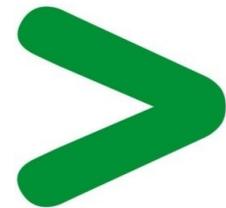


Product Environmental Profile

**VARIABLE SPEED DRIVE ATV320 0,75KW 200V/240V 1 PH
COMPACT CONTROL**

Altivar Machine ATV320

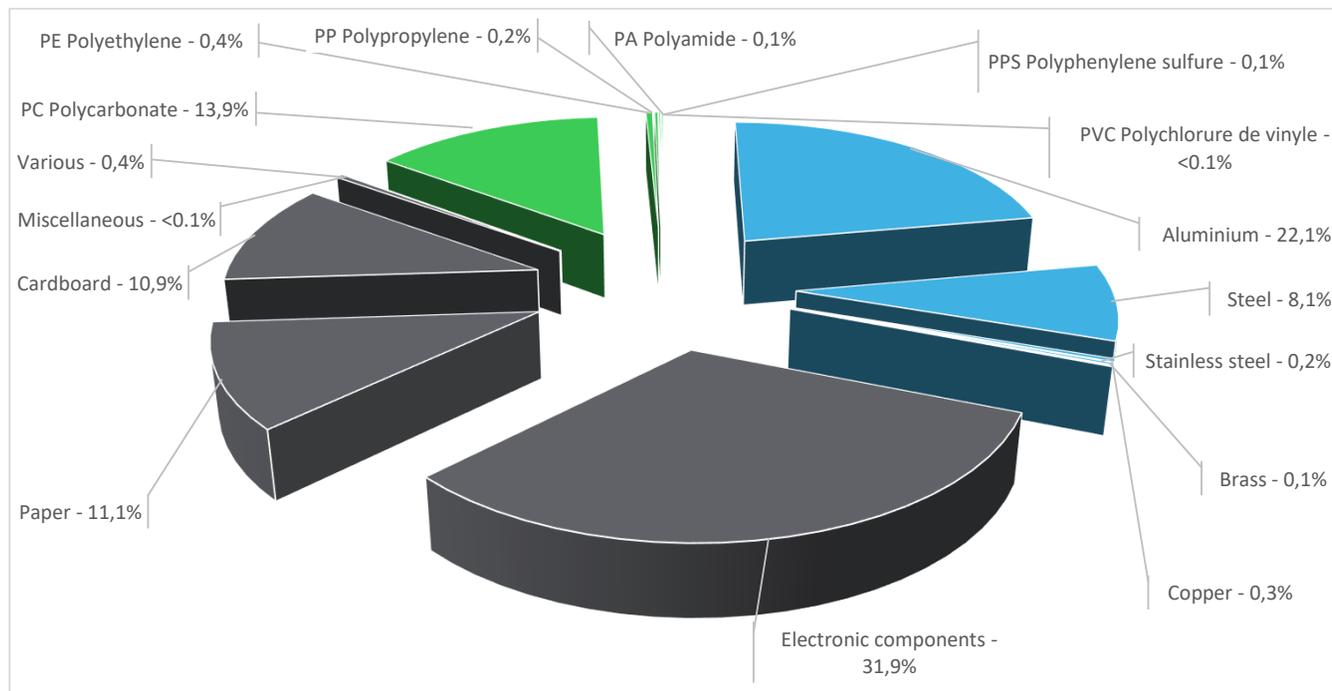


📄 General information

Representative product	VARIABLE SPEED DRIVE ATV320 0,75KW 200V/240V 1 PH COMPACT CONTROL - ATV320U07M2C
Description of the product	The main function of the Altivar Machine 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 Machine ATV320, a variable speed drive designed for Original Equipment Manufacturers (OEMs) that meets simple and advanced application requirements for 3 Phase synchronous and asynchronous motors from 0.18 to 15 kW (0.25 to 20 Hp)</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 adapt the speed and torque of synchronous, asynchronous or reluctance motor to the machine's operating point for 0,75 kW for heavy duty electric motors for fluid management and industrial applications in IP21/UL type 1 conditions, at 200V to 240V rated 1-phase voltage supply. 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	1,49 kg including the product, its packaging and additional elements and accessories
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	Plastics	15%
	Metals	31%
	Others	54%

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

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

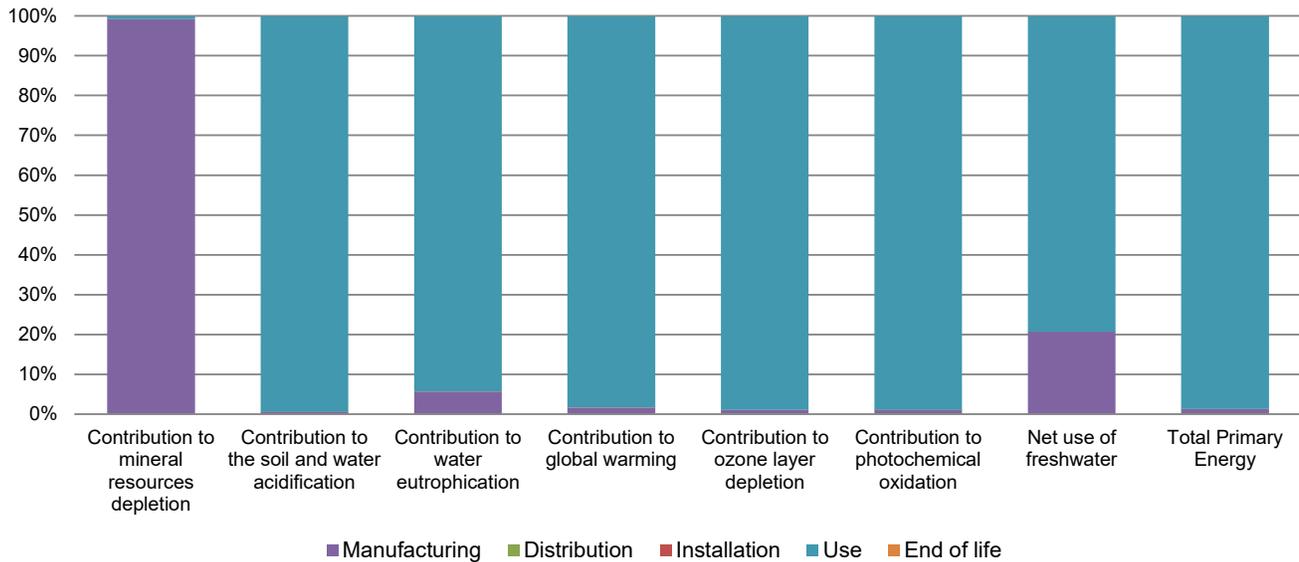
The VARIABLE SPEED DRIVE ATV320 0,75KW 200V/240V 1 PH COMPACT CONTROL presents the following relevant environmental aspects

Design	The variable speed drive saves up to 50% energy by optimising the operating cycles of the machines used for fluid applications with Altivar Machine.
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 386,5 g, consisting of It consists of recyclable cardboard (39,3%), paper (39,8%), steel (20,3%) and polyethylene film (0,6%). 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 cards (269,42 g), cables (47,956 g), Electrolyte capacitors (121 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: 56% 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	Other equipments - Active product			
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 phase 80% of the time at 75% loading rate with a power use of 34 W and in stand-by phase 20% of the time with a power use of 6 W, for 10 years.			
Geographical representativeness	Europe			
Technological representativeness	The main function of the Altivar Machine 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 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		VARIABLE SPEED DRIVE ATV320 0,75KW 200V/240V 1 PH COMPACT CONTROL - ATV320U07M2C					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	8,43E-03	8,36E-03	0*	0*	6,69E-05	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1,12E+01	6,39E-02	0*	0*	1,11E+01	0*
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	4,42E-01	2,49E-02	1,86E-04	0*	4,16E-01	1,89E-04
Contribution to global warming	kg CO ₂ eq	1,50E+03	2,57E+01	1,77E-01	0*	1,47E+03	5,37E-01
Contribution to ozone layer depletion	kg CFC11 eq	3,61E-04	3,92E-06	0*	0*	3,57E-04	0*
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	5,31E-01	5,93E-03	5,76E-05	0*	5,25E-01	0*
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	4,83E+00	1,00E+00	0*	0*	3,83E+00	0*
Total Primary Energy	MJ	3,01E+04	3,83E+02	0*	0*	2,98E+04	0*



Optional indicators		VARIABLE SPEED DRIVE ATV320 0,75KW 200V/240V 1 PH COMPACT CONTROL - ATV320U07M2C					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,54E+04	2,77E+02	2,48E+00	0*	1,51E+04	1,76E+00
Contribution to air pollution	m ³	6,59E+04	2,91E+03	7,51E+00	0*	6,30E+04	1,51E+01
Contribution to water pollution	m ³	6,41E+04	2,37E+03	2,91E+01	0*	6,16E+04	7,73E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4,44E-02	4,44E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,14E+03	1,35E+01	0*	0*	2,13E+03	0*
Total use of non-renewable primary energy resources	MJ	2,80E+04	3,69E+02	0*	0*	2,76E+04	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,14E+03	7,87E+00	0*	0*	2,13E+03	0*
Use of renewable primary energy resources used as raw material	MJ	5,64E+00	5,64E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,80E+04	3,58E+02	0*	0*	2,76E+04	0*
Use of non renewable primary energy resources used as raw material	MJ	1,18E+01	1,18E+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	1,33E+02	1,31E+02	0*	0*	0*	1,89E+00
Non hazardous waste disposed	kg	5,50E+03	7,59E+00	0*	0*	5,49E+03	0*
Radioactive waste disposed	kg	4,48E+00	4,59E-03	0*	0*	4,48E+00	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	9,57E-01	5,83E-02	0*	3,33E-01	0*	5,66E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,19E-01	0*	0*	0*	0*	1,19E-01
Exported Energy	MJ	9,58E-04	8,26E-05	0*	8,75E-04	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.3, 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.

To extrapolate the impact to another product from the range, apply the following extrapolation rules to each indicator per life cycle stage:

MANUFACTURING(i) = Mass of (product+packaging) in grams / Mass of (reference product+reference packaging) in grams

DISTRIBUTION (i) = Mass of (product+packaging) in grams / Mass of (reference product+reference packaging) in grams

INSTALLATION (i) = Mass of (packaging) in grams / Mass of (reference packaging) in grams

USE (i) = Power dissipated in Watts / Power dissipated of the reference product in Watts

END OF LIFE (i) = Mass of (product) in grams / Mass of (reference product) in grams

TOTAL (i) = Σ Life Cycle Stages (i)

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 :	SCHN-00754-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH39	Information and reference documents	www.pep-ecopassport.org
Date of issue	03/2022		
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 :2016			
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 »			



Schneider Electric Industries SAS

Country Customer Care Center
<http://www.se.com/contact>

35, rue Joseph Monier
 CS 30323
 FR- 92500 Rueil Malmaison Cedex
 RCS Nanterre 954 503 439
 Capital social 896 313 776 €

www.schneider-electric.com

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