

Product Environmental Profile

Simple Socket RXZE1-Mixed Contact

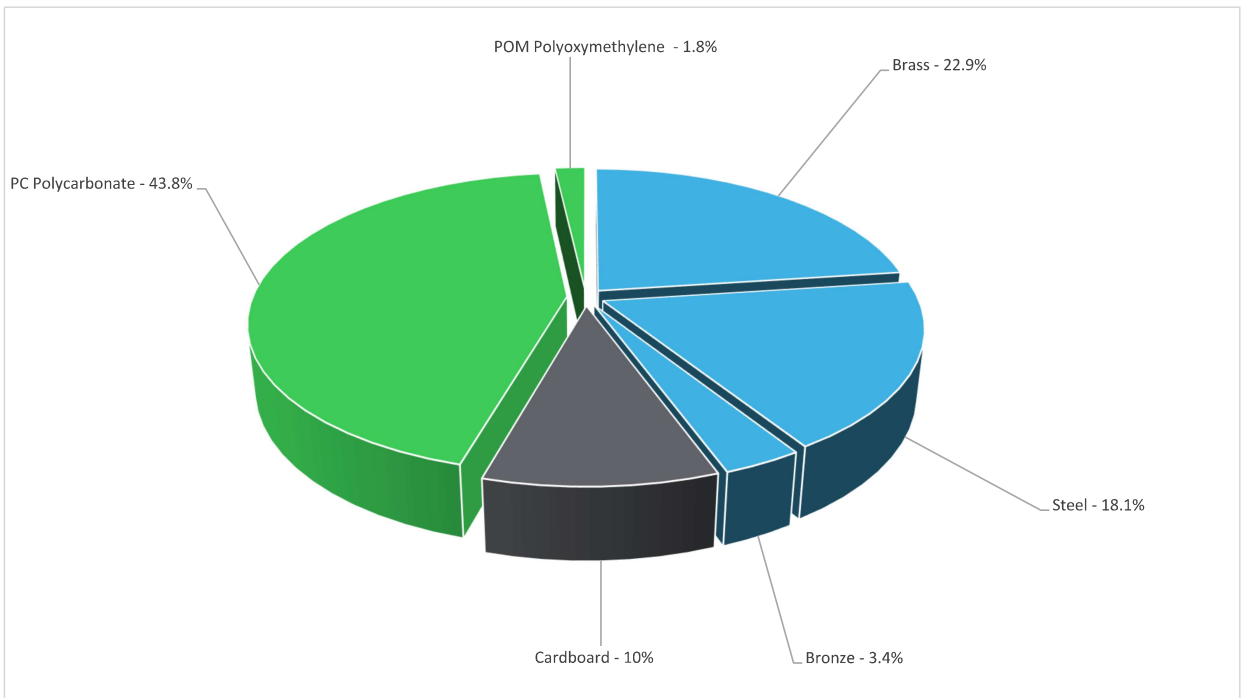


General information

Representative product	Simple Socket RXZE1-Mixed Contact - RXZE1M4C
Description of the product	The product is a socket that accept relay, electromechanical switch in which the variation of current in one electric circuit controls the flow of electricity in another circuit.
Functional unit	To allow users to connect and disconnect the plug of an electrical load or the source of a signal from a network; in which the variation of current in one electric circuit controls the flow of electricity in another circuit during 20 years with UL standards E70550.

Constituent materials

Reference product mass	56.6 g including the product, its packaging and additional elements and accessories
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Plastics	45.60%
Metals	44.40%
Others	10.00%

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:	48%	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	Unequipped enclosures and cabinets			
Installation elements	Does not require any special componnets for installation			
Use scenario	Non applicable for unequipped enclosures and cabinets			
Geographical representativeness	China, US, Europe, Russia			
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
		Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US
		Electricity Mix; Production mix; Low voltage; EU-27	Electricity Mix; Production mix; Low voltage; EU-27	Electricity Mix; Production mix; Low voltage; EU-27
		Electricity Mix; Production mix; Low voltage; RU	Electricity Mix; Production mix; Low voltage; RU	Electricity Mix; Production mix; Low voltage; RU

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>

Mandatory Indicators			Simple Socket RXZE1-Mixed Contact - RXZE1M4C					
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	7.38E-01	5.50E-01	2.73E-02	6.71E-03	0*	1.53E-01	-4.96E-01
Contribution to climate change-fossil	kg CO2 eq	7.34E-01	5.47E-01	2.73E-02	6.71E-03	0*	1.53E-01	-4.96E-01
Contribution to climate change-biogenic	kg CO2 eq	3.28E-03	3.28E-03	0*	0*	0*	0*	0.00E+00
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	1.13E-07	9.23E-08	2.00E-08	1.34E-11	0*	4.33E-10	0.00E+00
Contribution to acidification	mol H+ eq	4.80E-03	4.40E-03	1.30E-04	4.61E-06	0*	2.67E-04	-1.66E-03
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	3.74E-06	3.61E-06	4.40E-09	1.16E-07	0*	1.30E-08	-8.43E-08
Contribution to eutrophication marine	kg N eq	5.92E-04	4.79E-04	5.99E-05	2.55E-06	0*	5.03E-05	-2.80E-04
Contribution to eutrophication, terrestrial	mol N eq	6.51E-03	5.26E-03	6.51E-04	1.92E-05	0*	5.72E-04	-3.06E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.19E-03	1.79E-03	2.02E-04	6.51E-06	0*	1.94E-04	-1.16E-03
Contribution to resource use, minerals and metals	kg Sb eq	2.98E-05	2.98E-05	0*	0*	0*	0*	-1.93E-08
Contribution to resource use, fossils	MJ	1.24E+01	6.78E+00	3.40E-01	7.26E-03	0*	5.28E+00	-3.80E+01
Contribution to water use	m3 eq	7.72E-01	7.36E-01	1.16E-03	0*	0*	3.43E-02	-1.97E-01

Additional indicators for the French regulation are available as well

Inventory flows Indicators		Simple Socket RXZE1-Mixed Contact - RXZE1M4C						
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	9.99E-02	9.91E-02	8.86E-05	1.87E-04	0*	4.77E-04	0.00E+00
Contribution to use of renewable primary energy resources used as raw material	MJ	1.13E-01	1.13E-01	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	2.13E-01	2.12E-01	8.86E-05	1.87E-04	0*	4.77E-04	0.00E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.15E+01	5.91E+00	3.40E-01	7.26E-03	0*	5.28E+00	-3.80E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	8.73E-01	8.73E-01	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.24E+01	6.78E+00	3.40E-01	7.26E-03	0*	5.28E+00	-3.80E+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	1.79E-02	1.71E-02	2.60E-05	0*	0*	7.95E-04	-4.58E-03
Contribution to hazardous waste disposed	kg	2.36E+00	2.31E+00	0*	0*	0*	5.30E-02	0.00E+00
Contribution to non hazardous waste disposed	kg	9.43E-02	6.04E-02	1.87E-04	6.36E-03	0*	2.73E-02	0.00E+00
Contribution to radioactive waste disposed	kg	4.60E-05	3.99E-05	4.61E-06	2.18E-07	0*	1.22E-06	0.00E+00
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.49E-02	0*	0*	0*	0*	2.49E-02	-1.82E-01
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	3.26E-03	0*	0*	3.26E-03	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>

The manufacturing phase has the greatest impacts and contribution on environmental indicators like Climate change-Biogenic (GWPb), Climate change-Fossil, Eutrophication, freshwater(Epf) and Resource use, minerals and metals (ADPe),Ozone depletion (PEF-ODP),Photochemical ozone formation - human health(PEF-POCP)

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 :	ENVPEP1511020_V2-EN	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	www.pep-ecopassport.org
		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 €