

Product Environmental Profile

ICONIC FLUSH SWITCH VERTICAL MOUNT - 2GANG

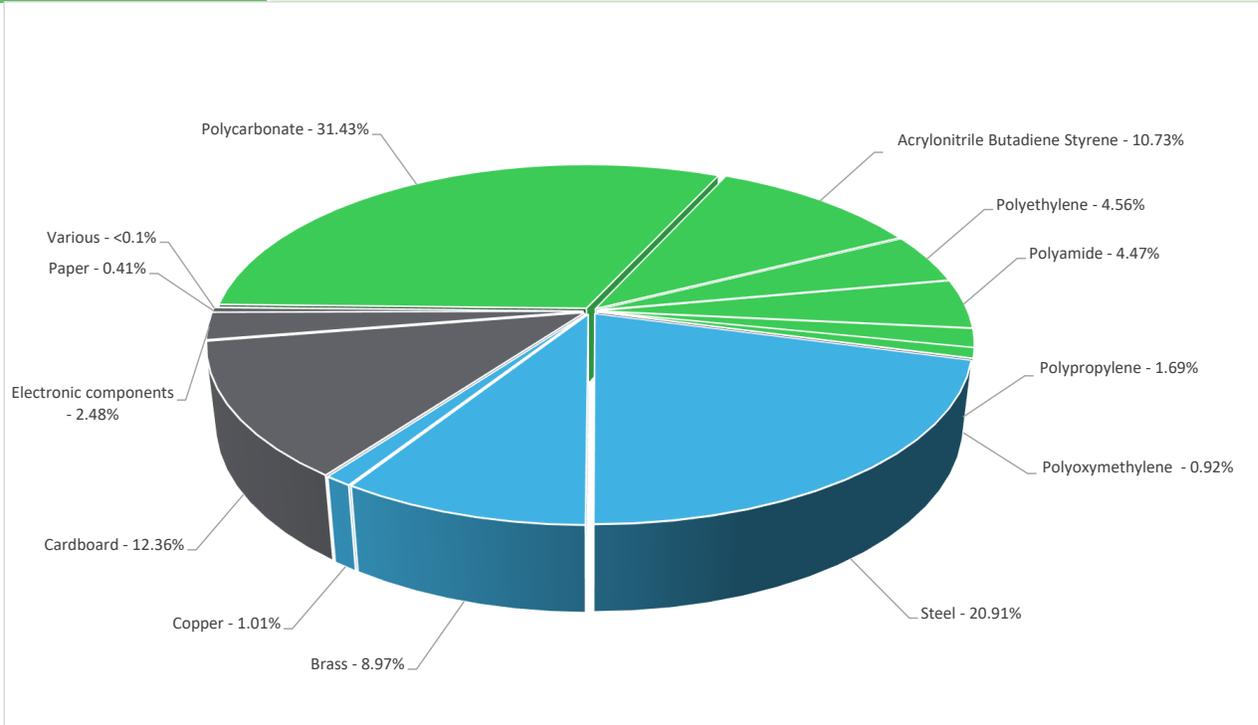


General information

Reference product	ICONIC FLUSH SWITCH VERTICAL MOUNT - 2GANG - 3042VAL-VW
Description of the product	The main purpose of the Iconic 2 gang 1/2 way switch vertical with an indicator lamp, rated at 10AX 250V AC product is to give a solution for the control of Electricity and Energy consumption Indicator light on switch rocker.
Functional unit	Establish, support, and interrupt the flow of current as well as connect or disconnect the plug of a load consuming [I] 10A maximum under a voltage of [U] 250V AC while protecting the user from direct contact with live parts in household or commercial areas, for the service life of the product 20 years in accordance with AS/NZs 60669.1:2020 standard and with IP2X in accordance with the standard IEC 60529.

Constituent materials

Reference product mass	125 g including the product, its packaging and additional elements and accessories
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Plastics	53.8%
Metals	30.9%
Others	15.3%

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:	36%	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'DEEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).
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Environmental impacts

Reference service life time	20 years		
Product category	Switches		
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	Load rate: 10% of I [6 A] Use time rate: 30% of RLT [20 years]		
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, New Zealand		
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Production mix; Low voltage; VN	Electricity Mix; Production mix; Low voltage; AUS	Electricity Mix; Production mix; Low voltage; AUS
		[C1 - C4]	Electricity Mix; Production mix; Low voltage; AUS
		Electricity mix; AC; consumption mix, at consumer; 230V; NZ	Electricity mix; AC; consumption mix, at consumer; 230V; NZ

Detailed results, including all the impact indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format.
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Mandatory Indicators		ICONIC FLUSH SWITCH VERTICAL MOUNT - 2GANG - 3042VAL-VW						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Loads and Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	
Contribution to climate change	kg CO2 eq	4.34E+00	8.47E-01	2.00E-02	3.03E-02	3.17E+00	2.68E-01	-1.85E-01
Contribution to climate change-fossil	kg CO2 eq	4.33E+00	8.37E-01	2.00E-02	2.90E-02	3.17E+00	2.68E-01	-1.83E-01
Contribution to climate change-biogenic	kg CO2 eq	1.28E-02	9.93E-03	0*	1.33E-03	1.21E-03	3.65E-04	-1.72E-03
Contribution to climate change-land use and land use change	kg CO2 eq	3.35E-08	0*	0*	2.92E-08	0*	4.26E-09	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	7.99E-08	5.78E-08	3.06E-11	2.14E-09	1.87E-08	1.24E-09	-3.39E-08
Contribution to acidification	mol H+ eq	2.67E-02	7.08E-03	1.33E-04	1.22E-04	1.89E-02	5.05E-04	-1.20E-03
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	1.43E-05	4.73E-06	7.48E-09	3.48E-07	3.15E-08	9.14E-06	-8.53E-07
Contribution to eutrophication marine	kg N eq	3.46E-03	1.07E-03	6.29E-05	3.25E-05	2.16E-03	1.26E-04	-1.18E-04
Contribution to eutrophication, terrestrial	mol N eq	3.75E-02	1.11E-02	6.90E-04	2.52E-04	2.44E-02	1.01E-03	-1.29E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.14E-02	3.42E-03	1.75E-04	6.79E-05	7.36E-03	3.28E-04	-4.75E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.43E-04	1.42E-04	0*	0*	7.24E-08	2.60E-07	-4.05E-05
Contribution to resource use, fossils	MJ	6.68E+01	1.52E+01	2.78E-01	3.06E-01	4.32E+01	7.85E+00	-3.64E+00
Contribution to water use	m3 eq	1.14E+00	2.26E-01	0*	2.02E-02	1.18E-01	7.78E-01	-9.86E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators		ICONIC FLUSH SWITCH VERTICAL MOUNT - 2GANG - 3042VAL-VW						
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Loads and Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.16E+01	2.30E-01	0*	2.79E-02	1.13E+01	1.02E-02	5.56E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	1.61E-01	1.61E-01	0*	0*	0*	0*	-1.47E-01
Contribution to total use of renewable primary energy resources	MJ	1.17E+01	3.90E-01	0*	2.79E-02	1.13E+01	1.02E-02	-9.10E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.45E+01	1.29E+01	2.78E-01	3.06E-01	4.32E+01	7.85E+00	-3.39E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.33E+00	2.33E+00	0*	0*	0*	0*	-2.49E-01
Contribution to total use of non-renewable primary energy resources	MJ	6.68E+01	1.52E+01	2.78E-01	3.06E-01	4.32E+01	7.85E+00	-3.64E+00
Contribution to use of secondary material	kg	8.62E-03	8.62E-03	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	2.87E-02	5.27E-03	0*	4.69E-04	2.74E-03	2.02E-02	-2.30E-03
Contribution to hazardous waste disposed	kg	3.42E+00	3.22E+00	0*	3.48E-04	7.55E-02	1.21E-01	-3.17E+00
Contribution to non hazardous waste disposed	kg	1.38E+00	7.71E-01	7.00E-04	9.55E-02	4.64E-01	5.17E-02	-3.11E-01
Contribution to radioactive waste disposed	kg	4.08E-04	3.48E-04	4.99E-07	1.31E-05	4.42E-05	2.39E-06	-5.61E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	5.90E-02	0*	0*	2.12E-02	0*	3.78E-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.

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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 :	ENVPEP1607003_V2	Drafting rules	PEP-PCR-ed4-2021 09 06
Validity period	5 years	Supplemented by	PSR-0005-ed3-EN-2023 06 06
Date of issue	03/2024	Information and reference documents	www.pep-ecopassport.org

Independent verification of the declaration and data, in compliance with ISO 14021 : 2016

Internal 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 »

Schneider Electric Industries SAS

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