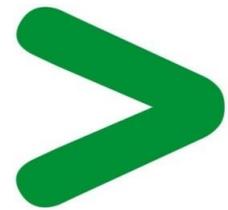


Product Environmental Profile

Prisma L Wall mounted switchboard 400A





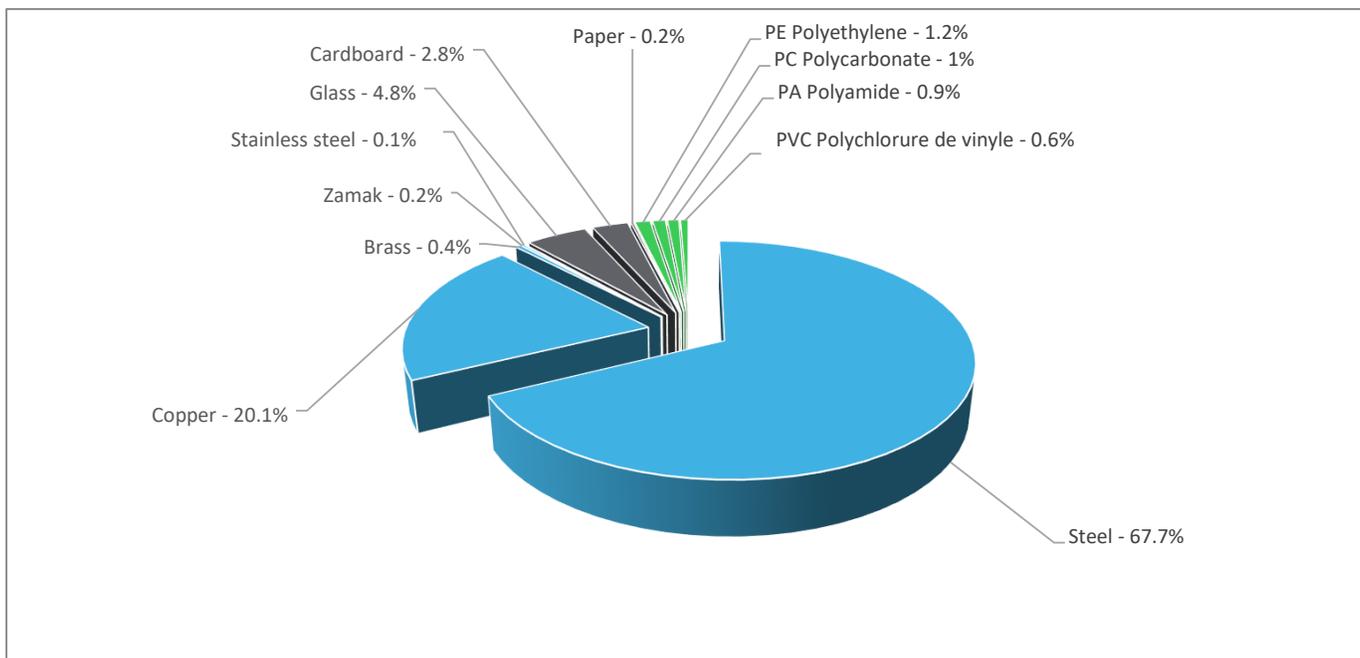
General information

Representative product	Prisma L Wall mounted switchboard 400A - The product used for the analysis is the typical Prisma L Wall mounted switchboard 400A product, which is comprised of the following commercial references: LSL58632A, LSL58532A, LSL58170T, LSL58547A, LSL58274A, LSL58296A, LSX58904H, LSX58931A, LSX58932A, LSX58934A, LSX58964T, LSX58884A, LSX58913V, LSX58070A, LSX58082A, LSX58053A, 04173, 04195, 04239, 04243, 04197
Description of the product	<p>The main function of Prisma L Wall mounted switchboards 400A is:</p> <ul style="list-style-type: none"> • Mounting plates and front plates • Distribution blocks, busbars, etc • Other switchboards on site, connections, terminal blocks, cable tie supports, etc <p>The product used for the analysis is a Prisma L 400A switchboard, a few items that can be attached include :</p> <ul style="list-style-type: none"> - For Incoming : - 400A vertical circuit breakers (typically Compact NSX) - For Outgoing : - 100A horizontal circuit breakers (typically Compact NSX) - modular circuit breakers (typically 1 row of C60 devices) - GV2P32+P25(25A) LC1-D18
Functional unit	<p>The combined functions of this product are :</p> <ul style="list-style-type: none"> - 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 300 x 600 x 235 (mm), while protecting against mechanical impacts (IK=30) and the penetration of solid objects and liquids (IP=07). - The distributing electricity is up to 630W and for 8000V, within the enclosure.



Constituent materials

Reference product mass 147520 g including the product, its packaging and additional elements and accessories



	Plastics	3.7%
	Metals	88.5%
	Others	7.8%

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

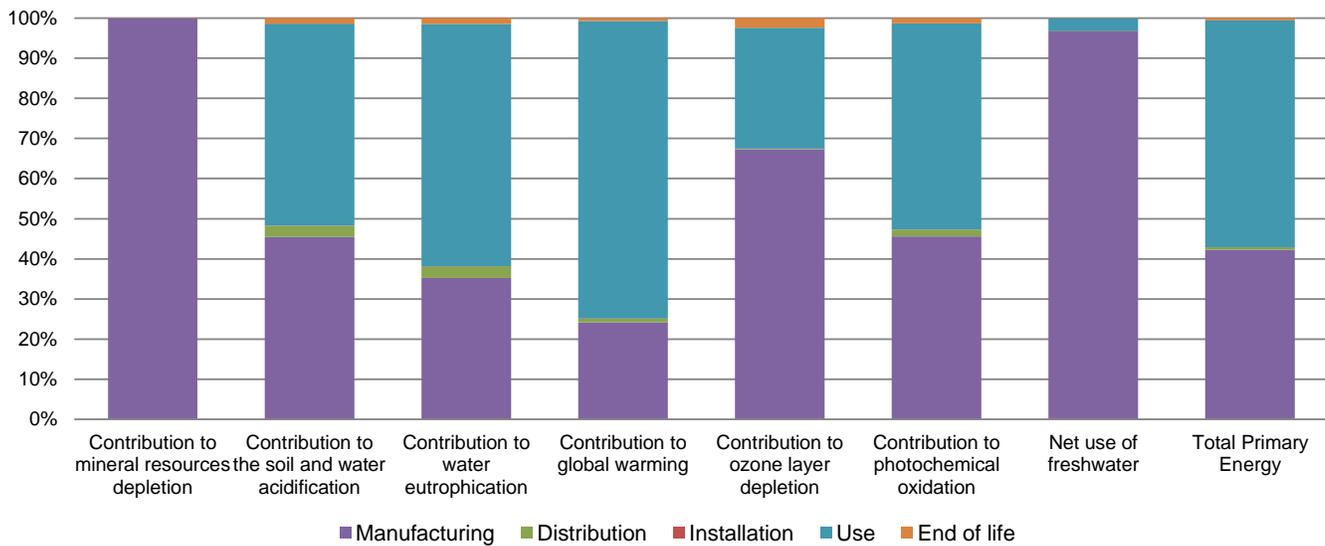
The Prisma L Wall mounted switchboard 400A presents the following relevant environmental aspects

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 6237.6 g, consisting of Carboard (74%), paper (5%), PE film (21%) Packaging recycled materials is 82% of total packaging mass. Product distribution optimised by setting up local distribution centres
Installation	No Special components included
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: 84% 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	Other equipments - Passive product - continuous operation			
Installation elements	The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).			
Use scenario	load rate / rated current (In): 30 % of 400 Amps percentage of utilization time: 100%			
Geographical representativeness	China			
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.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN

Compulsory indicators		Prisma L Wall mounted switchboard 400A					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.43E-02	4.43E-02	0*	0*	6.37E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	3.12E+00	1.42E+00	8.69E-02	1.41E-03	1.57E+00	4.23E-02
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	6.88E-01	2.42E-01	2.00E-02	3.40E-04	4.15E-01	1.01E-02
Contribution to global warming	kg CO ₂ eq	1.96E+03	4.73E+02	1.90E+01	3.31E-01	1.45E+03	1.42E+01
Contribution to ozone layer depletion	kg CFC11 eq	3.83E-05	2.58E-05	3.86E-08	0*	1.16E-05	9.00E-07
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	3.61E-01	1.65E-01	6.20E-03	1.04E-04	1.86E-01	4.56E-03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	5.12E+01	4.95E+01	0*	0*	1.62E+00	1.69E-02
Total Primary Energy	MJ	4.33E+04	1.83E+04	2.69E+02	4.42E+00	2.45E+04	2.35E+02



Optional indicators		Prisma L Wall mounted switchboard 400A					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.85E+04	5.30E+03	2.67E+02	4.39E+00	2.27E+04	1.93E+02
Contribution to air pollution	m ³	3.65E+05	2.12E+05	8.10E+02	0*	1.51E+05	1.50E+03
Contribution to water pollution	m ³	1.03E+05	2.60E+04	3.13E+03	5.12E+01	7.22E+04	1.62E+03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	5.15E+01	5.15E+01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.45E+03	2.29E+02	3.59E-01	0*	1.22E+03	2.38E-01
Total use of non-renewable primary energy resources	MJ	4.19E+04	1.81E+04	2.69E+02	4.42E+00	2.33E+04	2.35E+02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.43E+03	2.12E+02	3.59E-01	0*	1.22E+03	2.38E-01
Use of renewable primary energy resources used as raw material	MJ	1.67E+01	1.67E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.17E+04	1.79E+04	2.69E+02	4.42E+00	2.33E+04	2.35E+02
Use of non renewable primary energy resources used as raw material	MJ	2.13E+02	2.13E+02	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	4.19E+03	3.98E+03	0*	0*	4.68E+01	1.70E+02
Non hazardous waste disposed	kg	4.01E+02	1.37E+02	6.76E-01	4.47E-02	2.63E+02	6.54E-01
Radioactive waste disposed	kg	8.34E-02	7.32E-02	4.82E-04	8.97E-06	8.67E-03	1.01E-03

Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.42E+02	1.43E+01	0*	4.52E+00	0*	1.23E+02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.93E-01	0*	0*	0*	0*	1.93E-01
Exported Energy	MJ	1.44E-02	1.36E-03	0*	1.30E-02	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 2018-11 in compliance with ISO14044.

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

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Verifier accreditation N°	VH25	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Date of issue	08/2020	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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