Product Environmental Profile

IP CONVERTER



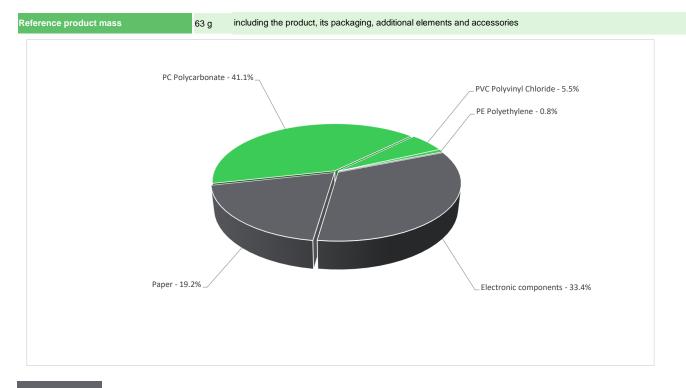




General information

Reference product	IP CONVERTER - RGE2098500
Description of the product	The main purpose of the IP Converter is to connect multiple devices into the TwinBus IP system The material constituant of the packaging is Plastic (10.7%) & Paper (89.3%)
Description of the range	Single product
Functional unit	The Twin bus IP connecting device typically referes to a networking device or component designed to facilitate communication within a twin bus network architecture using internent protocol with rated voltage 24V, a current consumption of less than 0.1A and with a protection class IP20 in accordance with the standard IEC 60529 with the following dimension 18mm x 100mm x 67mm during the reference service life of the product of 10 years

Constituent materials



Others 52.6%

Plastics 47.4%

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/

Manufacturing Manufactured at a production site complying with the regulations Distribution Weight and volume of the packaging optimized, based on the European Union's packaging directive 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 is accounted during the installation phase (including transport to disposal). Use The product does not require special maintenance operations

Recyclability potential:

Necyclability potential:

The recyclability rate was calculated from the recycling rates of each material making up the product based on REECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database, the ESR database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability)

Environmental impacts

Reference service life time	10 years								
Product category	Other equipments - Active product								
Installation elements	No special components needed								
Use scenario		The Product is in active mode 10% of the time with a power use of 0.72W, in the stand mode 10% of the time with power use of 0.6W and in the sleep mode of 80% of the time with power use of 0.48W, for the reference service life time of 10 years							
Time representativeness	The collected data are representative of the year 2	2023							
Technological representativeness		The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and representative of the actual type of technologies used to make the production.							
Geographical representativeness	Germany and Austria								
	[A1 - A3]	[A5]	[B6]	[C1 - C4]					
Energy model used	Electricity Mix; Low voltage; 2018; China, CN Electricity Mix; Low voltage; 2018; Europe, EU-27	, ,	Electricity Mix; Low voltage; 2018; Germany, DE	Electricity Mix; Low voltage;					
	Electricity Mix; Low voltage; 2018; France, FR Electricity Mix; Low voltage; 2018; Brazil, BR	2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Austria, AT	2018; Europe, EU-27					

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneiderelectric.com/contact

Mandatory Indicators			IP CONVERTER - RGE2098500								
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads			
Contribution to climate change	kg CO2 eq	2.26E+01	1.72E+00	2.82E-01	4.64E-03	2.04E+01	1.49E-01	0.00E+00			
Contribution to climate change-fossil	kg CO2 eq	2.26E+01	1.70E+00	2.82E-01	4.64E-03	2.04E+01	1.49E-01	0.00E+00			
Contribution to climate change-biogenic	kg CO2 eq	3.12E-02	2.05E-02	0*	0*	1.08E-02	0*	0.00E+00			
Contribution to climate change-land use and land use chan	ge kg CO2 eq	4.16E-05	4.16E-05	0*	0*	0*	0*	0.00E+00			
Contribution to ozone depletion	kg CFC-11 eq	5.69E-07	2.21E-07	2.43E-07	7.10E-11	1.05E-07	2.50E-10	0.00E+00			
Contribution to acidification	mol H+ eq	1.65E-01	1.30E-02	1.10E-03	0*	1.51E-01	1.02E-04	0.00E+00			
Contribution to eutrophication, freshwater	kg (PO4)³¯ eq	2.67E-05	4.74E-06	3.27E-08	0*	2.14E-05	5.11E-07	0.00E+00			
Contribution to eutrophication marine	kg N eq	1.77E-02	1.31E-03	4.74E-04	3.57E-06	1.59E-02	4.72E-05	0.00E+00			
Contribution to eutrophication, terrestrial	mol N eq	2.61E-01	1.41E-02	5.17E-03	3.76E-05	2.41E-01	5.03E-04	0.00E+00			
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.80E-02	4.78E-03	1.95E-03	9.12E-06	5.11E-02	1.22E-04	0.00E+00			
Contribution to resource use, minerals and metals	kg Sb eq	4.16E-04	4.14E-04	0*	0*	1.25E-06	0*	0.00E+00			
Contribution to resource use, fossils	MJ	4.23E+02	2.64E+01	3.51E+00	0*	3.93E+02	2.08E-01	0.00E+00			
Contribution to water use	m3 eq	1.77E+00	9.13E-01	1.43E-02	1.64E-03	8.30E-01	7.77E-03	0.00E+00			

Inventory flows Indicators			IP CONVERTER - RGE2098500							
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads		
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.14E+02	9.42E-01	0*	0*	1.13E+02	0*	0.00E+00		
Contribution to use of renewable primary energy resources used as raw material	MJ	2.30E-01	2.30E-01	0*	0*	0*	0*	0.00E+00		
Contribution to total use of renewable primary energy resources	MJ	1.14E+02	1.17E+00	0*	0*	1.13E+02	0*	0.00E+00		
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.22E+02	2.51E+01	3.51E+00	0*	3.93E+02	2.08E-01	0.00E+00		
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.27E+00	1.27E+00	0*	0*	0*	0*	0.00E+00		
Contribution to total use of non-renewable primary energy resources	MJ	4.23E+02	2.64E+01	3.51E+00	0*	3.93E+02	2.08E-01	0.00E+00		

Contribution to use of secondary material	kg	6.00E-06	6.00E-06	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	4.16E-02	2.17E-02	3.33E-04	3.82E-05	1.93E-02	1.81E-04	0.00E+00
Contribution to hazardous waste disposed	kg	8.01E+00	7.43E+00	0*	0*	5.67E-01	2.19E-02	0.00E+00
Contribution to non hazardous waste disposed	kg	3.77E+00	4.84E-01	0*	1.59E-02	3.23E+00	3.64E-02	0.00E+00
Contribution to radioactive waste disposed	kg	4.85E-04	2.68E-04	5.48E-05	6.45E-07	1.58E-04	2.81E-06	0.00E+00
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.09E-07	3.09E-07	0*	0*	0*	0*	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	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

 $^{^{\}star}$ represents less than 0.01% of the total life cycle of the reference flow

Contribution to biogenic carbon content of the product	kg de C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	4.73E-03

Mandatory Indicators				IP CONVERTER - RGE2098500					
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	2.04E+01	0*	0*	0*	0*	0*	2.04E+01	0*
Contribution to climate change-fossil	kg CO2 eq	2.04E+01	0*	0*	0*	0*	0*	2.04E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	1.08E-02	0*	0*	0*	0*	0*	1.08E-02	0*
Contribution to climate change-land use and land use change	ge kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	1.05E-07	0*	0*	0*	0*	0*	1.05E-07	0*
Contribution to acidification	mol H+ eq	1.51E-01	0*	0*	0*	0*	0*	1.51E-01	0*
Contribution to eutrophication, freshwater	kg (PO4)³¯ eq	2.14E-05	0*	0*	0*	0*	0*	2.14E-05	0*
Contribution to eutrophication marine	kg N eq	1.59E-02	0*	0*	0*	0*	0*	1.59E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	2.41E-01	0*	0*	0*	0*	0*	2.41E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.11E-02	0*	0*	0*	0*	0*	5.11E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.25E-06	0*	0*	0*	0*	0*	1.25E-06	0*
Contribution to resource use, fossils	MJ	3.93E+02	0*	0*	0*	0*	0*	3.93E+02	0*
Contribution to water use	m3 eq	8.30E-01	0*	0*	0*	0*	0*	8.30E-01	0*

Inventory flows Indicators		IP CONVERTER - RGE2098500							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
ontribution to use of renewable primary energy excluding newable primary energy used as raw material	MJ	1.13E+02	0*	0*	0*	0*	0*	1.13E+02	0*
ribution to use of renewable primary energy resources as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
ribution to total use of renewable primary energy urces	MJ	1.13E+02	0*	0*	0*	0*	0*	1.13E+02	0*
bution to use of non renewable primary energy ding non renewable primary energy used as raw ial	MJ	3.93E+02	0*	0*	0*	0*	0*	3.93E+02	0*
oution to use of non renewable primary energy ces used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
oution to total use of non-renewable primary energy ces	MJ	3.93E+02	0*	0*	0*	0*	0*	3.93E+02	0*
ution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*

Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	1.93E-02	0*	0*	0*	0*	0*	1.93E-02	0*
Contribution to hazardous waste disposed	kg	5.67E-01	0*	0*	0*	0*	0*	5.67E-01	0*
Contribution to non hazardous waste disposed	kg	3.23E+00	0*	0*	0*	0*	0*	3.23E+00	0*
Contribution to radioactive waste disposed	kg	1.58E-04	0*	0*	0*	0*	0*	1.58E-04	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	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 v6.1, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

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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The PCR review was conduc	ted by a panel of experts chaired by							
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022								
The components of the present PEP may not be compared with components from any other program.								
Postument complies with ISO 44005-0006 "Environmental labels and designation. Type III any incomparity designation."								

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