Product Environmental Profile

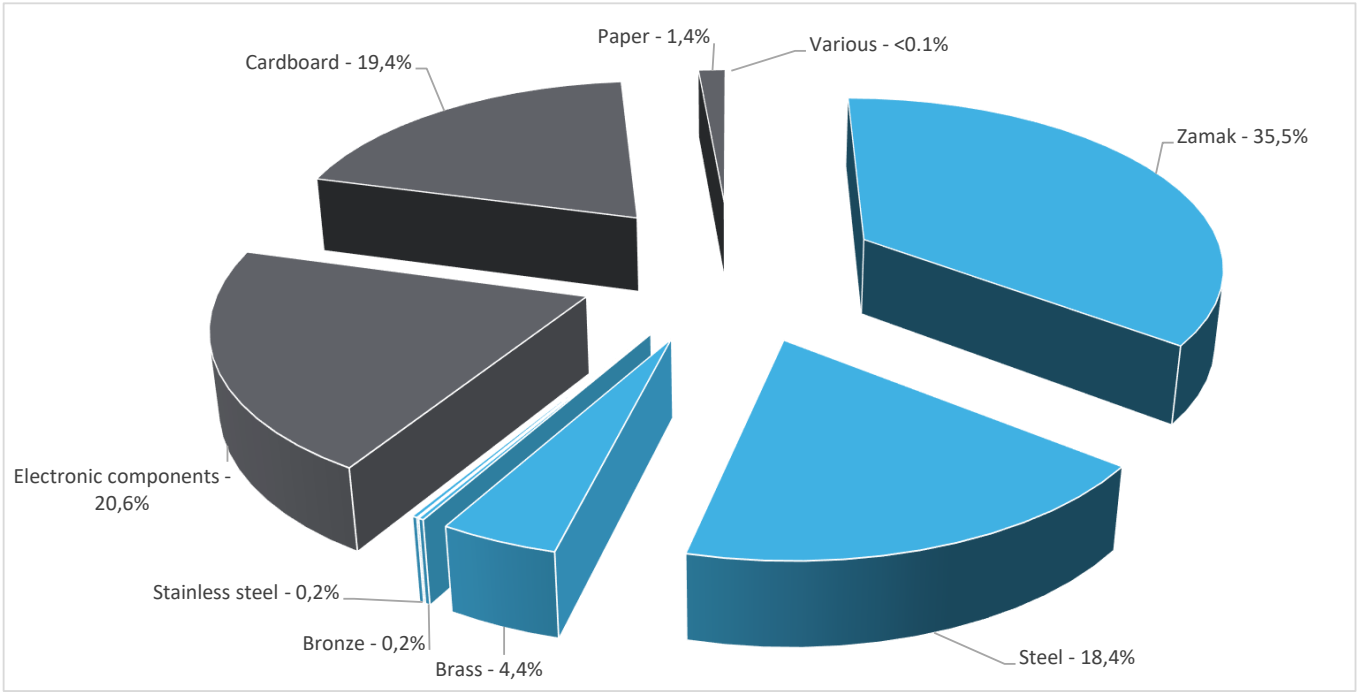
Power interconnect, Lexium MC12 multi carrier

General information

Representative product	Power interconnect, Lexium MC12 multi carrier - LXMMCBPAP01S100
Description of the range	Lexium MC12 multi carrier is an innovative transport system to be used in machines. It uses latest linear motion technology to move products individually through the machine. These individual movements allow for new machine designs making machines faster, more flexible and space efficient. This range consists of LXMCBP power connectors and interconnects for open and closed Lexium multi carrier longstator motors. The power interconnects ensure the power distribution in the track. They are mounted at the bottom side and provide an alignment aid helping to mount the long stator motor segments properly. 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	To support the transmission of the DC power in the track with a 100% use rate during 20 years.

Constituent materials

Reference product mass	710 g	including the product, its packaging and additional elements and accessories



	Plastics	0,0%
	Metals	58,7%
	Others	41,4%

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

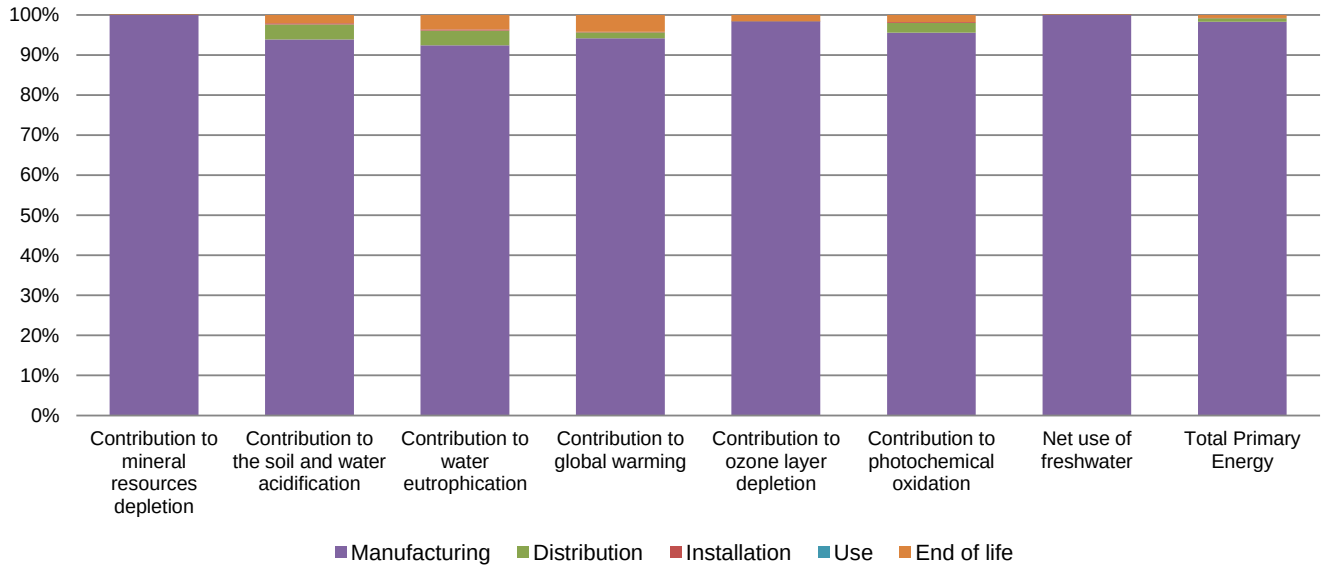
Additional environmental information

The Power interconnect, Lexium MC12 multi carrier 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 150 g, consisting of carddboard (93%) and paper (7%) Product distribution optimised by setting up local distribution centres
Installation	Does not require any specific installation
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 electronic card (62g) 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: **62%** 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 - non-continuous operation			
Installation elements	No special components needed			
Use scenario	Passive product			
Geographical representativeness	Europe			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: Germany	0	0	0

Compulsory indicators		Power interconnect, Lexium MC12 multi carrier - LXMMCBPAP01S100					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	5,76E-04	5,76E-04	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO_2 eq	1,12E-02	1,05E-02	4,18E-04	3,38E-05	0*	2,31E-04
Contribution to water eutrophication	kg PO_4^{3-} eq	2,61E-03	2,41E-03	9,63E-05	8,22E-06	0*	9,39E-05
Contribution to global warming	kg CO_2 eq	6,20E+00	5,84E+00	9,16E-02	8,12E-03	0*	2,61E-01
Contribution to ozone layer depletion	kg CFC11 eq	6,73E-07	6,62E-07	1,86E-10	0*	0*	1,02E-08
Contribution to photochemical oxidation	kg C_2H_4 eq	1,20E-03	1,15E-03	2,98E-05	2,53E-06	0*	2,11E-05
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3,44E-01	3,44E-01	0*	0*	0*	1,51E-04
Total Primary Energy	MJ	1,45E+02	1,42E+02	1,30E+00	1,06E-01	0*	1,05E+00



Optional indicators		Power interconnect, Lexium MC12 multi carrier - LXMMCBPAP01S100					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	6,75E+01	6,53E+01	1,29E+00	1,05E-01	0*	8,55E-01
Contribution to air pollution	m^3	2,67E+03	2,66E+03	3,90E+00	3,24E-01	0*	7,49E+00
Contribution to water pollution	m^3	5,19E+02	4,90E+02	1,51E+01	1,23E+00	0*	1,32E+01
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	6,12E-02	6,12E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,93E+00	1,93E+00	1,73E-03	0*	0*	1,04E-03
Total use of non-renewable primary energy resources	MJ	1,43E+02	1,40E+02	1,29E+00	1,06E-01	0*	1,05E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	-8,49E-01	-8,52E-01	0*	0*	0*	0*
Use of renewable primary energy resources used as raw material	MJ	2,78E+00	2,78E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,41E+02	1,39E+02	1,29E+00	1,06E-01	0*	1,05E+00
Use of non renewable primary energy resources used as raw material	MJ	1,58E+00	1,58E+00	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	8,18E+00	7,24E+00	0*	0*	0*	9,39E-01
Non hazardous waste disposed	kg	4,73E+00	4,73E+00	3,25E-03	1,10E-03	0*	2,96E-03
Radioactive waste disposed	kg	1,17E-03	1,16E-03	2,32E-06	2,17E-07	0*	6,28E-06
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5,64E-01	5,96E-02	0*	1,49E-01	0*	3,55E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	6,38E-02	0*	0*	0*	0*	6,38E-02
Exported Energy	MJ	4,74E-04	4,46E-05	0*	4,30E-04	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 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.

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	ENVPEP2110015_V1	*Drafting rules*	PCR-ed3-EN-2015 04 02
Date of issue	12/2021		
Validity period	5 years	*Information and reference documents*	www.pep-ecopassport.org

Independent verification of the declaration and data

Internal X External

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »

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