

# Product Environmental Profile

**ATV340 22kW 3PH 400V**

**ATV340 – 11kW - 15kW - 18.5kW - 22kW 3PH 400V**





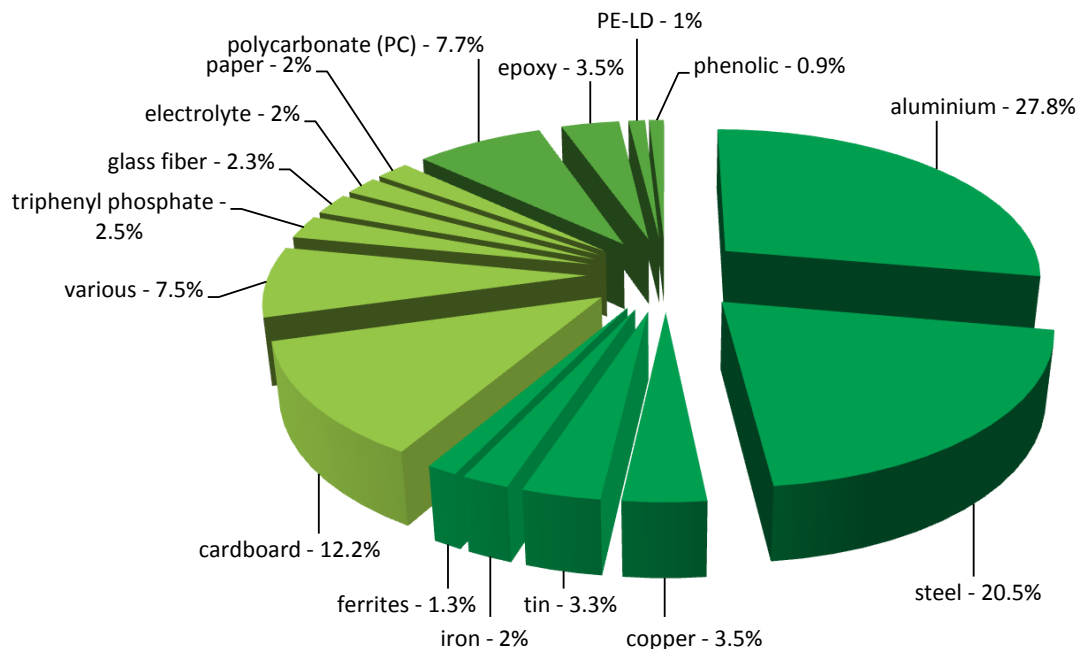
## General information

<b>Representative product</b>	ATV340 22kW 3PH 400V -ATV340D22N4
<b>Description of the product</b>	The main function of ATV340 is the speed control and torque of a three phase motors (Asynchronous and Permanent Magnet motors) in energy management for machines application.
<b>Description of the range</b>	ATV340 – 11kW - 15kW - 18.5kW - 22kW 3PH 400V  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.
<b>Functional unit</b>	To control the speed and torque of a three phase motors (Asynchronous and Permanent Magnet motors) in energy management for machines application. Calculation of the environmental impacts is based on 10 years of product service lifetime. The usage profile taken into account is 40% uptime in use phase at 100% loading rate and 60% uptime in stand by phase.



## Constituent materials

**Reference product mass** 12020 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 ATV340 22kW 3PH 400V presents the following relevant environmental aspects

<b>Design</b>	Products are designed to be "Green Premium".
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 1662.5 g, consisting of cardboard (88.45%), paper (4.21%), packaging label (0.12%) , plastic foam (7.22%)  Product distribution optimised by setting up local distribution centres
<b>Installation</b>	Does not require any special installation operations
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  This product contains Electronic card (2582.2g) Electronic capacitor (955.8g) Cable (121.9g) 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 <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>  Recyclability potential: <b>64%</b> 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

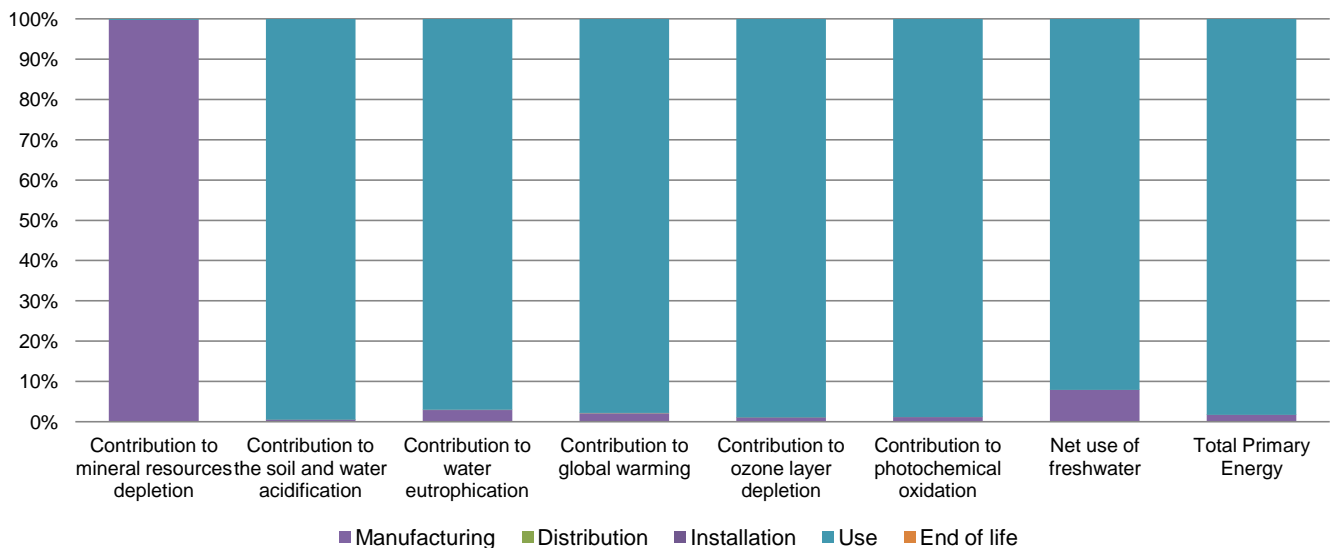
<b>Reference life time</b>	10 years
<b>Product category</b>	Active products
<b>Installation elements</b>	No special components needed
<b>Use scenario</b>	Consumed power is 670 W 40 % of the time in Active mode, 39 W 60 % of the time in Standby mode, 0 W 0 % of the time in Sleep mode and 0 W 0 % of the time in Off mode.  The product is in active mode 40% of the time with a power use of 670W and in stand-by mode 60% of the time with a power use of 39W, for 10 years.
<b>Geographical representativeness</b>	Worldwide

<b>Technological representativeness</b>	The main function of ATV340 is the speed control and torque of a three phase motors (Asynchronous and Permanent Magnet motors) in energy management for machines application.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	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		ATV340 22kW 3PH 400V - ATV340D22N4					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2,66E-01	2,66E-01	0*	0*	6,87E-04	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	1,15E+02	6,14E-01	0*	0*	1,14E+02	0*
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	4,40E+00	1,28E-01	1,63E-03	0*	4,27E+00	1,77E-03
Contribution to global warming	kg CO <sub>2</sub> eq	1,54E+04	3,29E+02	1,55E+00	0*	1,51E+04	4,85E+00
Contribution to ozone layer depletion	kg CFC11 eq	3,70E-03	4,02E-05	0*	0*	3,66E-03	0*
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	5,45E+00	6,39E-02	0*	0*	5,39E+00	0*

Resources use		ATV340 22kW 3PH 400V - ATV340D22N4					
	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	4,27E+01	3,36E+00	0*	0*	3,93E+01	0*
Total Primary Energy	MJ	3,11E+05	5,26E+03	0*	0*	3,05E+05	0*



Optional indicators		ATV340 22kW 3PH 400V - ATV340D22N4					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,59E+05	3,83E+03	2,18E+01	0*	1,55E+05	1,92E+01
Contribution to air pollution	m <sup>3</sup>	6,78E+05	3,19E+04	0*	0*	6,46E+05	1,44E+02
Contribution to water pollution	m <sup>3</sup>	6,66E+05	3,25E+04	2,55E+02	0*	6,32E+05	3,80E+02

Resources use		ATV340 22kW 3PH 400V - ATV340D22N4					
	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2,91E+02	2,91E+02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,20E+04	1,59E+02	0*	0*	2,18E+04	0*
Total use of non-renewable primary energy resources	MJ	2,89E+05	5,10E+03	0*	0*	2,83E+05	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,20E+04	1,27E+02	0*	0*	2,18E+04	0*

Use of renewable primary energy resources used as raw material	MJ	3,15E+01	3,15E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,89E+05	5,02E+03	0*	0*	2,83E+05	0*
Use of non renewable primary energy resources used as raw material	MJ	8,23E+01	8,23E+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*
<b>Waste categories</b>	<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Hazardous waste disposed	kg	4,76E+02	4,57E+02	0*	1,76E+00	0*	1,78E+01
Non hazardous waste disposed	kg	5,65E+04	8,12E+01	0*	0*	5,64E+04	0*
Radioactive waste disposed	kg	4,60E+01	3,87E-02	0*	0*	4,60E+01	0*
<b>Other environmental information</b>	<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Materials for recycling	kg	9,43E+00	1,16E+00	0*	1,57E+00	0*	6,70E+00
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,21E+00	8,31E-02	0*	0*	0*	1,13E+00
Exported Energy	MJ	2,86E-04	2,86E-04	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.

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°	ENVPEP1609006_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	09/2016		
Validity period	5 years	Information and reference	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	X	External	
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

Customer Care Center  
[www.schneider-electric.com/contact](http://www.schneider-electric.com/contact)  
 35, rue Joseph Monier  
 CS 30323  
 F- 92506 Rueil Malmaison Cedex  
 RCS Nanterre 954 503 439  
 Capital social 896 313 776 €

[www.schneider-electric.com](http://www.schneider-electric.com)

ENVPEP1609006\_V1

Published by Schneider Electric

© 2016 - Schneider Electric – All rights reserved

09/2016