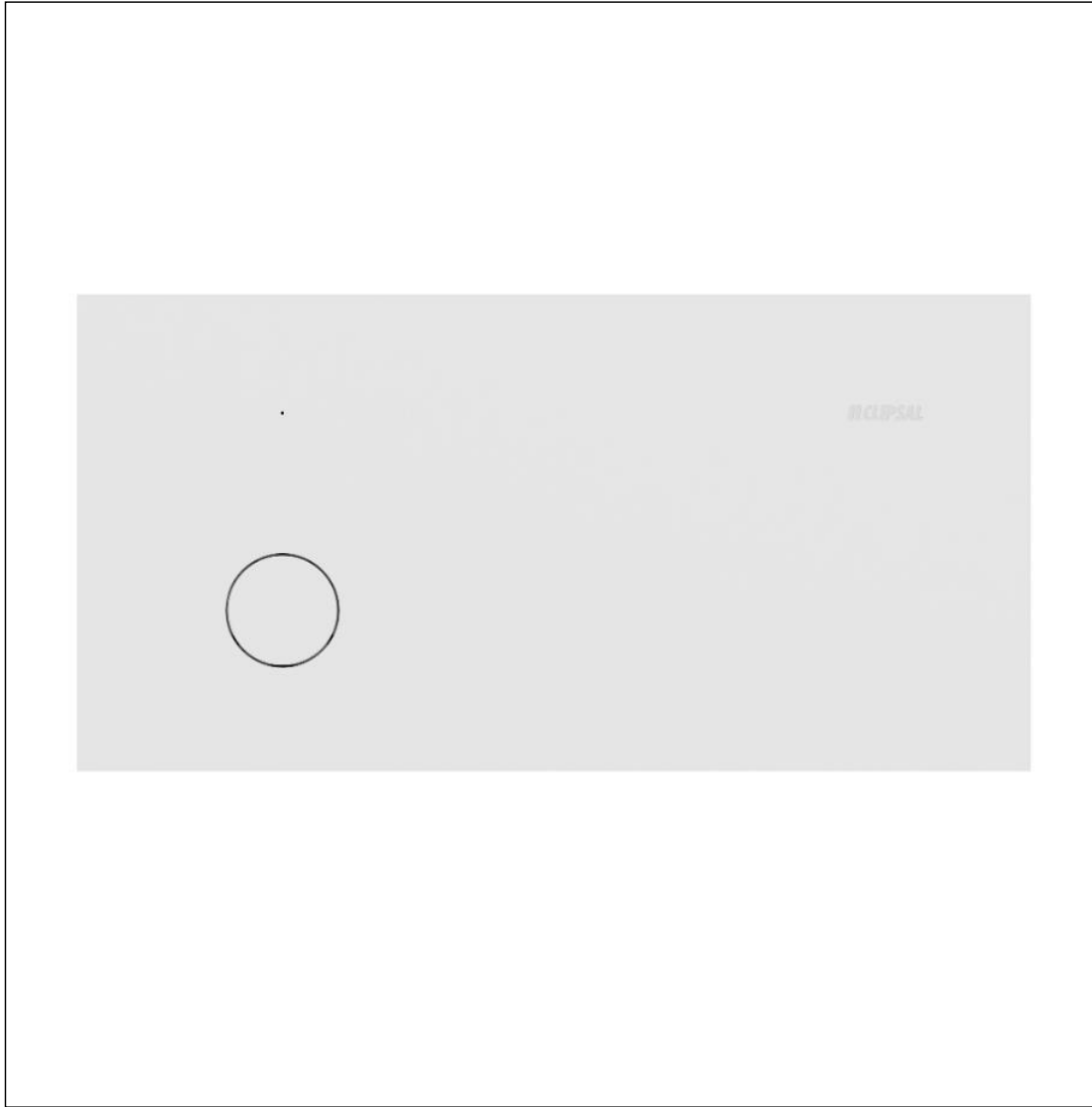


Product Environmental Profile

FLUSH SWITCH (PUSH BUTTON), HORIZONTAL MOUNT

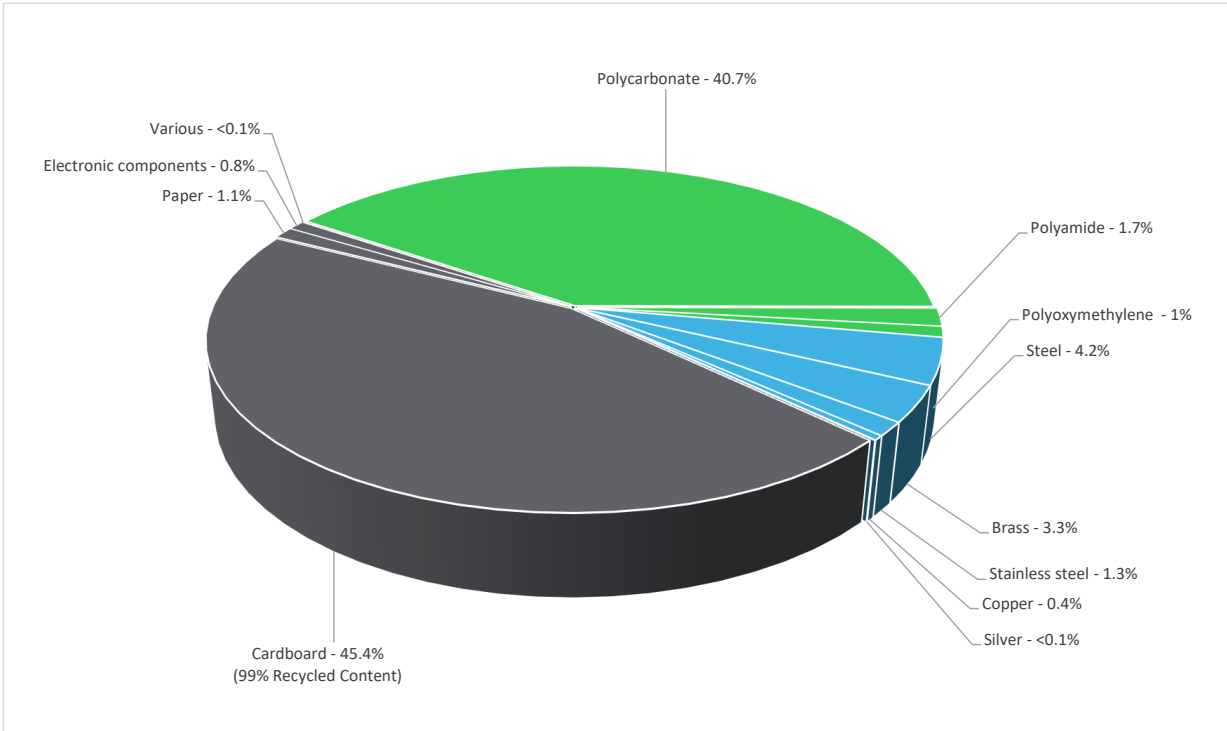


General information

Reference product	FLUSH SWITCH (PUSH BUTTON), HORIZONTAL MOUNT - 1041PA-ZW
Description of the product	The function of the switch is to make it easy to open or close the electrical circuit, turning the flow of electricity on or off.
Description of the range	Single product
Functional unit	Establish, support and interrupt the rated current (I) 16A and rated voltage (U) 240V, with IP2X Degree of protection against ingress of solid foreign objects and water with harmful effects in accordance with the standard IEC 60529 with the following dimension 148mm x 74mm x 46mm for a wall-mounted according to the appropriate use scenario for the reference service life time of 20 years

Constituent materials

Reference product mass	157 g	including the product, its packaging and additional elements and accessories
------------------------	-------	--



Others	47.4%
Plastics	43.2%
Metals	9.4%

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%	The recyclability rate was calculated from the recycling rates of each material making up the product with the exception of data using the ESR database. For materials or components using the ESR database or the absence of data the conservative hypothesis "0% recyclability" was used.
-------------	--------------------------	-----	---

Environmental impacts

Reference service life time	20 years			
Product category	Switches - Wall-mounted			
Installation elements	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal)			
Use scenario	Load rate = 10% In Use rate = 30% RLT			
Time representativeness	The collected data are representative of the year 2023			
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and representative of the actual type of technologies used to make the product.			
Geographical representativeness	Australia (AU) New-Zealand (NZ)			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; High voltage; 2018; Vietnam, VN	Electricity Mix; Low voltage; 2018; Australia, AU	Electricity Mix; Low voltage; 2018; Australia, AU	Electricity Mix; Low voltage; 2018; Australia, AU
		Electricity Mix; Low voltage; 2018; New-Zealand, NZ	Electricity Mix; Low voltage; 2018; New-Zealand, NZ	Electricity Mix; Low voltage; 2018; New-Zealand, NZ

Detailed results of 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>

Mandatory Indicators		FLUSH SWITCH (PUSH BUTTON), HORIZONTAL MOUNT - 1041PA-ZW						
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to climate change	kg CO2 eq	1.91E+00	7.13E-01	8.47E-01	2.86E-03	1.21E-01	2.25E-01	-4.86E-02
Contribution to climate change-fossil	kg CO2 eq	1.88E+00	6.89E-01	8.47E-01	2.86E-03	1.21E-01	2.23E-01	-4.73E-02
Contribution to climate change-biogenic	kg CO2 eq	2.65E-02	2.36E-02	0*	0*	6.97E-05	2.81E-03	-1.24E-03
Contribution to climate change-land use and land use change	kg CO2 eq	6.43E-05	6.43E-05	0*	0*	0*	2.98E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	8.43E-07	9.75E-08	7.44E-07	1.14E-10	5.70E-10	8.86E-10	-9.07E-09
Contribution to acidification	mol H+ eq	9.09E-03	4.43E-03	3.48E-03	3.85E-05	7.69E-04	3.69E-04	-1.20E-03
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	4.96E-05	1.06E-05	9.87E-08	1.42E-08	0*	3.89E-05	-7.04E-08
Contribution to eutrophication marine	kg N eq	2.54E-03	7.60E-04	1.58E-03	1.82E-05	8.57E-05	8.91E-05	-3.48E-05
Contribution to eutrophication, terrestrial	mol N eq	2.72E-02	7.76E-03	1.72E-02	1.85E-04	9.94E-04	1.06E-03	-4.07E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	8.70E-03	2.37E-03	5.72E-03	4.45E-05	2.86E-04	2.72E-04	-1.93E-04
Contribution to resource use, minerals and metals	kg Sb eq	5.19E-05	5.07E-05	0*	0*	0*	1.24E-06	-1.88E-05
Contribution to resource use, fossils	MJ	2.60E+01	1.13E+01	1.05E+01	3.28E-02	1.86E+00	2.30E+00	-1.01E+00
Contribution to water use	m3 eq	3.03E-01	1.90E-01	4.28E-02	6.77E-03	4.71E-03	5.95E-02	-6.15E-02

Inventory flows Indicators		FLUSH SWITCH (PUSH BUTTON), HORIZONTAL MOUNT - 1041PA-ZW						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.14E+00	7.05E-01	0*	0*	4.01E-01	3.15E-02	-3.12E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	4.50E-02	4.50E-02	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	1.18E+00	7.50E-01	0*	0*	4.01E-01	3.15E-02	-3.12E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.44E+01	9.68E+00	1.05E+01	3.28E-02	1.86E+00	2.30E+00	-1.01E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.63E+00	1.63E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2.60E+01	1.13E+01	1.05E+01	3.28E-02	1.86E+00	2.30E+00	-1.01E+00
Contribution to use of secondary material	kg	1.12E-01	1.12E-01	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	7.82E-03	5.17E-03	9.96E-04	1.58E-04	1.10E-04	1.38E-03	-1.43E-03
Contribution to hazardous waste disposed	kg	1.62E+00	1.62E+00	6.98E-04	0*	2.97E-03	5.71E-04	-1.59E+00
Contribution to non hazardous waste disposed	kg	1.17E+00	9.95E-01	8.58E-04	7.41E-02	1.96E-02	7.66E-02	-2.90E-02
Contribution to radioactive waste disposed	kg	5.38E-04	3.65E-04	1.68E-04	6.00E-08	2.14E-06	2.98E-06	-1.36E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.88E-02	2.27E-03	0*	0*	0*	1.65E-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	1.72E-04	2.50E-05	0*	0*	0*	1.47E-04	0.00E+00

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

Contribution to biogenic carbon content of the product	kg de C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	2.08E-02

Mandatory Indicators		FLUSH SWITCH (PUSH BUTTON), HORIZONTAL MOUNT - 1041PA-ZW							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.21E-01	0*	0*	0*	0*	0*	1.21E-01	0*
Contribution to climate change-fossil	kg CO2 eq	1.21E-01	0*	0*	0*	0*	0*	1.21E-01	0*
Contribution to climate change-biogenic	kg CO2 eq	6.97E-05	0*	0*	0*	0*	0*	6.97E-05	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	5.70E-10	0*	0*	0*	0*	0*	5.70E-10	0*
Contribution to acidification	mol H+ eq	7.69E-04	0*	0*	0*	0*	0*	7.69E-04	0*
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication marine	kg N eq	8.57E-05	0*	0*	0*	0*	0*	8.57E-05	0*
Contribution to eutrophication, terrestrial	mol N eq	9.94E-04	0*	0*	0*	0*	0*	9.94E-04	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.86E-04	0*	0*	0*	0*	0*	2.86E-04	0*
Contribution to resource use, minerals and metals	kg Sb eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, fossils	MJ	1.86E+00	0*	0*	0*	0*	0*	1.86E+00	0*
Contribution to water use	m3 eq	4.71E-03	0*	0*	0*	0*	0*	4.71E-03	0*

Inventory flows Indicators		FLUSH SWITCH (PUSH BUTTON), HORIZONTAL MOUNT - 1041PA-ZW							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.01E-01	0*	0*	0*	0*	0*	4.01E-01	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	4.01E-01	0*	0*	0*	0*	0*	4.01E-01	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.86E+00	0*	0*	0*	0*	0*	1.86E+00	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	1.86E+00	0*	0*	0*	0*	0*	1.86E+00	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	1.10E-04	0*	0*	0*	0*	0*	1.10E-04	0*
Contribution to hazardous waste disposed	kg	2.97E-03	0*	0*	0*	0*	0*	2.97E-03	0*
Contribution to non hazardous waste disposed	kg	1.96E-02	0*	0*	0*	0*	0*	1.96E-02	0*
Contribution to radioactive waste disposed	kg	2.14E-06	0*	0*	0*	0*	0*	2.14E-06	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

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

Life cycle assessment performed with EIME version v6.2, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

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 :	ENVPEP2406024_V1	Drafting rules	PCR-4-ed4-EN-2021 09 06
Validity period	5 years	Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	08-2024	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)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"			

Schneider Electric Industries SAS
 Country Customer Care Center
<http://www.se.com/contact>
 35, rue Joseph Monier
 CS 30323
 F- 92500 Rueil Malmaison Cedex
 RCS Nanterre 954 503 439
 Capital social 928 298 512 €

www.se.com

ENVPEP2406024_V1

Published by Schneider Electric

©2024 - Schneider Electric – All rights reserved

08-2024