Product Environmental Profile

Communication interconnect between segments Lexium MC12 multi carrier







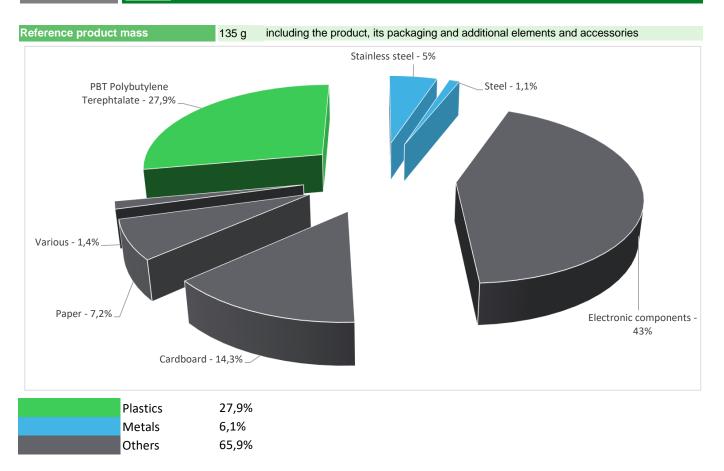
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General information

Representative product	Communication interconnect between segments, Lexium MC12 multi carrier - LXMMCBCAS01S100
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 LXMCBC and LXMCBD communication connectors and interconnects for open and closed Lexium multi carrier long stator motors. 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 interconnect the straight or curve longstator motor segments and to support the transmission of the communication (Sercos), and of the SFO safety function (Safe Force Off) at 2 mW with a 100% use rate during 10 years.

Constituent materials



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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

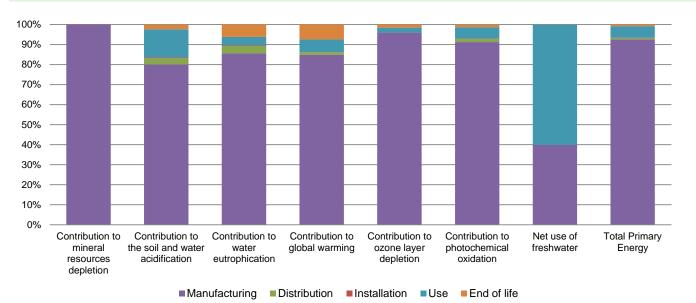
The Communication interconnect between segments, Lexium MC12 multi carrier presents the following relevent environmental aspects							
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified						
	Weight and volume of the packaging optimized, based on the European Union's packaging directive						
Distribution	Packaging weight is 30 g, consisting of cardboard (66%) and paper (34%)						
	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 optimized to decrease the amount of waste and allow recovery of the product components and materials						
	This product contains one electronic card (60g) that should be separated from the stream of waste so as to optimize end-of-life treatment.						
End of life	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: 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).						

P Environmental impacts

Reference life time	10 years					
Installation elements	No special components needed					
Use scenario	The product is in active mode 100% of the time with a power use of 2mW for 10 years					
Geographical representativeness	Europe					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: Germany	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27		

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Compulsory indicators	Communication interconnect between segments, Lexium MC12 multi carrier - LXMMCBCAS01S100						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	9,53E-05	9,53E-05	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2,53E-03	2,03E-03	7,95E-05	6,77E-06	3,58E-04	5,96E-05
Contribution to water eutrophication	kg PO ₄ 3- eq	5,05E-04	4,33E-04	1,83E-05	1,64E-06	2,16E-05	3,13E-05
Contribution to global warming	kg CO ₂ eq	1,36E+00	1,15E+00	1,74E-02	1,62E-03	8,58E-02	1,01E-01
Contribution to ozone layer depletion	kg CFC11 eq	2,21E-07	2,12E-07	3,53E-11	0*	5,59E-09	3,43E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	3,50E-04	3,19E-04	5,68E-06	5,06E-07	1,97E-05	4,78E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	5,18E-01	2,07E-01	0*	0*	3,11E-01	0*
Total Primary Energy	MJ	3,02E+01	2,79E+01	2,46E-01	2,12E-02	1,71E+00	2,50E-01



Optional indicators	Communication interconnect between segments, Lexium MC12 multi carrier - LXMMCBCAS01S100						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,46E+01	1,31E+01	2,45E-01	2,11E-02	9,74E-01	2,05E-01
Contribution to air pollution	m³	2,41E+02	2,35E+02	7,41E-01	6,48E-02	3,69E+00	1,81E+00
Contribution to water pollution	m³	1,45E+02	1,34E+02	2,86E+00	2,46E-01	3,54E+00	4,17E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,10E-02	1,10E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,13E+00	9,10E-01	3,28E-04	0*	2,18E-01	2,25E-04
Total use of non-renewable primary energy resources	MJ	2,90E+01	2,70E+01	2,46E-01	2,12E-02	1,50E+00	2,49E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7,31E-01	5,12E-01	3,28E-04	0*	2,18E-01	2,25E-04
Use of renewable primary energy resources used as raw material	MJ	3,97E-01	3,97E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,71E+01	2,51E+01	2,46E-01	2,12E-02	1,50E+00	2,49E-01
Use of non renewable primary energy resources used as raw material	MJ	1,90E+00	1,90E+00	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*

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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	1,07E+00	8,13E-01	0*	0*	0*	2,61E-01
Non hazardous waste disposed	kg	6,29E-01	3,07E-01	6,19E-04	2,20E-04	3,20E-01	6,55E-04
Radioactive waste disposed	kg	5,27E-04	3,11E-04	4,41E-07	0*	2,14E-04	1,71E-06
and the second second							
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	Total 5,73E-02	Manufacturing 8,61E-03	Distribution 0*	Installation 2,99E-02	Use 0*	1,89E-02
Materials for recycling	kg	5,73E-02	8,61E-03	0*	2,99E-02	0*	1,89E-02

^{*} 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.

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Date of issue	11/2021		
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
Independent verification of	of the declaration and data		

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Χ Internal 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) »

Schneider Electric Industries SAS

Country Customer Care Center http://www.schneider-electric.com/contact

35, rue Joseph Monier

CS 30323

F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439 Capital social 896 313 776 €

www.schneider-electric.com

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