

Product Environmental Profile

MUREVA - 2way Switch-screwless-10A-Surface mounted

as referent product for :
all Switches in Mureva range





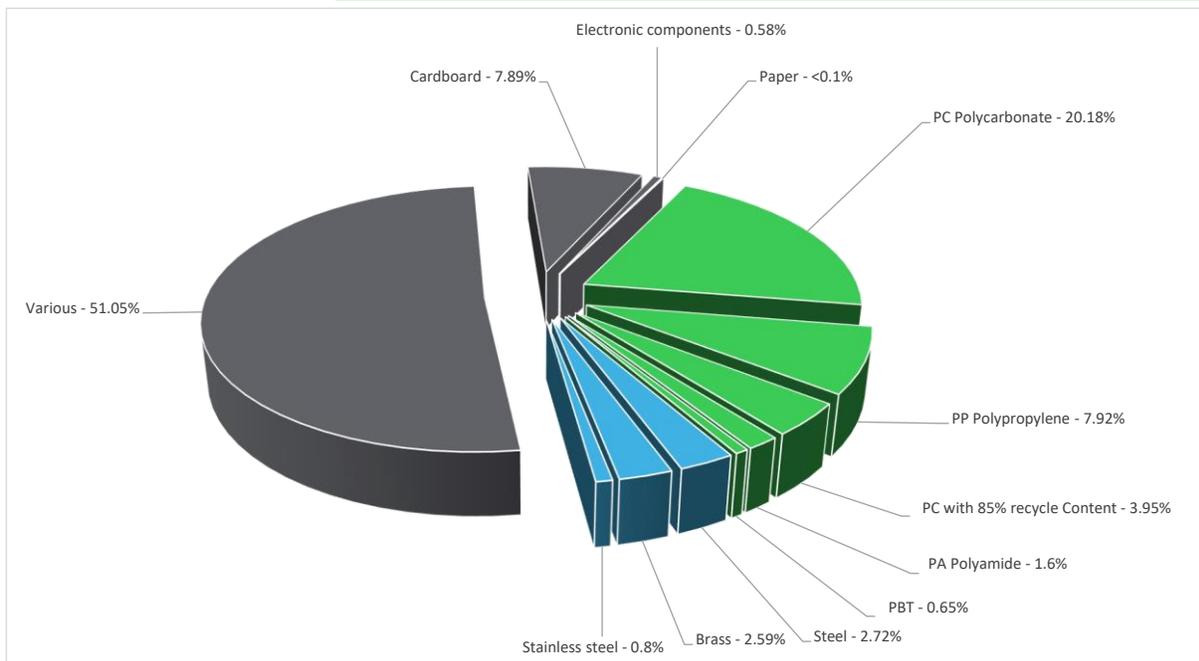
General information

Reference product	MUREVA - 2way Switch-screwless-10A-Surface mounted - MUR35021
Description of the product	The main purpose of the Mureva 2 way switch product is to give a solution for the control of electrical networks (e.g : lighting / roller blinds / ...)
Description of the range	The indicator values of this MUREVA 2 way switch can be extrapolated , based on the Mass and Energy values of the products, to all other MUREVA switches, with or without linked accessories, for surface or flush-mounted variants, and for all finishing types and colors. 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 10A, including any conditions specified for overload in operation characterized by the current Ie - 10A, for the operating voltage Ue - 250V for a specified time with IP55 protection in accordance with the standard IEC 60529 and IK08 protection in accordance with the standard IEC 62262.



Constituent materials

Reference product mass 120 g including the product, its packaging and additional elements and accessories



Others	59.6%
Plastics	34.3%
Metals	6.1%



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:	7%	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).
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Environmental impacts

Reference service life time	20 years			
Product category	Switches			
Installation elements	The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).			
Use scenario	The product is in active mode 30% of the time with a power use of 0.0875W and in off mode 70% of the time with a power use of 0 W, for 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	France			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; PL	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; FR

Mandatory Indicators		MUREVA - 2way Switch-screwless-10A-Surface mounted - MUR35021						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	9.79E-01	4.96E-01	2.69E-02	1.74E-02	3.07E-01	1.31E-01	6.91E-04
Contribution to climate change-fossil	kg CO2 eq	9.68E-01	4.87E-01	2.69E-02	1.67E-02	3.06E-01	1.31E-01	-2.89E-04
Contribution to climate change-biogenic	kg CO2 eq	1.07E-02	9.04E-03	0*	7.75E-04	7.92E-04	6.63E-05	9.80E-04
Contribution to climate change-land use and land use change	kg CO2 eq	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.50E-08	2.41E-08	1.41E-08	1.15E-09	4.52E-09	1.14E-09	-9.74E-09
Contribution to acidification	mol H+ eq	4.97E-03	2.81E-03	1.39E-04	6.92E-05	1.78E-03	1.78E-04	-1.23E-04
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	1.59E-05	1.15E-06	5.95E-09	1.26E-07	1.46E-05	2.95E-08	4.84E-07
Contribution to eutrophication marine	kg N eq	8.98E-04	5.11E-04	6.46E-05	1.83E-05	2.45E-04	5.98E-05	1.21E-05
Contribution to eutrophication, terrestrial	mol N eq	1.04E-02	5.56E-03	7.04E-04	1.38E-04	3.52E-03	4.28E-04	5.41E-05
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.96E-03	1.87E-03	2.04E-04	3.69E-05	7.25E-04	1.24E-04	1.09E-05
Contribution to resource use, minerals and metals	kg Sb eq	1.87E-05	1.86E-05	0*	0*	1.45E-07	0*	-1.24E-05
Contribution to resource use, fossils	MJ	7.12E+01	1.00E+01	3.46E-01	1.82E-01	5.90E+01	1.69E+00	2.17E-01
Contribution to water use	m3 eq	5.58E-01	7.66E-02	8.52E-04	7.45E-03	2.23E-02	4.51E-01	-1.00E-03

Inventory flows Indicators		MUREVA - 2way Switch-screwless-10A-Surface mounted - MUR35021						
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	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	5.73E+00	2.57E-01	0*	1.30E-02	5.46E+00	2.55E-03	-9.31E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	1.48E-03	1.48E-03	0*	0*	0*	0*	1.54E-01
Contribution to total use of renewable primary energy resources	MJ	5.73E+00	2.58E-01	0*	1.30E-02	5.46E+00	2.55E-03	6.07E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.69E+01	5.63E+00	3.46E-01	1.82E-01	5.90E+01	1.69E+00	-2.58E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	4.37E+00	4.37E+00	0*	0*	0*	0*	4.75E-01
Contribution to total use of non-renewable primary energy resources	MJ	7.12E+01	1.00E+01	3.46E-01	1.82E-01	5.90E+01	1.69E+00	2.17E-01
Contribution to use of secondary material	kg	1.57E-02	1.57E-02	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	1.42E-02	1.78E-03	1.98E-05	1.73E-04	5.18E-04	1.17E-02	-2.34E-05
Contribution to hazardous waste disposed	kg	7.19E-01	5.31E-01	0*	2.06E-04	4.58E-03	1.82E-01	-9.55E-01
Contribution to non hazardous waste disposed	kg	5.88E-01	4.67E-01	3.98E-04	5.67E-02	2.95E-02	3.40E-02	2.11E-01
Contribution to radioactive waste disposed	kg	3.16E-04	2.91E-04	3.45E-06	7.62E-06	1.24E-05	1.88E-06	8.56E-06
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.68E-02	0*	0*	9.58E-03	0*	7.22E-03	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, 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>

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

The manufacturing phase is the life cycle phase, which has the major impact on environmental indicators.

For Resource use, minerals and metals(ADPe) indicator, the main contribution is a Connector in an Electronic component with an impact of 61% in the manufacturing phase.

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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Date of issue	08/2023	Information and reference documents	www.pep-ecopassport.org
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal External X			
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDEMAIN)			
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 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			



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