

Product Environmental Profile

Lexium PAS41 to PAS44 - 4 Nm to 110 Nm





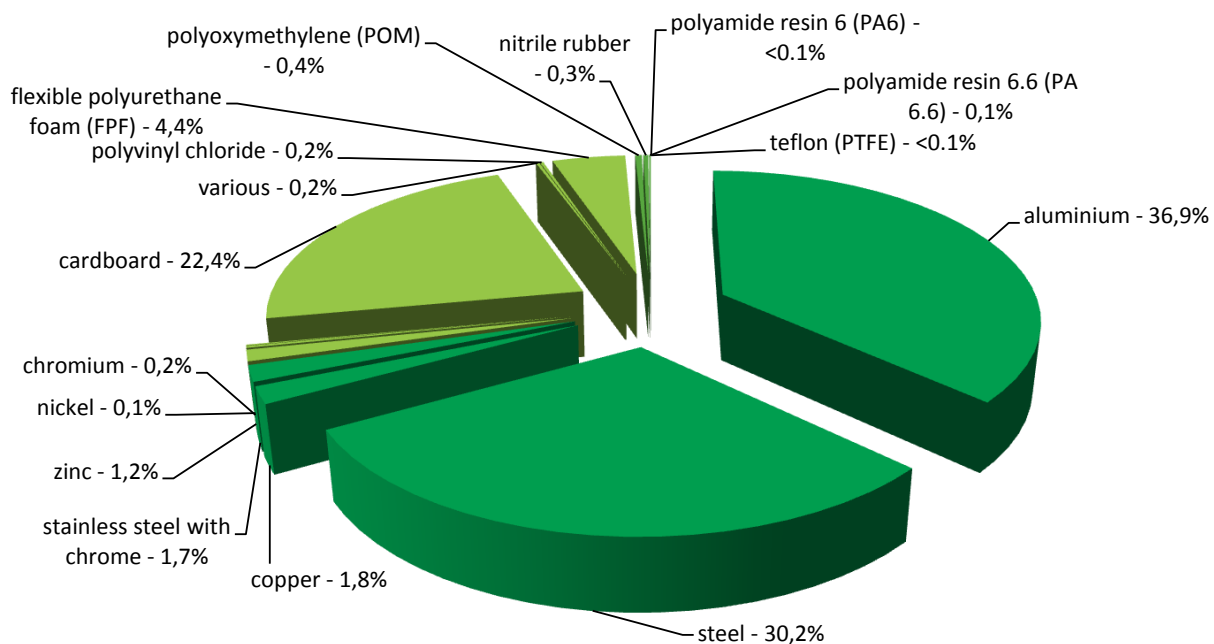
General information

Representative product	Lexium PAS41 to PAS44 - 4 Nm to 110 Nm -PAS42BBM0750A1
Description of the range	<p>The main purpose of the Lexium PAS41 to PAS44 – 4 Nm to 110 Nm is to provide mechanical linear axes to build up complete electromechanical solutions for industrial applications together with the Schneider Electric motor offer.</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	PAS portal axes are designed for applications which require positioning of heavy loads over long distances with a high dynamic response during 10 years with a 75% use rate.



Constituent materials

Reference product mass	18800 g including the product, its packaging and additional elements and accessories
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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 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 PAS41 to PAS44 - 4 Nm to 110 Nm presents the following relevant environmental aspects

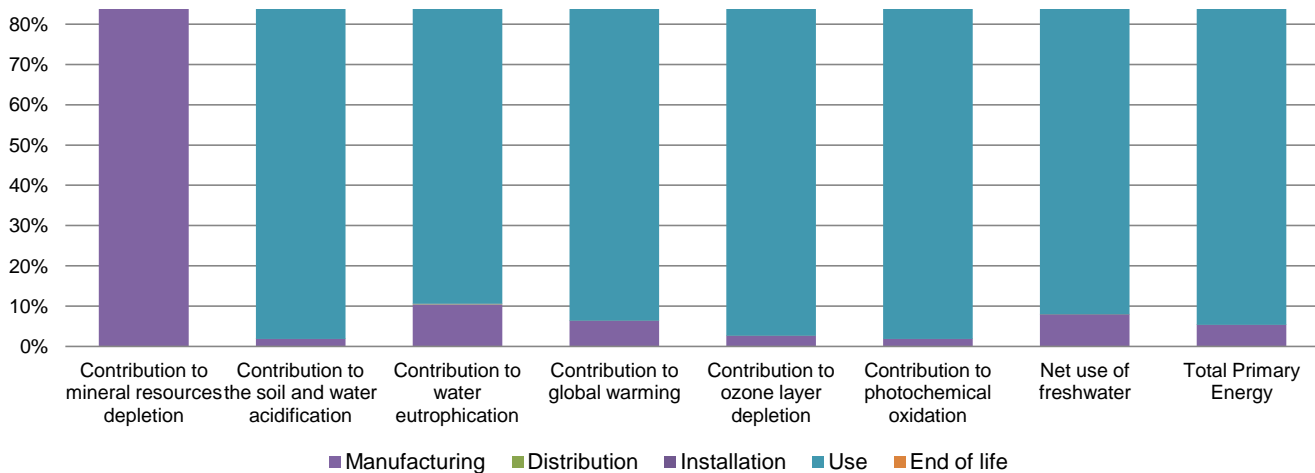
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 4805,4 g, consisting of cardboard (87,40%), PU foam (12,50%), paper (0,10%). Product distribution optimised by setting up local distribution centres
Installation	The product does not require any installation operations.
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: 82% 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 75% of the time with a power use of 122W for 10 years.			
Geographical representativeness	Europe			
Technological representativeness	Lexium PAS41 to PAS44 - 4 Nm to 110 Nm			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Germany	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		Lexium PAS41 to PAS44 - 4 Nm to 110 Nm - PAS42BBM0750A1					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	5,86E-03	5,64E-03	0*	0*	2,16E-04	0*
Contribution to the soil and water acidification	kg SO ₂ eq	3,65E+01	6,66E-01	1,11E-02	0*	3,58E+01	4,05E-03
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1,50E+00	1,57E-01	2,55E-03	3,63E-04	1,34E+00	9,67E-04
Contribution to global warming	kg CO ₂ eq	5,06E+03	3,21E+02	2,43E+00	5,51E-01	4,73E+03	1,37E+00
Contribution to ozone layer depletion	kg CFC11 eq	1,18E-03	3,13E-05	0*	0*	1,15E-03	0*
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1,72E+00	3,15E-02	7,90E-04	0*	1,69E+00	4,36E-04
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1,34E+01	1,07E+00	0*	0*	1,23E+01	1,62E-03
Total Primary Energy	MJ	1,01E+05	5,41E+03	3,43E+01	0*	9,59E+04	2,26E+01





Optional indicators		Lexium PAS41 to PAS44 - 4 Nm to 110 Nm - PAS42BBM0750A1						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	5,32E+04	4,41E+03	3,41E+01	6,51E+00	4,88E+04	1,85E+01	
Contribution to air pollution	m³	2,27E+05	2,37E+04	1,03E+02	5,12E+01	2,03E+05	1,44E+02	
Contribution to water pollution	m³	2,22E+05	2,26E+04	3,99E+02	5,67E+01	1,99E+05	1,55E+02	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	8,42E+00	8,42E+00	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	6,99E+03	1,34E+02	0*	0*	6,86E+03	0*	
Total use of non-renewable primary energy resources	MJ	9,44E+04	5,28E+03	3,43E+01	0*	8,90E+04	2,25E+01	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	6,99E+03	1,34E+02	0*	0*	6,86E+03	0*	
Use of renewable primary energy resources used as raw material	MJ	0,00E+00	0*	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9,43E+04	5,24E+03	3,43E+01	0*	8,90E+04	2,25E+01	
Use of non renewable primary energy resources used as raw material	MJ	4,14E+01	4,14E+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	4,36E+02	4,10E+02	0*	9,63E+00	0*	1,66E+01	
Non hazardous waste disposed	kg	1,79E+04	2,12E+02	0*	0*	1,77E+04	0*	
Radioactive waste disposed	kg	1,45E+01	9,94E-02	0*	0*	1,44E+01	0*	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	1,24E+01	9,87E-01	0*	0*	0*	1,15E+01	
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	5,04E-02	1,27E-03	0*	3,00E-02	0*	1,91E-02	
Exported Energy	MJ	0,00E+00	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 EIME v5.5, database version 2015-04.

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.

Depending on the impact analysis, the environmental indicators (without RMD) of other products in this family may be proportional extrapolated by energy consumption values". For RMD, impact may be proportional extrapolated by mass of the product.

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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Verifier accreditation N°	VH08	Information and reference documents	www.pep-ecopassport.org
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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 Philippe Osset (SOLINNEN)			
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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