

Product Environmental Profile

ATV930 IP21 315KW 400V/480V 3PH W/O BRAKING

Altivar Process





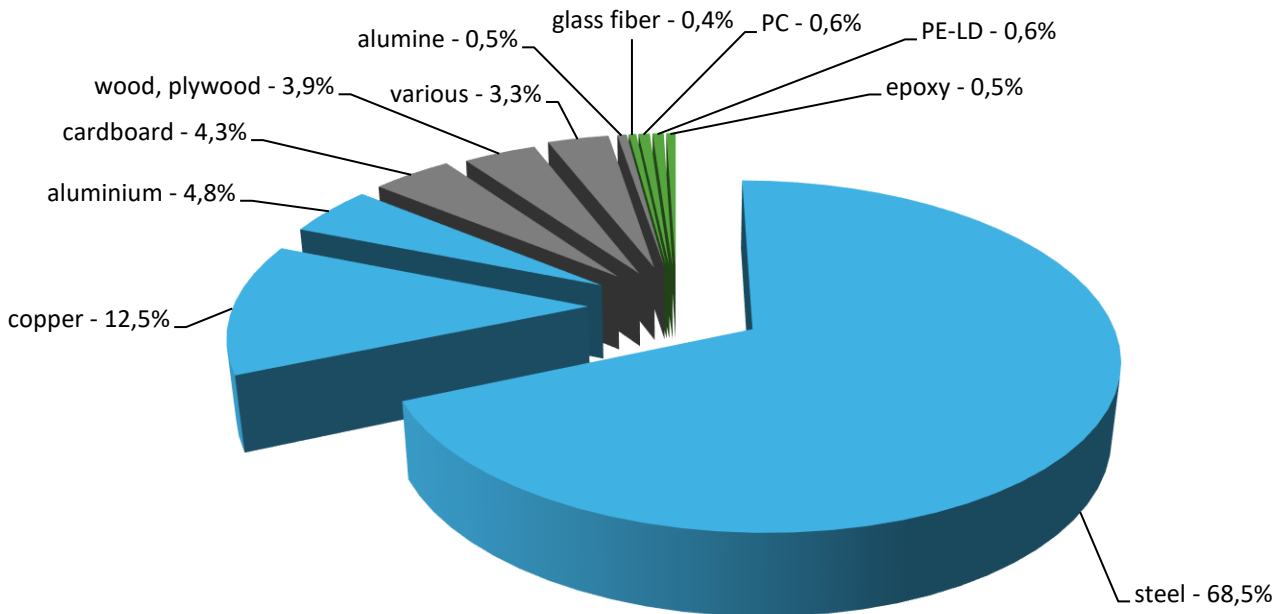
General information

Representative product	ATV930 IP21 315KW 400V/480V 3PH W/O BRAKING - ATV930C31N4C
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	<p>This range consists of products Altivar 630, Altivar 930 and Altivar 955 with ratings from 220 to 315 kW for operation on 400V/480V, 3-phase supplies IP21.</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 control the speed and variate of asynchronous or reluctance electric motor for fluid management and industrial applications during 10 years and a 80% use rate, in accordance with the relevant standards.



Constituent materials

Reference product mass 222 Kg 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

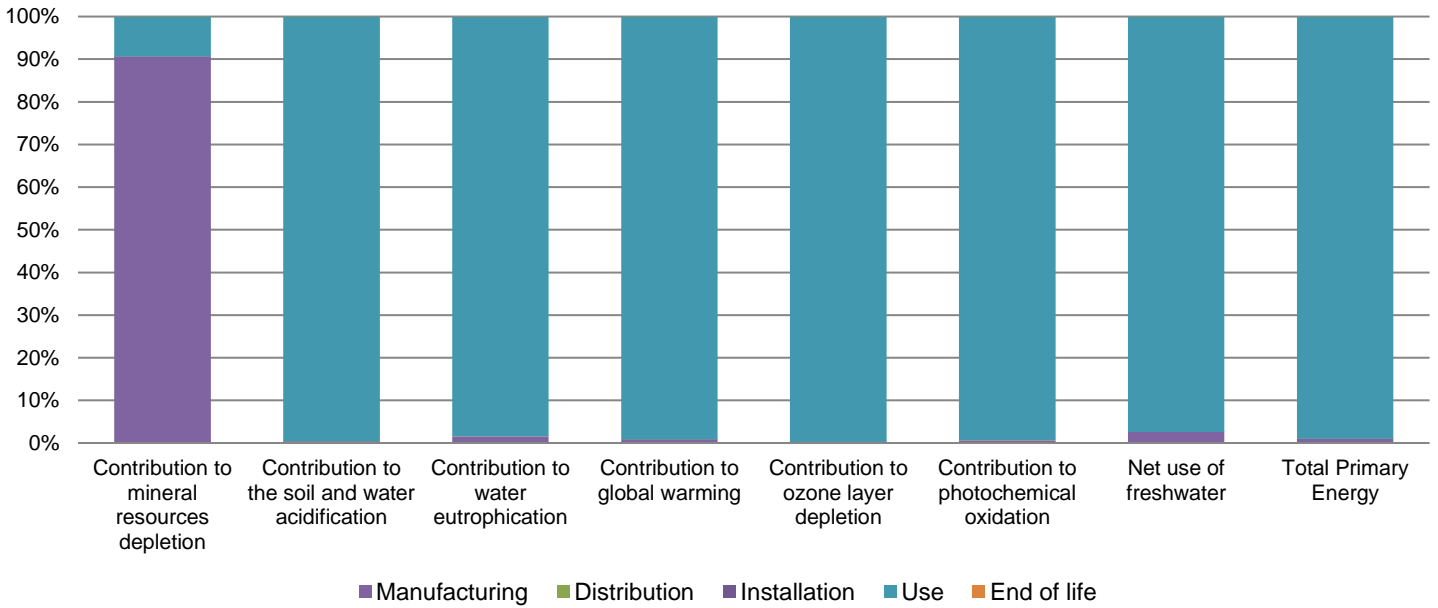
The ATV930 IP21 315KW 400V/480V 3PH W/O BRAKING presents the following relevant environmental aspects

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 19135 g, consisting of cardboard (44.81%), paper (0.50%), paper packaging label (1.62%), PE bag + PE wedge (8.15%), wood pallet (44.45%) and dessicant (2.09%). Product distribution optimised by setting up local distribution centres
Installation	The product does not require any installation operation.
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 (14492g), Electrolyte capacitors (1920g), Battery (2.9 g), Cable (431.8g) and LCD (6.7g) 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: 87% 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	The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).		
Use scenario	The product is in active mode 80% of the time with a power use of 7868W, in stand-by mode 20% of the time with a power use of 182W, for 10 years.		
Geographical representativeness	Worldwide		
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
	Energy model used: China	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

Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1,60E-01	1,45E-01	0*	0*	1,49E-02	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2,49E+03	1,04E+01	0*	0*	2,48E+03	0*
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	9,43E+01	1,45E+00	3,01E-02	0*	9,28E+01	1,89E-02
Contribution to global warming	kg CO ₂ eq	3,30E+05	2,80E+03	0*	0*	3,27E+05	3,94E+01
Contribution to ozone layer depletion	kg CFC11 eq	7,97E-02	1,95E-04	0*	0*	7,95E-02	0*
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1,18E+02	7,78E-01	0*	0*	1,17E+02	0*
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	8,76E+02	2,24E+01	0*	0*	8,54E+02	0*
Total Primary Energy	MJ	5,71E+06	5,65E+04	0*	0*	5,65E+06	0*



Optional indicators		ATV930 IP21 315KW 400V/480V 3PH W/O BRAKING - ATV930C31N4C					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3,41E+06	3,26E+04	4,03E+02	0*	3,37E+06	0*
Contribution to air pollution	m ³	1,45E+07	4,12E+05	0*	0*	1,40E+07	2,19E+03
Contribution to water pollution	m ³	1,40E+07	2,31E+05	4,71E+03	0*	1,37E+07	3,32E+03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	6,47E+01	6,47E+01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	4,76E+05	1,54E+03	0*	0*	4,75E+05	0*
Total use of non-renewable primary energy resources	MJ	5,23E+06	5,49E+04	0*	0*	5,17E+06	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4,76E+05	1,18E+03	0*	0*	4,75E+05	0*
Use of renewable primary energy resources used as raw material	MJ	3,62E+02	3,62E+02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5,23E+06	5,47E+04	0*	0*	5,17E+06	0*
Use of non renewable primary energy resources used as raw material	MJ	2,63E+02	2,63E+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	4,51E+03	4,25E+03	0*	2,66E+01	0*	2,40E+02
Non hazardous waste disposed	kg	1,23E+06	5,97E+03	0*	0*	1,22E+06	0*
Radioactive waste disposed	kg	9,99E+02	3,94E-01	0*	0*	9,98E+02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life

Materials for recycling	kg	2,09E+02	2,62E+01	0*	1,17E+01	0*	1,71E+02
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,13E+01	5,02E+00	0*	0*	0*	6,30E+00
Exported Energy	MJ	1,02E+01	1,02E+01	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.

The mineral resources depletion of the product of the family maybe proportional extrapolated by mass of product. And the other environmental indicators of the range may be proportional extrapolated by power consumption 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.

Registration N°	ENVPEP1607002_V2	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	04/2017		
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			

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