

Product Environmental Profile

Lexium BCH2 Servo Motor





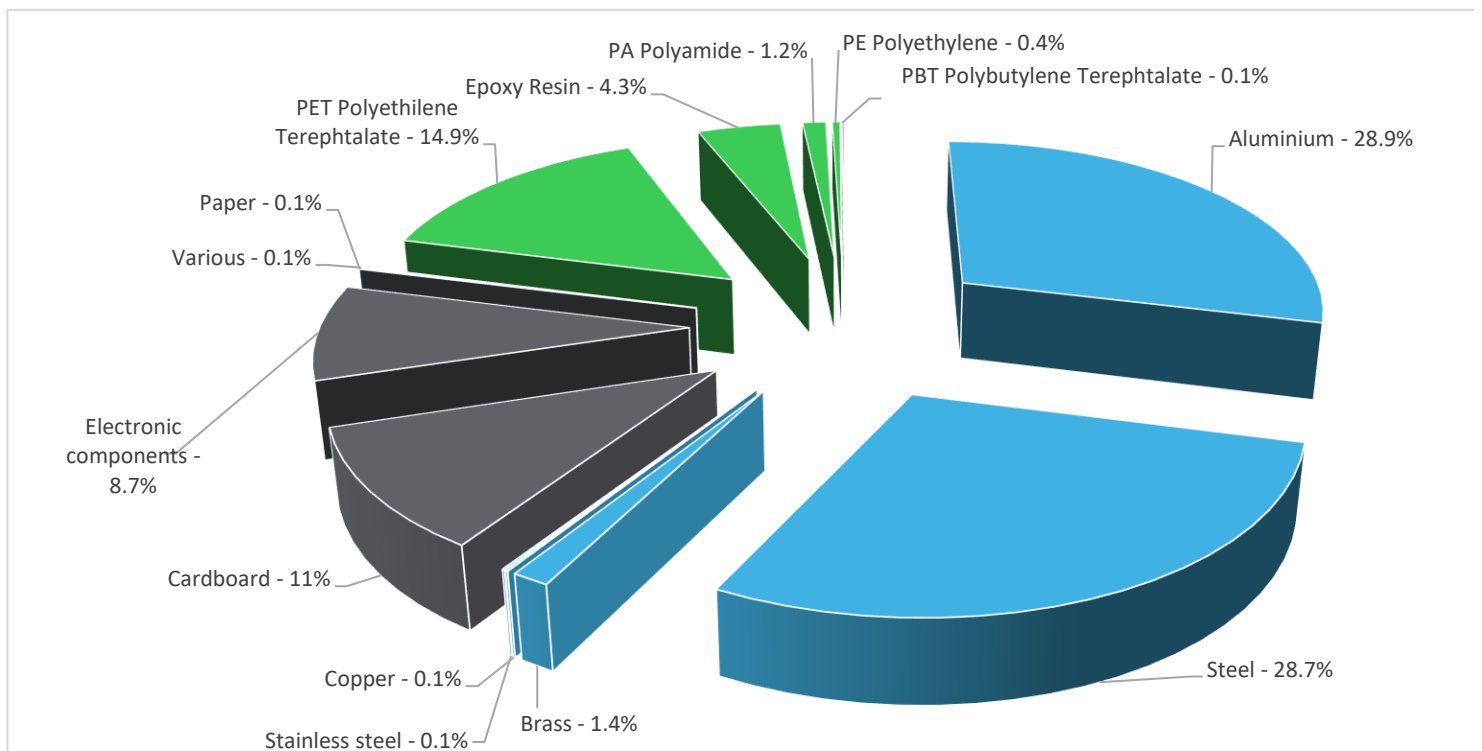
General information

Representative product	Lexium BCH2 Servo Motor - BCH2MM1021CF6C
Description of the product	Servo Motor BCH - 130mm - 1000W
Description of the range	<p>The Lexium BCH2 Servo Motors are designed for use with Lexium28. The Lexium28 is an all-purpose AC servo drive. Together with the Lexium BCH2 Servo Motors as well as a comprehensive portfolio of options and accessories, the drives are ideally suited to implement compact, high performance drive solutions for a wide range of power requirements.</p> <p>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.</p>
Functional unit	To coordinate and synchronize motion control with a nominal torque from 0.16 Nm to 28.6 Nm and a nominal speed of from 1,500 to 3,000 rpm 70% of the time for 10 years



Constituent materials

Reference product mass	8920 g including the product, its packaging and additional elements and accessories
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Plastics	20.9%
Metals	59.2%
Others	19.9%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) 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) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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

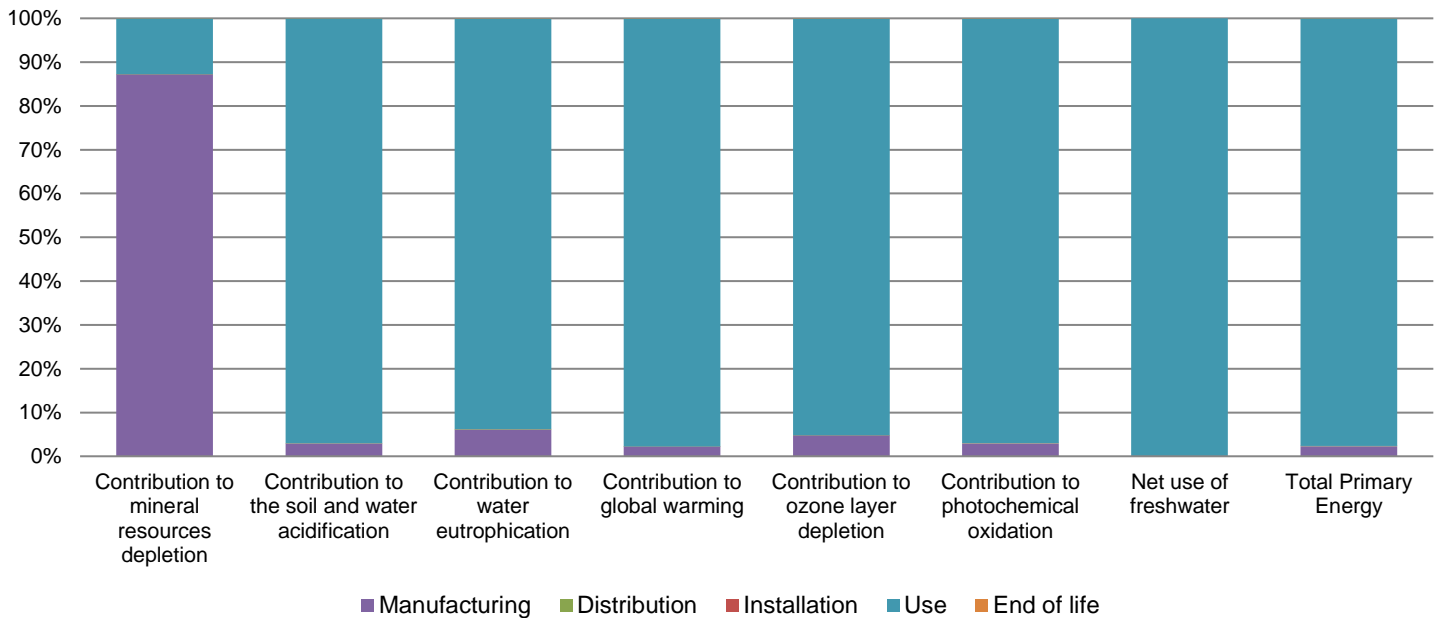
The Lexium BCH2 Servo Motor presents the following relevant environmental aspects

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 1020.9 g, consisting of cardboard (96%), polyethylene film (3%) and paper (1%) 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 No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process. Recyclability potential: 26% 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	10 years			
Installation elements	No special components needed			
Use scenario	The product is in active mode 50% of the time with a power use of 105.52W and in stand-by mode 20% of the time with a power use of 1.5W, for 10 years			
Geographical representativeness	Europe			
Technological representativeness	Servo Motor BCH - 130mm - 1000W			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: China	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

Compulsory indicators		Lexium BCH2 Servo Motor - BCH2MM1021CF6C					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.55E-03	1.35E-03	0*	0*	1.98E-04	0*
Contribution to the soil and water acidification	kg SO ₂ eq	9.79E+00	2.80E-01	5.25E-03	0*	9.50E+00	2.35E-03
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	6.12E-01	3.66E-02	1.21E-03	6.75E-05	5.74E-01	5.99E-04
Contribution to global warming	kg CO ₂ eq	2.33E+03	5.11E+01	1.15E+00	0*	2.28E+03	9.58E-01
Contribution to ozone layer depletion	kg CFC11 eq	1.56E-04	7.46E-06	0*	0*	1.48E-04	5.75E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	5.38E-01	1.58E-02	3.75E-04	0*	5.22E-01	2.47E-04
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	8.26E+03	0*	0*	0*	8.26E+03	0*
Total Primary Energy	MJ	4.66E+04	1.07E+03	1.63E+01	0*	4.55E+04	1.16E+01



Optional indicators		Lexium BCH2 Servo Motor - BCH2MM1021CF6C					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.63E+04	4.24E+02	1.62E+01	0*	2.58E+04	9.31E+00
Contribution to air pollution	m ³	1.05E+05	7.31E+03	4.90E+01	0*	9.80E+04	8.29E+01
Contribution to water pollution	m ³	1.01E+05	7.15E+03	1.89E+02	0*	9.40E+04	9.34E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.27E+00	2.27E+00	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	5.82E+03	3.72E+01	0*	0*	5.78E+03	0*
Total use of non-renewable primary energy resources	MJ	4.08E+04	1.04E+03	1.63E+01	0*	3.97E+04	1.16E+01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.80E+03	1.78E+01	0*	0*	5.78E+03	0*
Use of renewable primary energy resources used as raw material	MJ	1.94E+01	1.94E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.07E+04	9.72E+02	1.63E+01	0*	3.97E+04	1.16E+01
Use of non renewable primary energy resources used as raw material	MJ	6.30E+01	6.30E+01	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	5.42E+01	3.94E+01	0*	0*	1.19E+00	1.36E+01
Non hazardous waste disposed	kg	8.54E+03	4.92E+01	0*	0*	8.49E+03	0*
Radioactive waste disposed	kg	5.70E+00	3.34E-02	0*	0*	5.67E+00	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.52E+00	4.61E-01	0*	9.91E-01	0*	2.06E+00
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	7.07E-02	0*	0*	0*	0*	7.07E-02
Exported Energy	MJ	3.12E-03	2.93E-04	0*	2.82E-03	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.6.0.1, 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).

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	ENVPEP1504002_V2	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	11/2020		
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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ENVPEP1504002_V2

Published by Schneider Electric

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11/2020