Product Environmental Profile

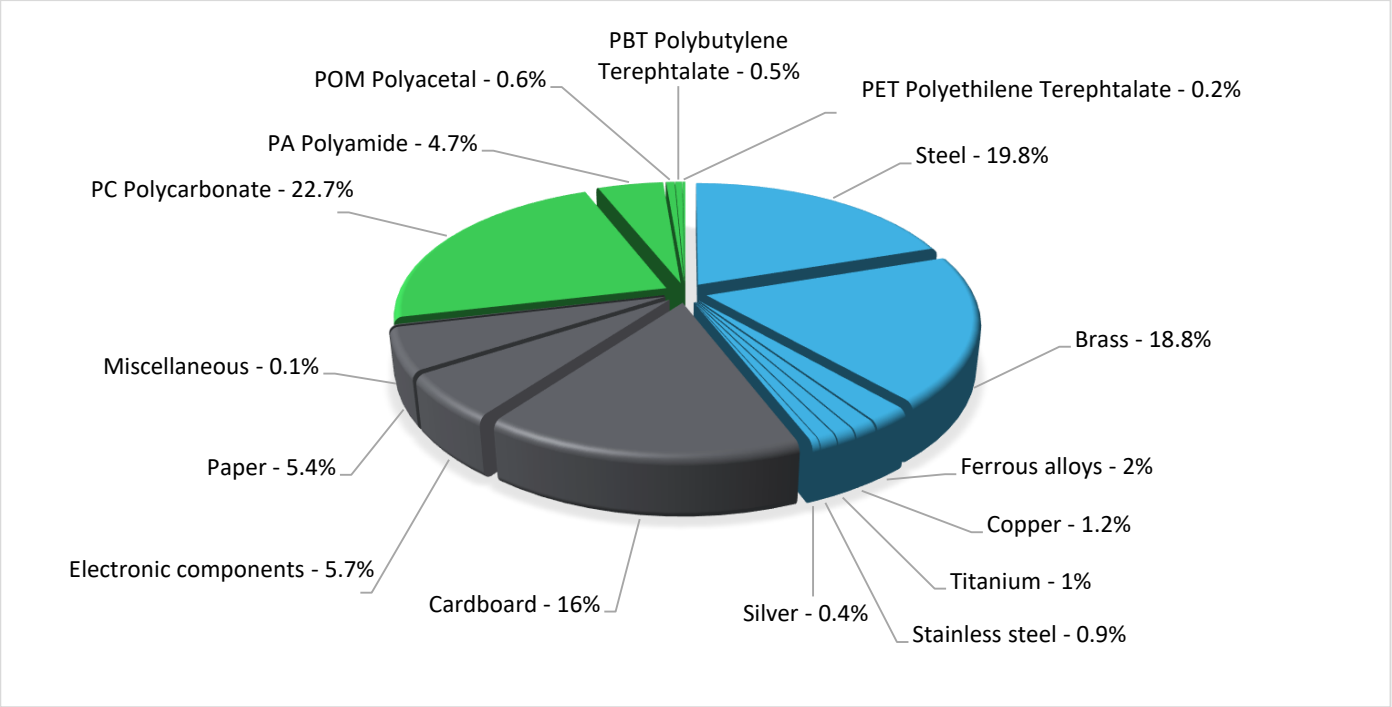
TR GFCI 15A RECEPTACLE RESI

General information

Representative product	TR GFCI 15A RECEPTACLE RESI - SQR51101WH
Description of the product	A GFCI receptacle is different from conventional receptacles. In the event of a ground fault, a GFCI will trip and quickly stop the flow of electricity to prevent serious injury.
Functional unit	This product main is provide ability to connect/disconnect, during 20 years, the plug of a load consuming 15A under a voltage of 125AC, while protecting the user from direct contact with live parts, and providing ground fault interuption capability.

Constituent materials

Reference product mass	166 g	including the product, its packaging and additional elements and accessories



	Plastics	28.7%
	Metals	44.1%
	Others	27.2%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

Additional environmental information

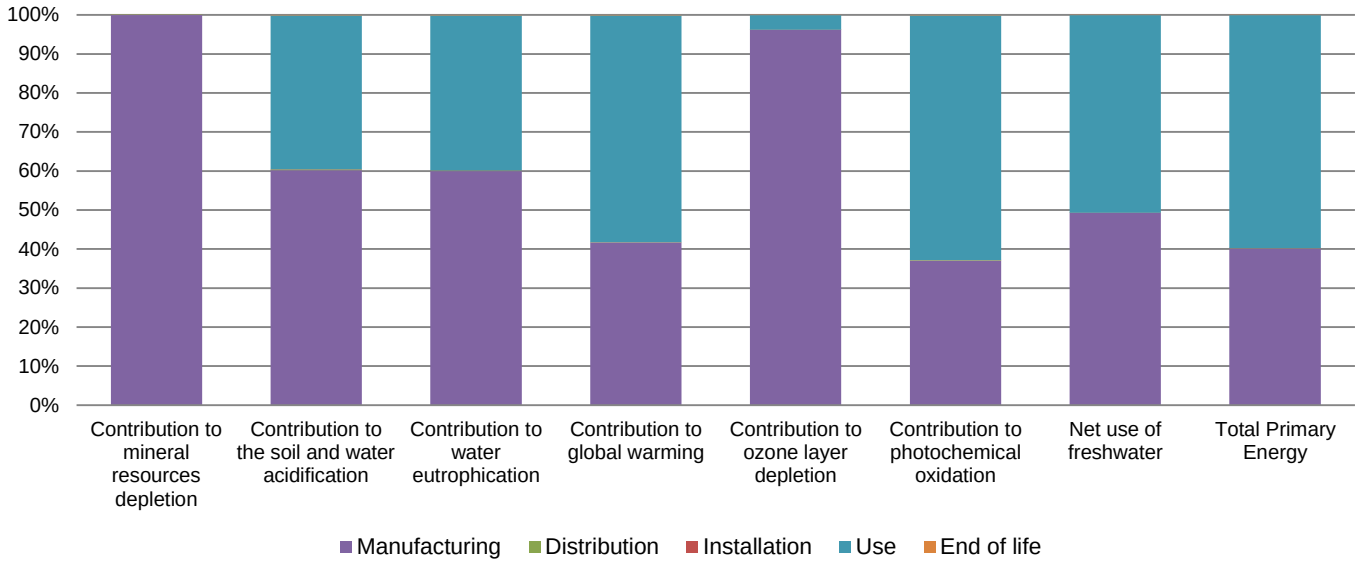
The TR GFCI 15A RECEPTACLE RESI presents the following relevent environmental aspects	
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 35.8 g, consisting of cardboard (75.10%), PET film (23.39%), paper (1.51%)
Installation	Reference SQR51101WH does not require any installation operations.
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains electronic card (11.2g) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: **47%** Based on “ECO’DEEE recyclability and recoverability calculation method” (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental impacts

Reference life time	20 years (Product lifetime is 6 years, based on PSR0005, consider 3.33 products.)
Product category	Other equipments - Passive product - non-continuous operation
Installation elements	No special components needed
Use scenario	The product is in a stand-by mode 100% of the time with a power use of 0.48W, for 6 years.
Geographical representativeness	US
Technological representativeness	A GFCI receptacle is different from conventional receptacles. In the event of a ground fault, a GFCI will trip and quickly stop the flow of electricity to prevent serious injury.

Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US

Compulsory indicators	**TR GFCI 15A RECEPTACLE RESI - SQR51101WH**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.84E-03	2.84E-03	0*	0*	5.15E-07	0*
Contribution to the soil and water acidification	kg SO_2 eq	1.27E-01	7.65E-02	2.93E-04	2.43E-05	5.02E-02	1.34E-04
Contribution to water eutrophication	kg PO_4^{3-} eq	3.33E-02	2.00E-02	6.76E-05	6.06E-06	1.32E-02	4.48E-05
Contribution to global warming	kg CO_2 eq	9.01E+01	3.75E+01	6.43E-02	0*	5.24E+01	1.06E-01
Contribution to ozone layer depletion	kg CFC11 eq	2.49E-05	2.40E-05	0*	0*	9.50E-07	4.20E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	1.28E-02	4.74E-03	2.09E-05	1.82E-06	8.04E-03	1.32E-05
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.83E-01	9.02E-02	0*	0*	9.26E-02	7.24E-05
Total Primary Energy	MJ	1.18E+03	4.75E+02	9.08E-01	0*	7.05E+02	6.30E-01



Optional indicators		TR GFCI 15A RECEPTACLE RESI - SQR51101WH					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.09E+03	4.50E+02	9.03E-01	0*	6.38E+02	5.09E-01
Contribution to air pollution	m³	7.01E+03	2.55E+03	2.73E+00	0*	4.45E+03	4.55E+00
Contribution to water pollution	m³	8.48E+03	5.88E+03	1.06E+01	8.83E-01	2.58E+03	6.52E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	9.22E-02	9.22E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	4.42E+01	1.87E+00	0*	0*	4.24E+01	0*
Total use of non-renewable primary energy resources	MJ	1.14E+03	4.73E+02	9.07E-01	0*	6.63E+02	6.29E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.35E+01	1.16E+00	0*	0*	4.24E+01	0*
Use of renewable primary energy resources used as raw material	MJ	7.05E-01	7.05E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.13E+03	4.68E+02	9.07E-01	0*	6.63E+02	6.29E-01
Use of non renewable primary energy resources used as raw material	MJ	5.01E+00	5.01E+00	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	2.64E+01	2.43E+01	0*	0*	1.40E+00	6.42E-01
Non hazardous waste disposed	kg	1.04E+01	2.39E+00	2.28E-03	1.21E-03	8.01E+00	1.87E-03
Radioactive waste disposed	kg	8.59E-03	7.76E-03	1.63E-06	0*	8.24E-04	3.33E-06
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.37E-01	4.66E-02	0*	1.06E-01	0*	1.84E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.17E-02	0*	0*	0*	0*	2.17E-02
Exported Energy	MJ	3.38E-04	3.18E-05	0*	3.06E-04	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The Manufacturing phase has the greatest impact on Abiotic depletion, Acidification potential and Eutrophication. The Use phase has the greatest impact on Global warming, high Nox and Total Primary Energy. And the Use phase also impacting rest of the Indicators.

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	ENVPEP2005012_V1	*Drafting rules*	PCR-ed3-EN-2015 04 02
Date of issue	08/2020	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	*Information and reference documents*	www.pep-ecopassport.org

Independent verification of the declaration and data

Internal X External

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 - Self-declared environmental claims (Type II environmental labelling) »

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