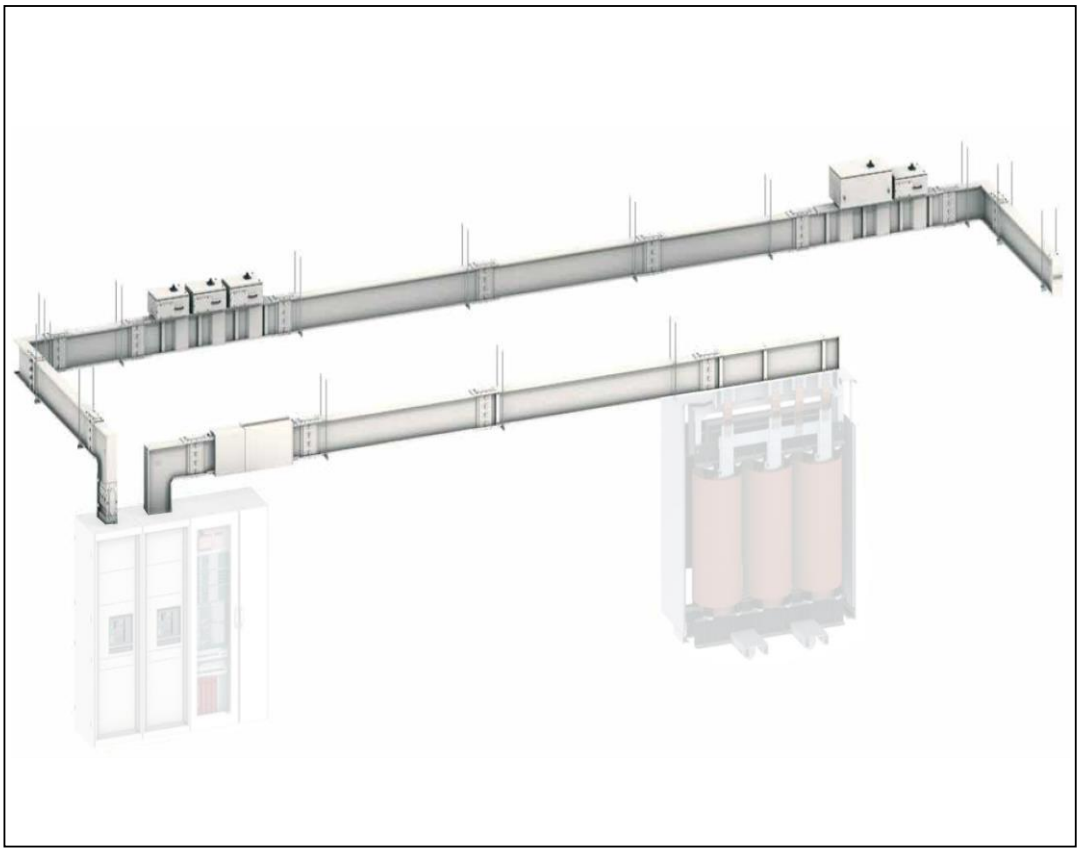
Product Environmental Profile

Canalis KTA 800 to 5000A

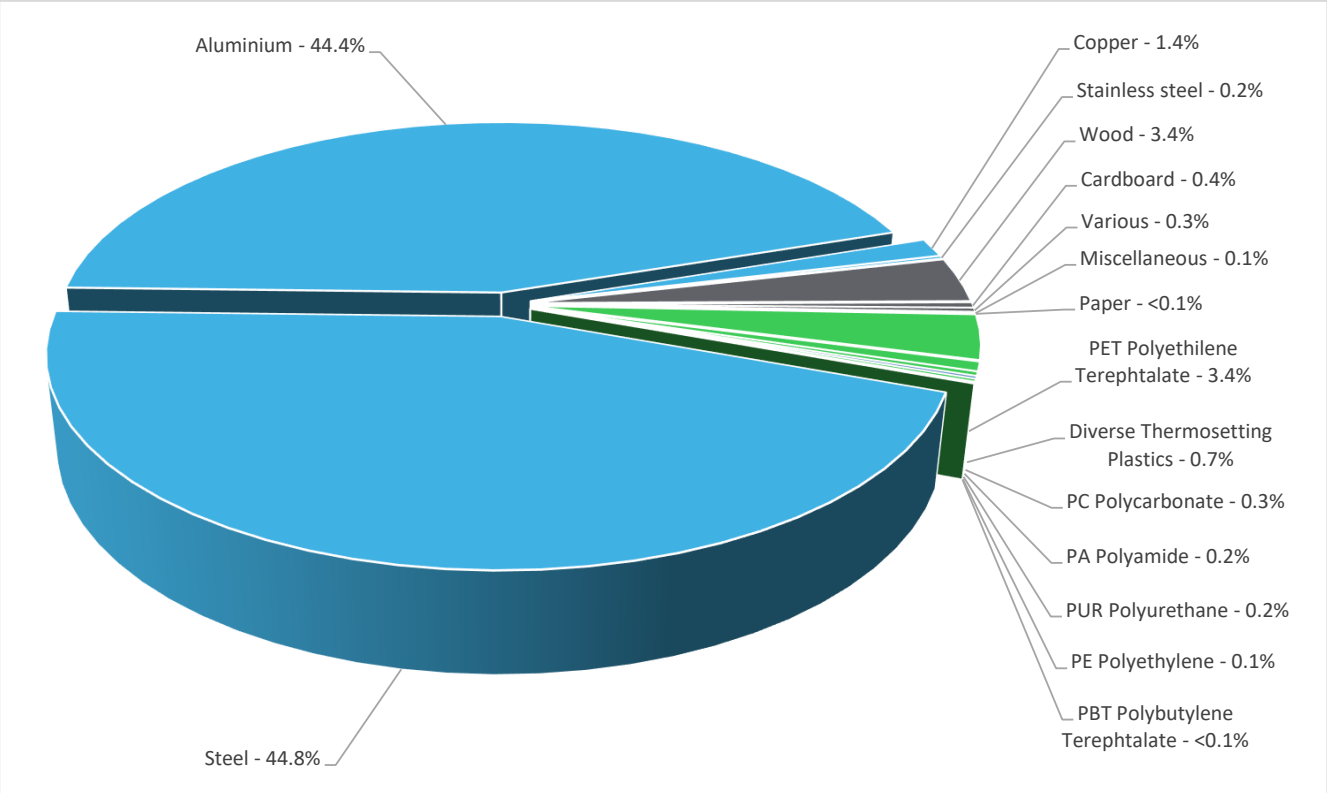


General information

Representative product	Canalis KTA 2500 A, which consists of the following Configuration: ● 2 x 2500 A Power Feed Boxes (cat. no. KTA2500ER41) ● 8 x 4 m Transport Components (cat. no. KTA2500ET440) ● 8 x 4 m Distribution Components (cat. no. KTA2500ED4403) ● 2 Components in each for changing Direction (cat. no. KTA2500LP4A1 - KTA2500LP4B2 - KTA2500LC4A - KTA2500LC4B) ● 1 Component in each for changing Direction (cat. no. KTA2500TC4 - KTA2500ZP4 - KTA2500ZC41) ● 5 Tap OFF Units in each (cat. no. KSB400DC4 - KSB160DC4 - KSB160SF4 - KSB400SE4)
Description of the product	● Canalis is part of a comprehensive offering of Schneider Electric products designed to operate together. This concept covers all low and medium voltage electrical distribution components. ● The result is an optimised electrical installation with even higher performance through full electrical, mechanical and communication compatibility. ● With the Canalis, we get a complete type tested distribution solution that complies with IEC61439-6. ● It is perfectly suited to traditional applications (factories, warehouses, etc.) and to the distribution of electrical power from transformer to all types of loads in offices, commercial premises, laboratories, etc.
Conclution on Product image	Switchboard and Transformer which are shaded in the product picture are just to show how the system connections works. These are not included in the configuration. Only the non-shaded portion in the image of a busbar trunking system with a specific configuration used for the analysis.
Functional unit	The main purpose of the Canalis KTA 2500A configuration is to transport and distribute electrical energy for high power applications for 20 years with following technical characteristics, ● Tap-off units rated current: 25 to 1250A ● Number of active conductors: 3L+PE, 3L+N+PE, 3L+N+PER (PER= reinforced PE) ● Protection index: IP55D, IK08, sprinkler resistant ● Length of busbar trunking sections: 4m ● Regulations: compliant with IEC 61439-1 & 6

Constituent materials

Reference product mass	3096 kg	including the product, its packaging and additional elements and accessories



Plastics	4.9%
Metals	90.8%
Others	4.2%

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

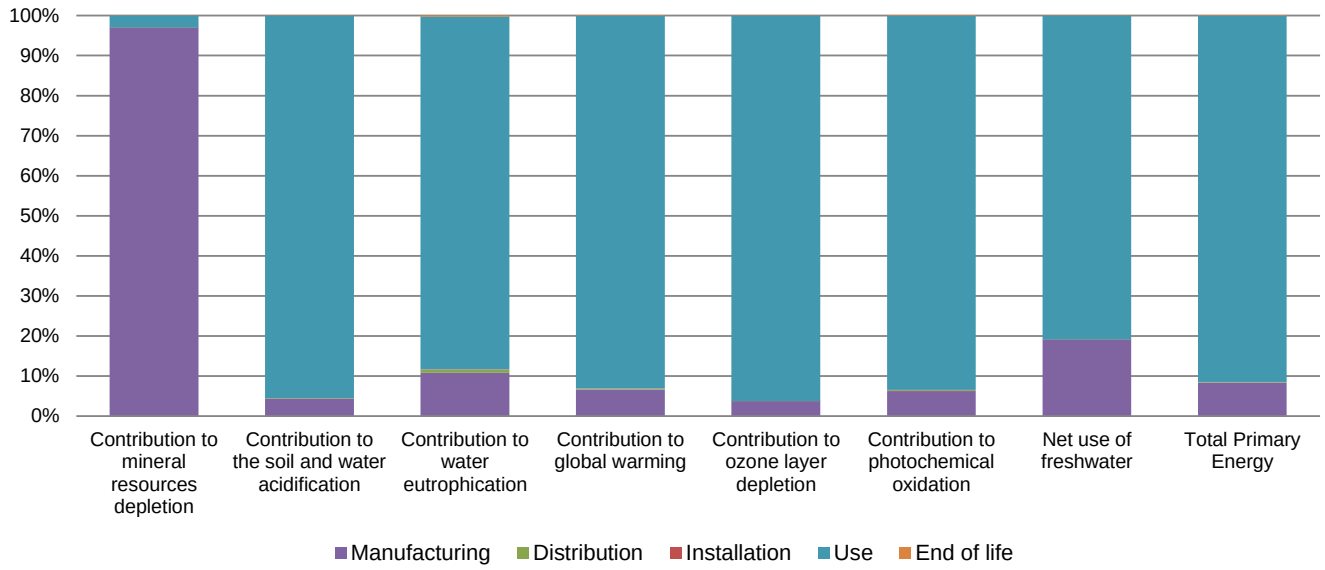
The Canalis KTA 800 to 5000A presents the following relevent environmental aspects	
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 120290.9 g, consisting of Wood 87.8%, Cardboard 10%, Paper 1%, PP 1% and PE-LD 0.2% Product distribution optimised by setting up local distribution centres
Installation	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for 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 Plastic parts with brominated FR (72.2g), Glue / Grease (260g used for configuration) and Cable 905g for configuration. 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: **93.0%** 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	End of Life of the Packaging			
Use scenario	Product dissipation is 22400 W at 100% Load rate and 2016 W at load rate / rated current (In): 30 % of In percentage of utilization time: 100%			
Geographical representativeness	Europe			
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 in production.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Manufacturing Plant: Hungary	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators	**Canalis KTA 800 to 5000A - Canalis KTA 2500 A**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.16E-01	3.07E-01	0*	0*	9.50E-03	0*
Contribution to the soil and water acidification	kg SO_2 eq	1.65E+03	7.16E+01	2.51E+00	0*	1.58E+03	8.48E-01
Contribution to water eutrophication	kg PO_4^{3-} eq	6.72E+01	7.24E+00	5.79E-01	2.93E-02	5.91E+01	2.02E-01
Contribution to global warming	kg CO_2 eq	2.24E+05	1.48E+04	5.54E+02	1.13E+02	2.09E+05	2.85E+02
Contribution to ozone layer depletion	kg CFC11 eq	5.27E-02	1.99E-03	0*	0*	5.07E-02	1.76E-05
Contribution to photochemical oxidation	kg C_2H_4 eq	7.98E+01	5.01E+00	1.81E-01	2.61E-02	7.45E+01	9.17E-02

Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	6.73E+02	1.28E+02	0*	0*	5.44E+02	3.40E-01
Total Primary Energy	MJ	4.62E+06	3.88E+05	7.81E+03	0*	4.22E+06	4.27E+03



Optional indicators	Canalis KTA 800 to 5000A - Canalis KTA 2500 A						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.29E+06	1.33E+05	7.76E+03	0*	2.15E+06	3.43E+03
Contribution to air pollution	m³	1.10E+07	2.00E+06	2.45E+04	2.69E+03	8.94E+06	3.02E+04
Contribution to water pollution	m³	9.74E+06	8.68E+05	9.09E+04	1.32E+03	8.75E+06	3.34E+04
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.18E+03	1.18E+03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.13E+05	1.08E+04	0*	0*	3.02E+05	0*
Total use of non-renewable primary energy resources	MJ	4.31E+06	3.77E+05	7.80E+03	0*	3.92E+06	4.27E+03
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.11E+05	8.35E+03	0*	0*	3.02E+05	0*
Use of renewable primary energy resources used as raw material	MJ	2.46E+03	2.46E+03	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.31E+06	3.72E+05	7.80E+03	0*	3.92E+06	4.27E+03
Use of non renewable primary energy resources used as raw material	MJ	4.83E+03	4.83E+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	2.32E+04	2.00E+04	0*	0*	0*	3.16E+03
Non hazardous waste disposed	kg	8.02E+05	2.20E+04	0*	8.55E+01	7.80E+05	0*
Radioactive waste disposed	kg	6.53E+02	1.72E+01	0*	0*	6.36E+02	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.08E+03	2.89E+02	0*	4.39E+01	0*	2.75E+03
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	3.42E+00	0*	0*	0*	0*	3.42E+00
Exported Energy	MJ	7.26E+01	6.82E+00	0*	6.58E+01	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 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	03/2020	*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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