Product Environmental Profile

Altivar Process 630 - 7,5KW - 600V

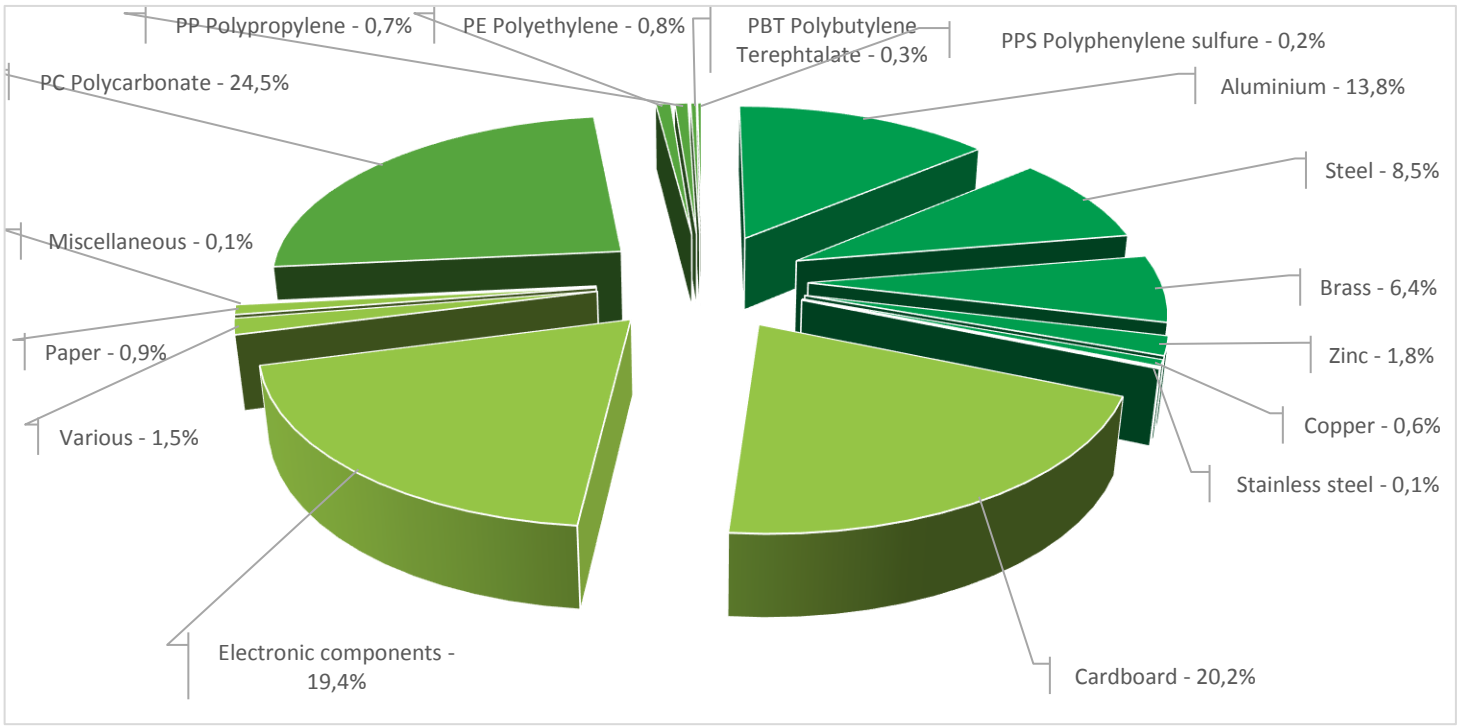
Altivar Process - 2,2 to 15KW / 600V

General information

Representative product	Altivar Process 630 - 7,5KW - 600V - ATV630U75S6X
Description of the product	The main function of the Altivar Process product range is the speed control and variation of a synchronous, asynchronous or reluctance electric motor for fluid management and industrial applications.
Description of the range	Altivar Process - 2,2 to 15KW / 600V The environmental impacts of this referent product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	To adapt the speed and torque of synchronous, asynchronous or reluctance motor to the machine's operating point. Calculation of the environmental impacts is based on 10 years of product service lifetime. The usage profile taken into account is 80% uptime in use phase at 75% loading rate and 20% uptime in stand by phase.

Constituent materials

Reference product mass	8844,3 g	including the product, its packaging and additional elements and accessories



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 Altivar Process 630 - 7,5KW - 600V presents the following relevent environmental aspects

Design	The variable speed drive saves up to 50% energy by optimising the operating cycles of the machines used for fluid applications with Altivar Process.
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 1952,2 g, consisting of cardboard (91%), dessicant dryer (4%), paper (4%) and PE film (1%). 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 This product contains electronic cards (1744 g), cables (200 g), LCD (7 g) and battery (3 g). 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: **63%** 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).

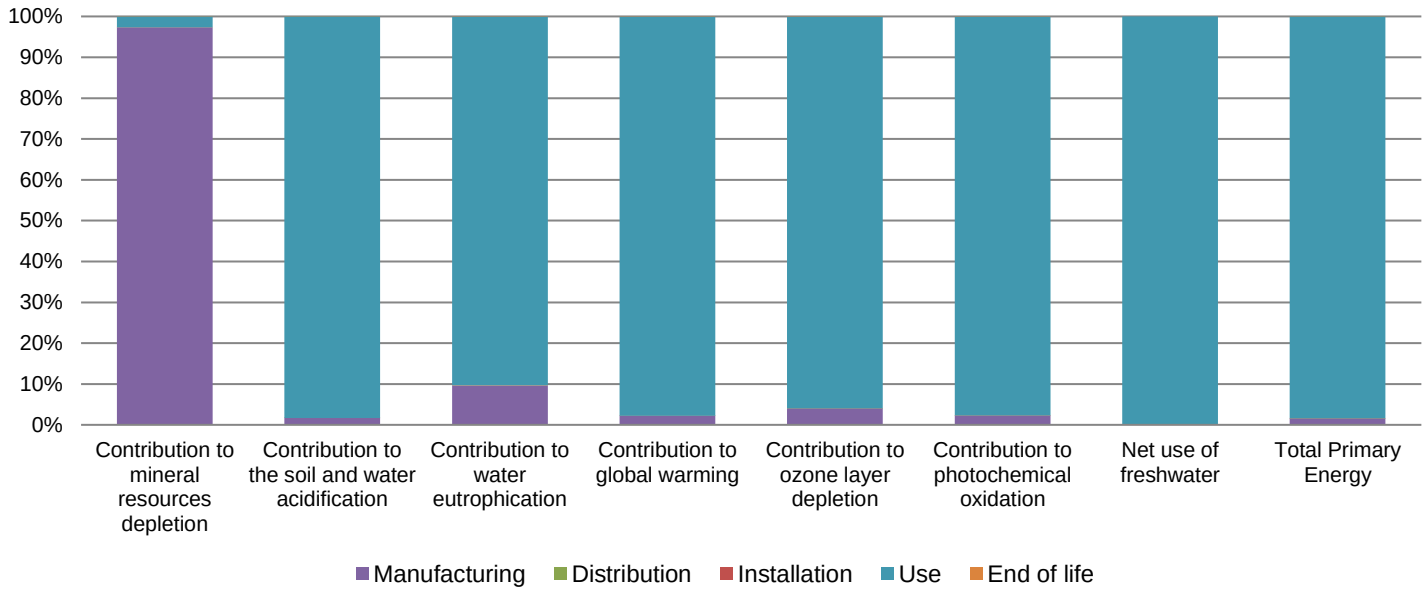
Environmental impacts

Reference life time	10 years
Product category	Active products
Installation elements	No special components needed
Use scenario	Consumed power is 174 W 80 % of the time in Active mode, 32 W 20 % of the time in Standby mode, W 0 % of the time in Sleep mode and W 0 % of the time in Off mode. The product is in active phase 80% of the time at 75% loading rate with a power use of 174 W and in stand-by phase 20% of the time with a power use of 32 W, for 10 years.
Geographical representativeness	Europe
Technological representativeness	The main function of the Altivar Process product range is the speed control and variation of a synchronous, asynchronous or reluctance electric motor for fluid management and industrial applications.

Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: Indonesia	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	**Altivar Process 630 - 7,5KW - 600V - ATV630U75S6X**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2,06E-02	2,00E-02	0*	0*	5,43E-04	0*
Contribution to the soil and water acidification	kg SO_2 eq	2,65E+01	4,35E-01	5,21E-03	0*	2,61E+01	2,71E-03
Contribution to water eutrophication	kg PO_4^{3-} eq	1,74E+00	1,69E-01	1,20E-03	0*	1,57E+00	1,09E-03
Contribution to global warming	kg CO_2 eq	6,40E+03	1,42E+02	1,14E+00	0*	6,25E+03	3,07E+00

Contribution to ozone layer depletion	kg CFC11 eq	4,24E-04	1,70E-05	0*	0*	4,07E-04	1,18E-07
Contribution to photochemical oxidation	kg C_2H_4 eq	1,47E+00	3,34E-02	3,72E-04	0*	1,43E+00	2,53E-04
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2,27E+04	0*	0*	0*	2,27E+04	0*
Total Primary Energy	MJ	1,27E+05	1,98E+03	1,61E+01	0*	1,25E+05	1,28E+01



Optional indicators		**Altivar Process 630 - 7,5KW - 600V - ATV630U75S6X**					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	7,28E+04	1,79E+03	1,60E+01	0*	7,09E+04	1,17E+01
Contribution to air pollution	m³	2,87E+05	1,74E+04	4,85E+01	0*	2,69E+05	8,99E+01
Contribution to water pollution	m³	2,73E+05	1,47E+04	1,88E+02	0*	2,58E+05	3,65E+02
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	9,98E-01	9,98E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,59E+04	7,30E+01	0*	0*	1,59E+04	0*
Total use of non-renewable primary energy resources	MJ	1,11E+05	1,91E+03	1,61E+01	0*	1,09E+05	1,28E+01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,59E+04	3,50E+01	0*	0*	1,59E+04	0*
Use of renewable primary energy resources used as raw material	MJ	3,80E+01	3,80E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,11E+05	1,80E+03	1,61E+01	0*	1,09E+05	1,28E+01
Use of non renewable primary energy resources used as raw material	MJ	1,10E+02	1,10E+02	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	1,26E+02	1,10E+02	0*	2,01E+00	3,26E+00	1,05E+01
Non hazardous waste disposed	kg	2,34E+04	1,09E+02	0*	0*	2,33E+04	0*
Radioactive waste disposed	kg	1,56E+01	4,00E-02	0*	0*	1,56E+01	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	7,41E+00	9,07E-01	0*	1,91E+00	0*	4,60E+00
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	7,07E-01	1,06E-02	0*	0*	0*	6,96E-01
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 2016-11.

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.

According to this environmental analysis, all the impacts (excepted “Mineral resources depletion”) of other products in this family may be proportionally extrapolated by energy consumption values.
For “Mineral resources depletion”, the impacts may be proportionally extrapolated by the products weights.

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°	VH26		
Date of issue	01/2018	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years
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) *PEP are compliant with XP C08-100-1 :2014* *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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