemain)

PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019

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 »

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