## **Product Environmental Profile**

ATV320 1,5kW 400V 3ph with vario IP65

**Altivar Machine ATV320** 





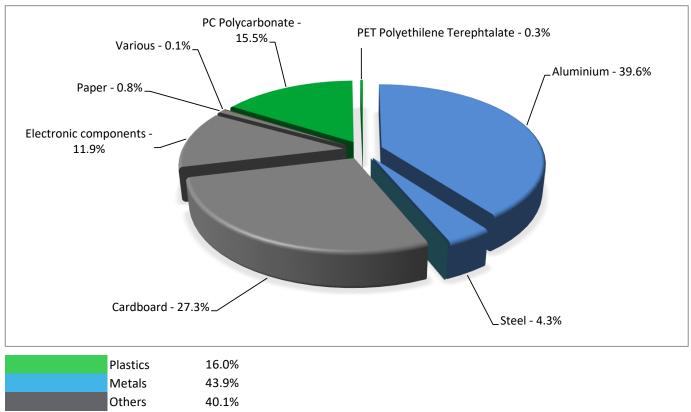


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Gen الله الله الله الله الله الله الله الل	eral information					
Representative product	ATV320 1,5kW 400V 3ph with vario IP65 - ATV320U15N4WS					
Description of the product	The Altivar Machine ATV320 IP65 drive is a variable speed for three-phase asynchronous and synchronous motors. It can control the speed and torque of an electric motor for general application					
Description of the range	range name: Altivar Machine ATV320 The technical criteria of the range is as follows: -Variable speed drive -Product specific application: Complex machines -IP66 drive without Vario and IP65 drive with Vario -Synchronous motors -Asynchronous motors -Voltage: 380500 V -Range power kW: 1.52.2 kW at 380500 V, 3 phases (based on load duty) -Range phase ATV320 - 0.37kW - 1.5kW 3PH 200V and 1.1kW - 2.2kW 1PH 200V COMPACT CONTROL The environmental impacts of this referenced product are representative of the impacts of the other					
Functional unit	To control the speed and torque of synchronous or asynchronous electric motor for general application during 10 years and a 46% use rate, in accordance with the relevant standards IP degree of protection: IP65 conforming to EN/IEC 61800-5-1 rated supply voltage:380500 V motor power kW:1.5 kW for heavy duty motor power hp:2.0 hp for heavy duty line current:6.4 A at 380 V for heavy duty and 4.9 A at 500 V for heavy duty					

## Constituent materials

Reference product mass 8900 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 EU 2015/863) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE, Bis(2-ethylhexyl) phthalate -DEHP, Butyl benzyl phthalate -BBP, Dibutyl phthalate – DBP, Diisobutyl phthalate - DIBP) 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 ATV320 1,5kW 400V 3ph with vario IP65 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 2500 g, consisting of cardboard (97.24%), Paper (2.76%)									
Installation	Products	in this range do n	ot require any	installation of	perations.					
Use	The product does not require special maintenance operations.									
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials									
End of life	This product contains Electronic card (210.01g)(it contains Communication PCBA 70.40g, Power PCBA 139.61g) Electronia capacitor(116.42g) Cable (737.77g) Dismantling parts(PC 1299.62g, Heatsink 3532.37g, steel parts 335.22g) 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						nent which			
						oolaroon nror	mium/aroon r	romium no		
http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-prem					, ,					
	Based on "ECO'DEEE recyclability and recoverability calculation Recyclability potential: 81% (version V1, 20 Sep. 2008 presented to the French Agency for Er and Energy Management: ADEME).									
Environmental impacts										
Reference life	e life time 10 years									
Product cate	gory	Other equipments	- Active prod	uct						
Installation ele	ntion elements No special components needed									
Use scenar	The product is in active mode 46% of the time with a power use of 60.9W and in stand-by mode 54% of time with a power use of 0.0W, for 10 years.				4% of the					
	Geographical Worldwide resentativeness									
Technologi representative		The Altivar Machi motors. It can cor						ous and syn	chronous	
		Manufacturing		Installation		Use		End of life		
Energy model used		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		
	Compulso	ry indicators		ATV320 1,5k	W 400V 3ph with	vario IP65 - AT	V320U15N4W	/S		
Impact indicators			Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to mineral resources depletion kg Sb eq		3.72E-03	3.66E-03	0*	0*	6.60E-05	0*			
		kg SO <sub>2</sub> eq	1.13E+01	3.52E-01	5.24E-03	0*	1.10E+01	2.32E-03		
Contribution to water	•	on	kg PO <sub>4</sub> <sup>3-</sup> eq	5.24E-01	1.11E-01	1.21E-03	1.37E-04	4.11E-01	6.96E-04	
Contribution to global warming kg CO <sub>2</sub> eq 1.51E+03 5.62E+01 1.15E+00 0* 1.45E+03 1				1.63E+00						
Contribution to ozone	Contribution to ozone layer depletion		kg CFC11 eq	3.60E-04	8.30E-06	0*	0*	3.52E-04	8.10E-08	

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2.15E-02

3.74E-04

5.18E-01

2.47E-04

5.40E-01

kg C<sub>2</sub>H<sub>4</sub> eq

Contribution to photochemical oxidation



Optional indicators		ATV320 1,5kW 400V 3ph with vario IP65 - ATV320U15N4WS					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.55E+04	5.73E+02	1.61E+01	1.75E+00	1.49E+04	9.39E+00
Contribution to air pollution	m³	6.80E+04	5.74E+03	4.88E+01	0*	6.21E+04	8.48E+01
Contribution to water pollution	m³	6.96E+04	7.76E+03	1.89E+02	2.05E+01	6.08E+04	8.81E+02
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.00E+00	2.00E+00	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.15E+03	4.71E+01	0*	0*	2.10E+03	0*
Total use of non-renewable primary energy resources	MJ	2.81E+04	8.65E+02	1.62E+01	0*	2.73E+04	1.27E+01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.10E+03	0*	0*	0*	2.10E+03	0*
Use of renewable primary energy resources used as raw material	MJ	4.96E+01	4.96E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.81E+04	7.98E+02	1.62E+01	0*	2.73E+04	1.27E+01
Use of non renewable primary energy resources used as raw material	MJ	6.69E+01	6.69E+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	2.42E+01	1.55E+01	0*	0*	0*	8.71E+00
Non hazardous waste disposed	kg	5.56E+03	1.36E+02	0*	0*	5.42E+03	0*
Radioactive waste disposed	kg	4.47E+00	5.51E-02	0*	0*	4.42E+00	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	8.42E+00	7.10E-01	0*	2.49E+00	0*	5.22E+00
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.10E-01	0*	0*	0*	0*	1.10E-01
Exported Energy	MJ	7.84E-03	6.74E-04	0*	7.16E-03	0*	0*

<sup>\*</sup> represents less than 0.01% of the total life cycle of the reference flow

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Life cycle assessment performed with EIME version EIME v5.8.1, 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.

According to the EMIE result, using phase has the greatest impact on the majority of environmental indicators:

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

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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Date of issue	05/2020	Supplemented by	PSR-0005-ed2-EN-2016 03 29
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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