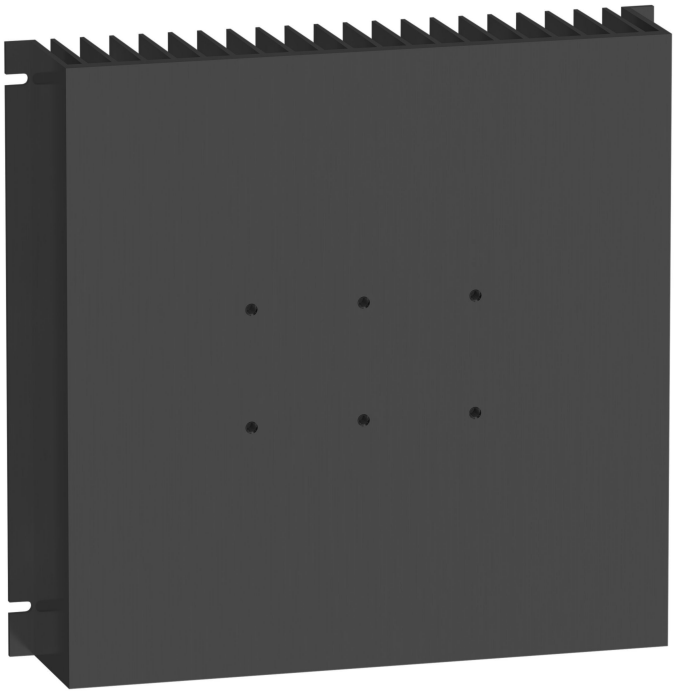
Product Environmental Profile

SSRH●●● Heatsink, Panel Mount-SSR series

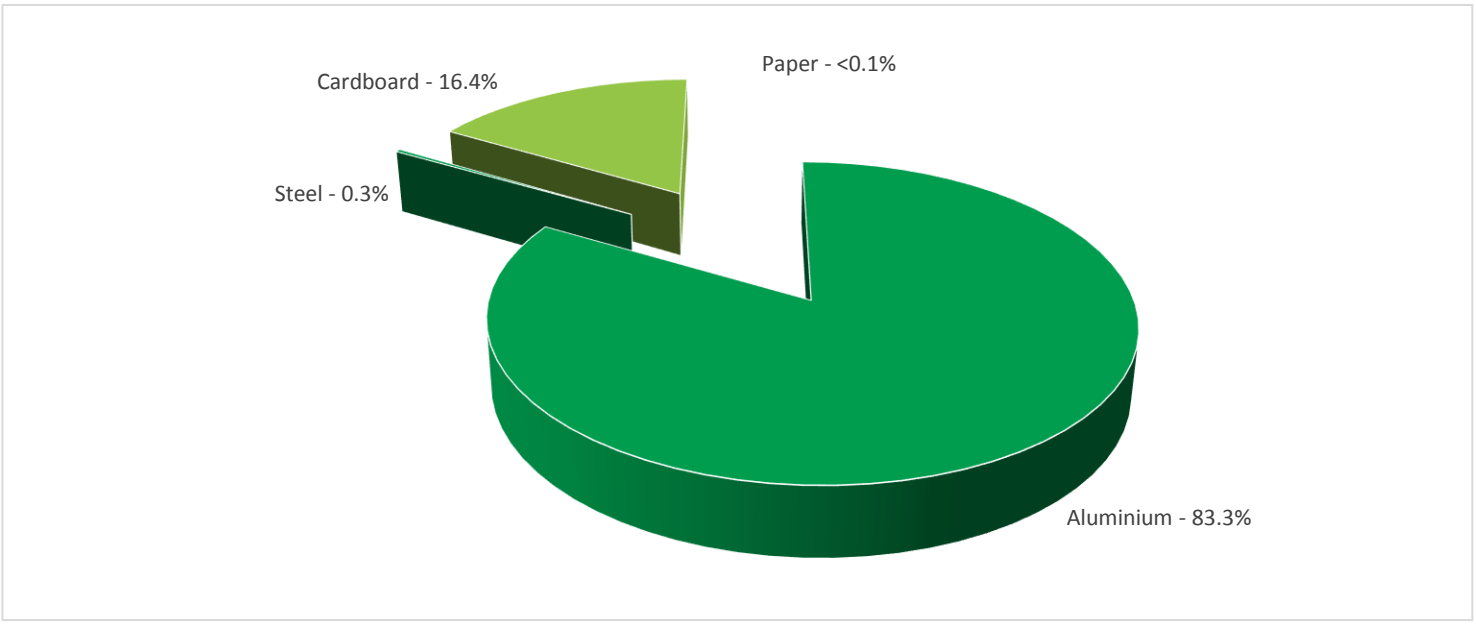


General information

Representative product	Heatsink, Panel Mount-SSR series -SSRHP02
Description of the product	The product is a passive heat radiator that transfers the heat generated by the Solid State Relay away from the source, thereby allowing regulation of the relay temperature at the optimal levels to improve product performance.
Description of the range	The range consists of heatsink for SSR series designed with panel mounting and holes for direct mounting and provided with different sizes to cater for different number of SSR relay mounting. The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	To provide effective heat dissipation for Solid State Relay through convection in order to keep it working at its optimum operating temperature. during 20 years with a 30% use rate, in compliance with French standards.

Constituent materials

Reference product mass	3048.3 g	including the product, its packaging and additional elements and accessories



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

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

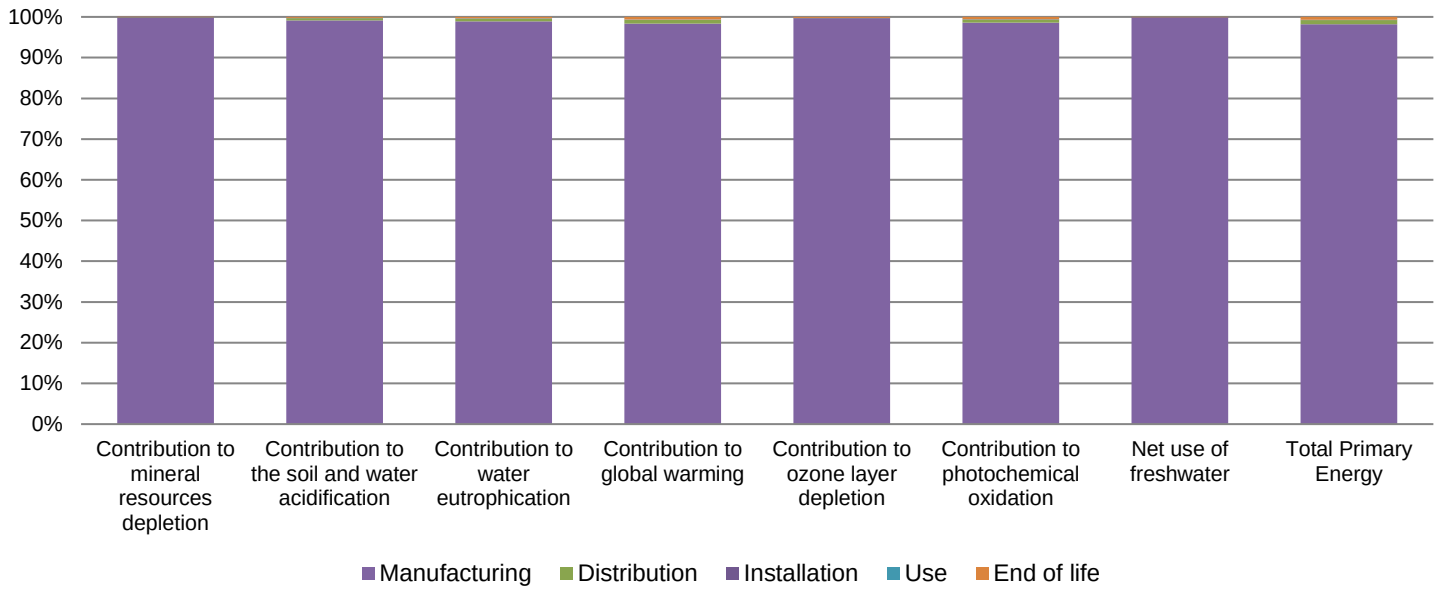
Additional environmental information

The Heatsink, Panel Mount-SSR series 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 499 g, consisting of cardboard (99.96%), Paper (0.04%) Product distribution optimised by setting up local distribution centres
Installation	Ref SSRHP02 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 No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process. Recyclability potential: **70%** 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 category	Enclosures			
Installation elements	No special components needed			
Use scenario	This product does not have any energy consumption			
Geographical representativeness	World			
Technological representativeness	The product is a passive heat radiator that transfers the heat generated by the Solid State Relay away from the source, thereby allowing regulation of the relay temperature at the optimal levels to improve product performance.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: Mexico	0	0	0

Compulsory indicators	**Heatsink, Panel Mount-SSR series - SSRHP02**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.65E-05	1.65E-05	1.57E-08	0*	0*	7.56E-09
Contribution to the soil and water acidification	kg SO_2 eq	3.07E-01	3.04E-01	1.80E-03	1.50E-04	0*	7.40E-04
Contribution to water eutrophication	kg PO_4^{3-} eq	5.75E-02	5.69E-02	4.14E-04	3.54E-05	0*	1.74E-04
Contribution to global warming	kg CO_2 eq	4.08E+01	4.01E+01	3.93E-01	4.78E-02	0*	2.39E-01
Contribution to ozone layer depletion	kg CFC11 eq	7.20E-06	7.18E-06	7.97E-10	3.93E-09	0*	1.64E-08
Contribution to photochemical oxidation	kg C_2H_4 eq	1.56E-02	1.54E-02	1.28E-04	1.57E-05	0*	7.95E-05
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3.64E-01	3.64E-01	0*	5.84E-05	0*	2.92E-04
Total Primary Energy	MJ	5.57E+02	5.47E+02	5.56E+00	7.40E-01	0*	3.71E+00



Optional indicators	Heatsink, Panel Mount-SSR series - SSRHP02						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	4.44E+02	4.35E+02	5.53E+00	6.75E-01	0*	3.38E+00
Contribution to air pollution	m³	3.67E+03	3.62E+03	1.67E+01	5.28E+00	0*	2.63E+01
Contribution to water pollution	m³	4.86E+03	4.76E+03	6.47E+01	5.65E+00	0*	2.81E+01
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	0.00E+00	0*	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.59E+01	3.59E+01	7.41E-03	0*	0*	4.14E-03
Total use of non-renewable primary energy resources	MJ	5.21E+02	5.11E+02	5.55E+00	7.39E-01	0*	3.71E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.57E+01	2.57E+01	7.41E-03	0*	0*	4.14E-03
Use of renewable primary energy resources used as raw material	MJ	1.03E+01	1.03E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.21E+02	5.11E+02	5.55E+00	7.39E-01	0*	3.71E+00
Use of non renewable primary energy resources used as raw material	MJ	3.20E-03	3.20E-03	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	9.32E+00	4.99E+00	0*	1.00E+00	0*	3.32E+00
Non hazardous waste disposed	kg	2.39E+02	2.39E+02	0*	0*	0*	0*
Radioactive waste disposed	kg	6.75E-02	6.74E-02	9.95E-06	0*	0*	1.78E-05
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.04E+00	2.59E-01	0*	0*	0*	1.78E+00
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*
Exported Energy	MJ	0.00E+00	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 EIME v5.6, database version 2017-03.

The manufacturing phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

Depending on the impact analysis, the environmental indicators of other products in this family may be proportional extrapolated by the mass of the product.

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	05/2017	*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, in compliance with ISO 14025 : 2010

Internal X External

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 »

Schneider Electric Industries SAS

Country Customer Care Center
http://www.schneider-electric.com/contact

35, rue Joseph Monier

CS 30323

F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 896 313 776 €