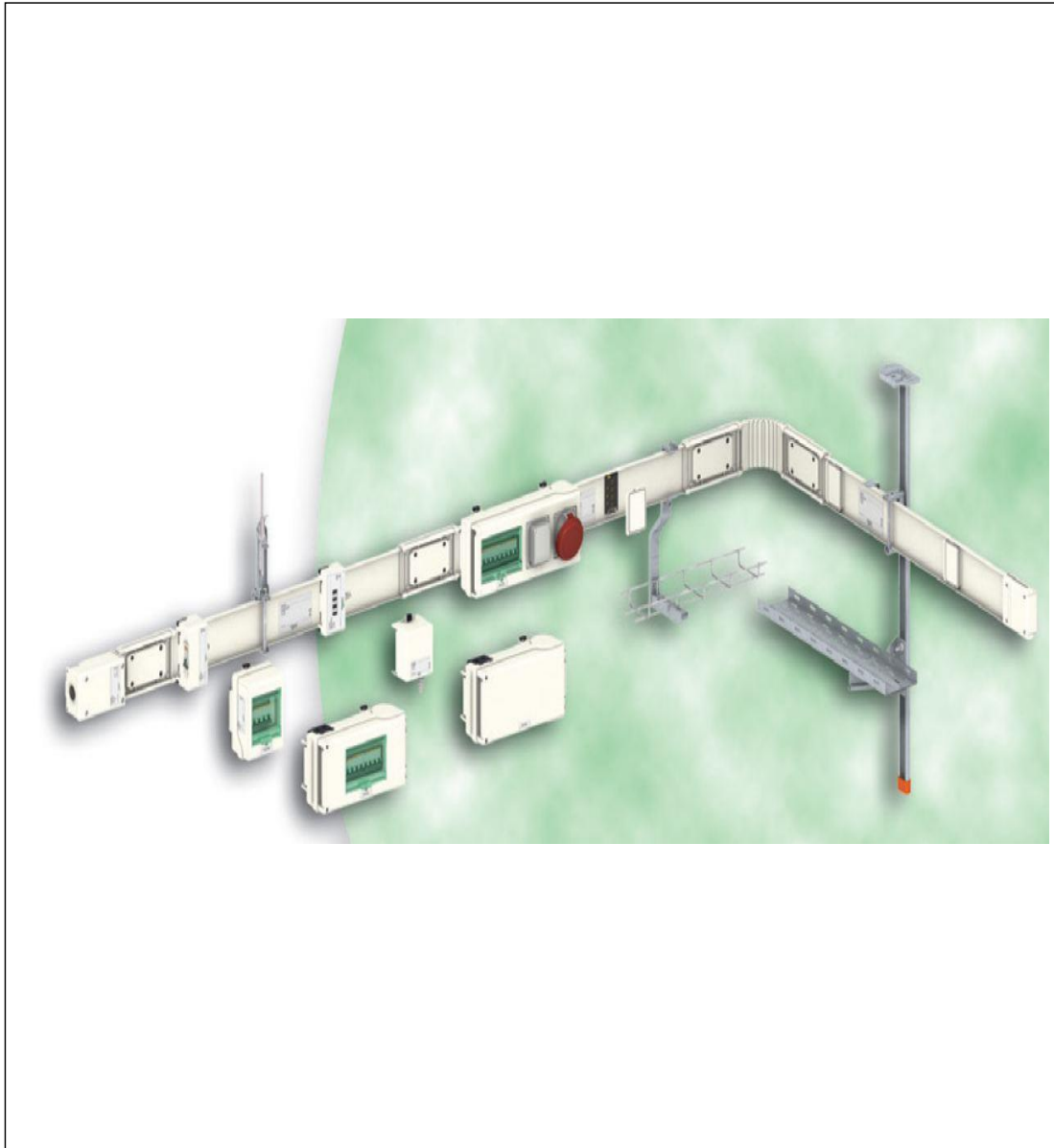


# Product Environmental Profile

## Canalis KNA 40A to 160A

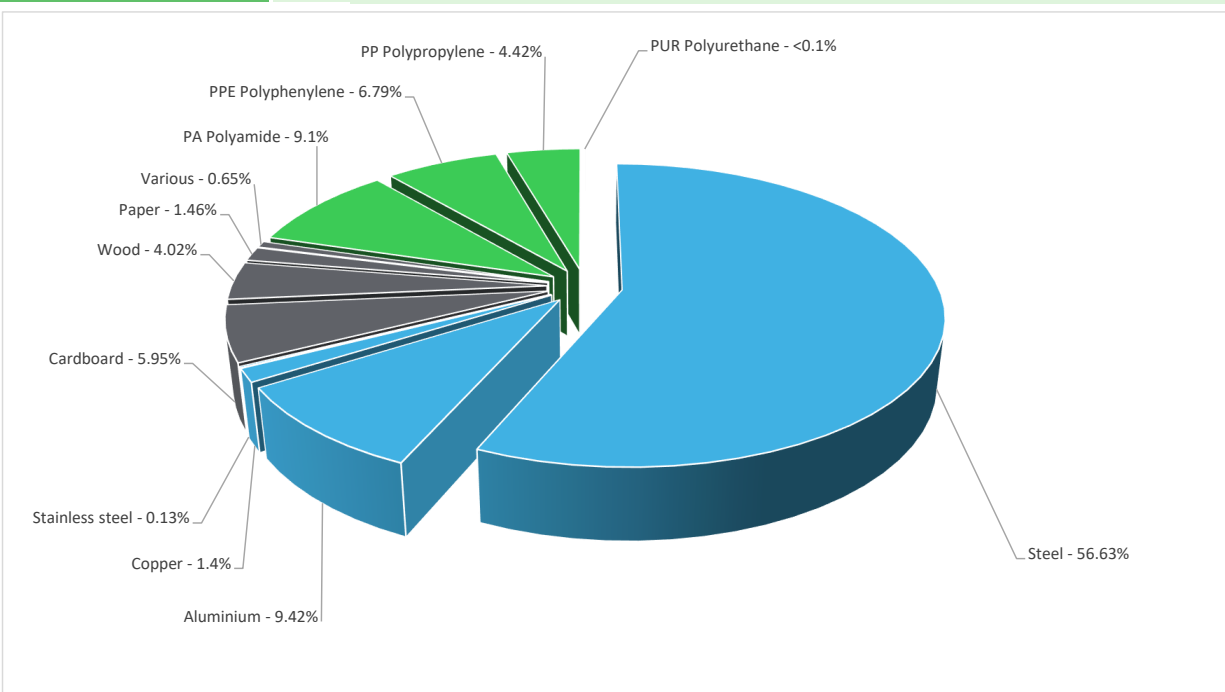


## General information

<b>Reference product</b>	<p>Canalis KNA 40A to 160A - The representative product used for the analysis is the typical product, Canalis KNA 63A, which consists of:</p> <ul style="list-style-type: none"> <li>1 x 63 A power feed box (cat. no. KNA63AB4)</li> <li>6 x 3 m straight lengths, 1 m modules for tap-off units (cat. no. KNA63ED4303)</li> <li>8 connectors (cat. no. KNB25CF5)</li> <li>7 fixing devices (cat. no. KNB160ZF1)</li> </ul>
<b>Description of the product</b>	<p>Canalis KNA is designed for low power distribution up to 160A. It can be used as the main power supply for type KDP, KBA, or KBB Lighting Busbar Trunking systems.</p> <p>This range consists of KNA, 40 A to 160 A, IP41/IP54</p> <p>Technical characteristics of Canalis KNA:</p> <ul style="list-style-type: none"> <li>• Length of busbar trunking components: 1.5m and 3m</li> <li>• Rated busbar trunking current: 40 to 160A</li> <li>• Rated tap off units current: 16 to 63A</li> <li>• Rated insulating voltage: 500V</li> <li>• Number of active conductors: 4 + PE</li> <li>• Protection index: IP55</li> <li>• Surface treatment: white RAL9001</li> <li>• Regulations: compliant with IEC 60439-2</li> </ul>
<b>Functional unit</b>	<p>The function of the Canalis KNA 40A to 160A product range is to distribute electrical energy for low power applications at Industrial buildings, Commercial centres, Tertiary buildings etc for 20 years.</p>

## Constituent materials

**Reference product mass** 40024 g including the product, its packaging and additional elements and accessories



	<b>Plastics</b>	<b>20.3%</b>
	<b>Metals</b>	<b>67.6%</b>
	<b>Others</b>	<b>12.1%</b>

## Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<https://www.se.com/ww/en/work/support/green-premium/>

## Additional environmental information

End Of Life	Recyclability potential:	75%	Recyclability rate has been calculated based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).
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## Environmental impacts

Reference service life time	20 years		
Product category	Other equipments - Passive product - continuous operation		
Installation elements	No special components needed		
Use scenario	load rate / rated current (In): 30 % of In percentage of utilization time: 100% Assumed service lifetime is 20 years and use scenario is: Product dissipation is 46.29 W at 30% load rate		
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		
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27
			[C1 - C4]
			Electricity Mix; Production mix; Low voltage; UE-27

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

Mandatory Indicators			Canalis KNA 40A to 160A					
Impact indicators	Unit	Total	Manufacturing [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to climate change	kg CO2 eq	3.73E+03	3.10E+02	1.15E+01	5.11E+00	3.32E+03	8.40E+01	-2.06E+03
Contribution to climate change-fossil	kg CO2 eq	3.73E+03	3.07E+02	1.15E+01	5.97E+00	3.32E+03	8.39E+01	-2.01E+03
Contribution to climate change-biogenic	kg CO2 eq	5.84E+00	2.14E+00	0*	0*	4.43E+00	1.14E-01	-4.67E+01
Contribution to climate change-land use and land use change	kg CO2 eq	1.91E-06	0*	0*	0*	0*	1.91E-06	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	9.26E-05	6.77E-05	1.02E-05	7.32E-08	1.42E-05	4.46E-07	-2.88E-04
Contribution to acidification	mol H+ eq	2.05E+01	1.21E+00	5.01E-02	7.05E-03	1.90E+01	2.45E-01	-1.53E+01
Contribution to eutrophication, freshwater	kg (PO4) <sup>3-</sup> eq	1.55E-02	2.30E-03	0*	6.48E-05	9.10E-03	4.07E-03	-6.42E-03
Contribution to eutrophication marine	kg N eq	2.48E+00	2.56E-01	2.30E-02	2.64E-03	2.16E+00	4.44E-02	-1.16E+00
Contribution to eutrophication, terrestrial	mol N eq	3.59E+01	2.74E+00	2.50E-01	2.12E-02	3.24E+01	4.94E-01	-1.29E+01
Contribution to photochemical ozone formation - human health	kg COVNM eq	8.11E+00	9.25E-01	8.19E-02	6.73E-03	6.92E+00	1.73E-01	-4.48E+00
Contribution to resource use, minerals and metals	kg Sb eq	9.27E-03	8.91E-03	0*	0*	2.41E-04	1.17E-04	-1.99E-01
Contribution to resource use, fossils	MJ	9.85E+04	8.87E+03	1.40E+02	1.51E+01	8.47E+04	4.74E+03	-3.26E+04
Contribution to water use	m3 eq	2.18E+02	7.86E+01	5.85E-01	4.69E-01	1.11E+02	2.82E+01	-6.30E+02

Additional indicators for the French regulation are available as well

Inventory flows Indicators			Canalis KNA 40A to 160A					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.63E+04	1.71E+01	0*	7.53E+00	1.63E+04	2.88E+00	-1.03E+03
Contribution to use of renewable primary energy resources used as raw material	MJ	9.13E+01	9.13E+01	0*	0*	0*	0*	-1.24E+02
Contribution to total use of renewable primary energy resources	MJ	1.64E+04	1.08E+02	0*	7.53E+00	1.63E+04	2.88E+00	-1.16E+03
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.82E+04	8.57E+03	1.40E+02	1.51E+01	8.47E+04	4.74E+03	-3.26E+04
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.02E+02	3.02E+02	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	9.85E+04	8.87E+03	1.40E+02	1.51E+01	8.47E+04	4.74E+03	-3.26E+04
Contribution to use of secondary material	kg	1.84E+00	1.84E+00	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m³	5.01E+00	1.60E+00	1.36E-02	0*	2.72E+00	6.70E-01	-9.05E+00
Contribution to hazardous waste disposed	kg	2.24E+02	1.25E+02	0*	0*	6.21E+01	3.65E+01	-1.61E+04
Contribution to non hazardous waste disposed	kg	6.42E+02	1.51E+02	0*	7.13E+00	4.78E+02	6.40E+00	-2.96E+03
Contribution to radioactive waste disposed	kg	2.41E-01	1.38E-01	2.29E-03	5.64E-04	1.00E-01	4.80E-04	-2.12E+00
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.75E+01	0*	0*	1.00E+00	0*	2.65E+01	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	2.46E+00	1.04E-01	0*	2.36E+00	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00


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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

The use phase has the greatest impacts contribution on the majority of environmental indicators, except for Climate change-Land use and land use change (GWPlu), Resource use, minerals and metals(ADPe) and Ozone depletion(ODP). this contribution is mainly due to the energy consumption throughout the product reference service lifetime. the manufacturing phase is the greatest contributor to the impact on Resource use, minerals and metals(ADPe) and Ozone depletion(ODP). this is mainly due on the manufacturing of the straight lengths.

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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		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 Julie ORGELET (DDemain)			
PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019			
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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