Product Environmental Profile

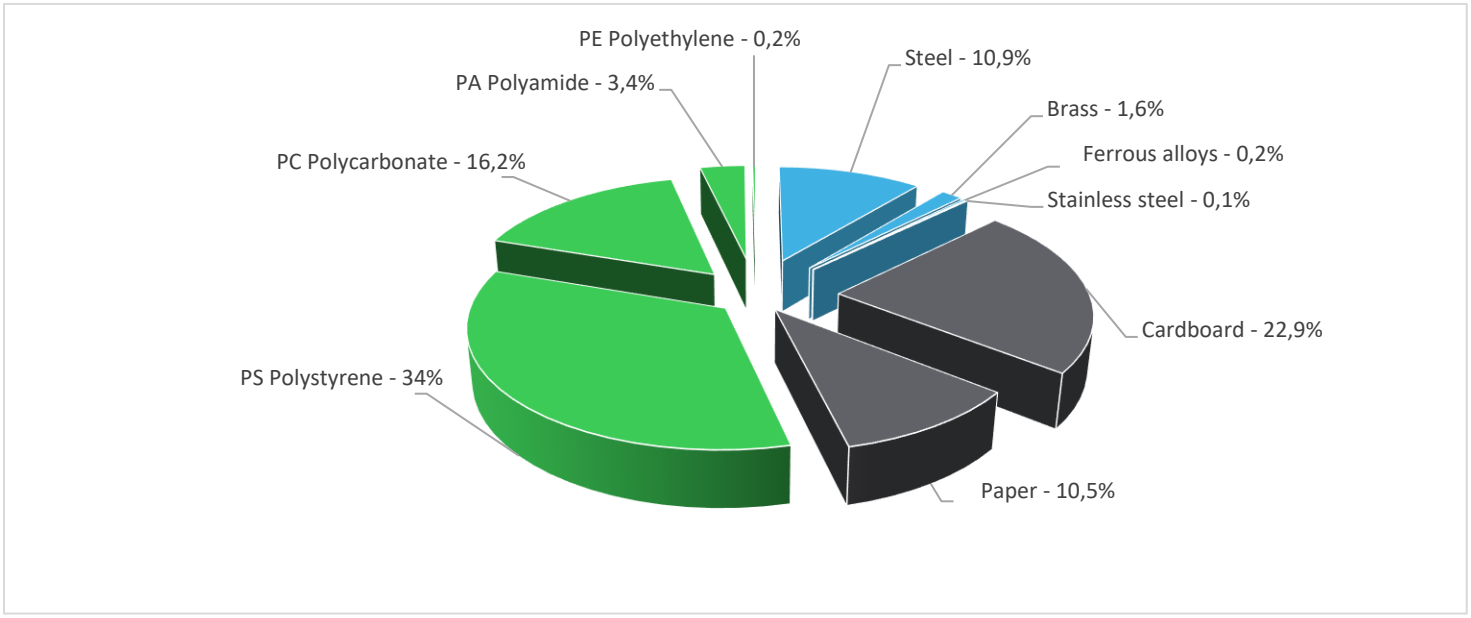
Resi9 - Surface mounted enclosure - 2 rows - 13 modules

General information

Representative product	R9H13402 (enclosure 2 rows 13 modules) + R9H13422 (plain door) + R9H13992 (insulating plate)
Description of the product	Resi9 wall-mounted enclosures allow installation and protection of electrical devices while ensuring protection and safety of persons, they are intended for residential sector.
Description of the range	The range consists of surface-mounted electric modular enclosure of 13 (1-row 13-modules) to 72 (4-rows 18-modules) modules from 63A to 90A 20/400Vac. All enclosures can be equipped with white plain or transparent door. 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	Protect persons during 20 years against direct contact with live parts and allow grouping monitoring, control and protection devices in a single enclosure or a cabinet having the following dimensions 375 x 252 x 108mm, while protecting against mechanical impacts (IK) and the penetration of solid objects and liquids (IP).

Constituent materials

Reference product mass	2960 g	including the product, its packaging and additional elements and accessories



Plastics	53,8%
Metals	12,8%
Others	33,4%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the 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

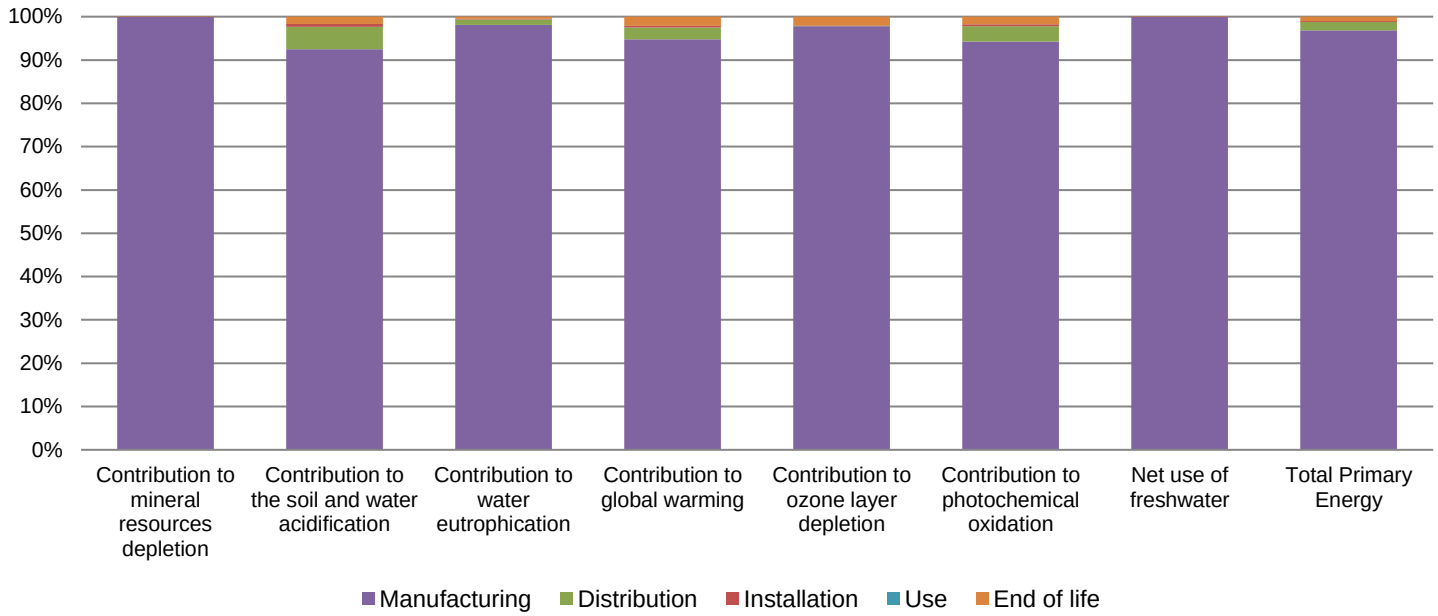
Additional environmental information

The Resi9 surface mounted enclosure R9H13402+R9H13422+R9H13992 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 975,2 g, consisting of Cardboard (68,6%), Paper (31,4%) Packaging recycled materials is 70% of total packaging mass. Product distribution optimised by setting up local distribution centres
Installation	References R9H13402 - R9H13422 - R9H13992 do not require any special installation operations. The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).
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 a plastic part with brominated flame retardant (7,1g) that should be separated from the stream of waste so as to optimize end-of-life treatment. Recyclability potential: **61%** 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	Unequipped enclosures and cabinets			
Installation elements	No special components needed			
Use scenario	Non applicable for unequipped enclosures and cabinets			
Geographical representativeness	Europe			
Technological representativeness	Resi9 wall-mounted enclosures allow installation and protection of electrical devices while ensuring protection and safety of persons, they are intended for residential sector.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Italy - Electricity mix; AC; consumption mix, at consumer; 230V; IT	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators	**Resi9 surface mounted enclosure : R9H13402+R9H13422+R9H13992**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4,83E-04	4,83E-04	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO_2 eq	3,39E-02	3,14E-02	1,75E-03	2,21E-04	0*	5,79E-04
Contribution to water eutrophication	kg PO_4^{3-} eq	3,27E-02	3,21E-02	4,03E-04	5,52E-05	0*	1,59E-04
Contribution to global warming	kg CO_2 eq	1,40E+01	1,32E+01	3,83E-01	5,30E-02	0*	2,93E-01
Contribution to ozone layer depletion	kg CFC11 eq	6,21E-07	6,08E-07	7,76E-10	1,24E-10	0*	1,28E-08
Contribution to photochemical oxidation	kg C_2H_4 eq	3,52E-03	3,32E-03	1,25E-04	1,65E-05	0*	6,07E-05
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	4,82E+00	4,82E+00	0*	0*	0*	0*
Total Primary Energy	MJ	2,82E+02	2,73E+02	5,42E+00	6,92E-01	0*	2,83E+00



Optional indicators		Resi9 surface mounted enclosure : R9H13402+R9H13422+R9H13992					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2,20E+02	2,12E+02	5,38E+00	6,86E-01	0*	2,27E+00
Contribution to air pollution	m³	1,43E+03	1,39E+03	1,63E+01	2,15E+00	0*	2,04E+01
Contribution to water pollution	m³	2,26E+03	2,16E+03	6,30E+01	8,03E+00	0*	2,42E+01
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	9,50E-01	9,50E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,55E+01	1,55E+01	7,22E-03	0*	0*	3,14E-03
Total use of non-renewable primary energy resources	MJ	2,66E+02	2,57E+02	5,41E+00	6,90E-01	0*	2,82E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,35E+01	1,35E+01	7,22E-03	0*	0*	3,14E-03
Use of renewable primary energy resources used as raw material	MJ	1,98E+00	1,98E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,01E+02	1,92E+02	5,41E+00	6,90E-01	0*	2,82E+00
Use of non renewable primary energy resources used as raw material	MJ	6,55E+01	6,55E+01	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	4,05E+01	3,78E+01	0*	0*	0*	2,68E+00
Non hazardous waste disposed	kg	1,50E+01	1,50E+01	1,36E-02	1,15E-02	0*	8,68E-03
Radioactive waste disposed	kg	5,79E-03	5,76E-03	9,70E-06	1,55E-06	0*	1,36E-05
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2,44E+00	2,89E-01	0*	9,67E-01	0*	1,19E+00
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	3,69E-02	0*	0*	0*	0*	3,69E-02
Exported Energy	MJ	3,06E-03	2,84E-04	0*	2,78E-03	0*	0*

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

Life cycle assessment performed with EIME version 5.9.3, database version 2020-11 in compliance with ISO14044.

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.

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply may be provided on request

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 :	SCHN-00069-V02.01-EN	*Drafting rules*	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH39	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Date of issue	08/2022	*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 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 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »

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