Product Environmental Profile

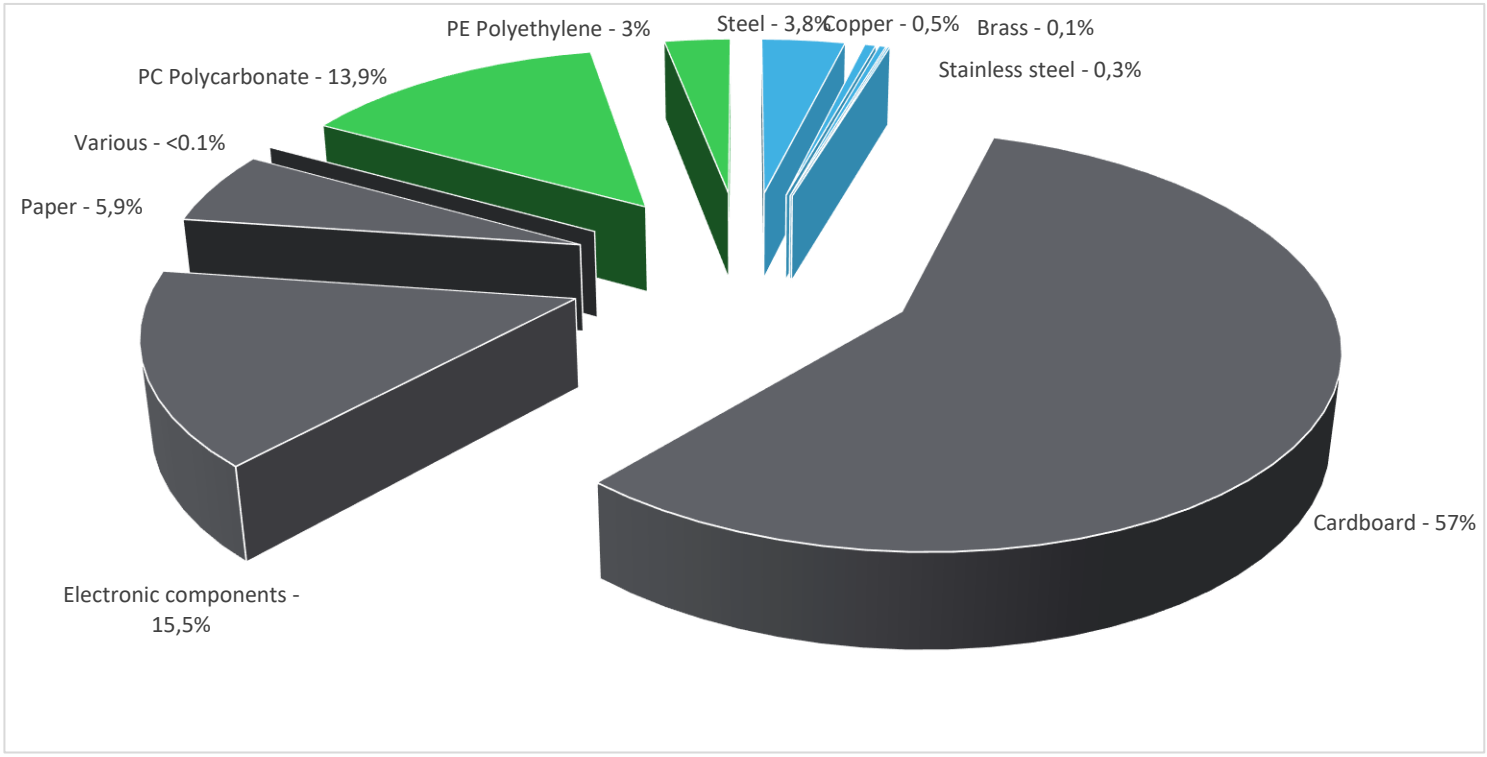
ATV IMC drive controller card type G generic

General information

Representative product	ATV IMC drive controller card type G generic - VW3A3521
Description of the product	ATV IMC drive controller is a controller card for Altivar 61 and Altivar 71 variable speed drives to be configured and programmed with SoMachin software. Equipped with the ATV IMC card, these Altivar 61 and 71 variable speed drives become controllers and meet the needs of machine builders (OEMs), oriented among other things towards machines for textiles, lifting, pumping or woodworking ... The Altivar IMC VW3A3521 integrated controller card strengthens the machine's expansion capabilities and meets the requirements of the manufacturers' market in terms of performance, ease of use and openness.
Functional unit	Quickly interact with the drive and option cards of other drives as well as adapt the variable speed drive to specific applications for 10 years

Constituent materials

Reference product mass	589 g	including the product, its packaging and additional elements and accessories



	Plastics	16,9%
	Metals	4,7%
	Others	78,4%

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 ATV IMC drive controller card type G generic presents the following relevent environmental aspects	
Design	Indicate all the eco-design improvements brought to the product at the design phase compared to previous offer range, refer to ecoDesign Way results
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 398,6 g, consisting of cardboard (87%), paper (9%), plastique (4%)
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 PCBA (96,70 g) and Batteries (2,2 g) that should be separated from the stream of waste so as to optimize end-of-life treatment. No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process. Recyclability potential: **19%** 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).

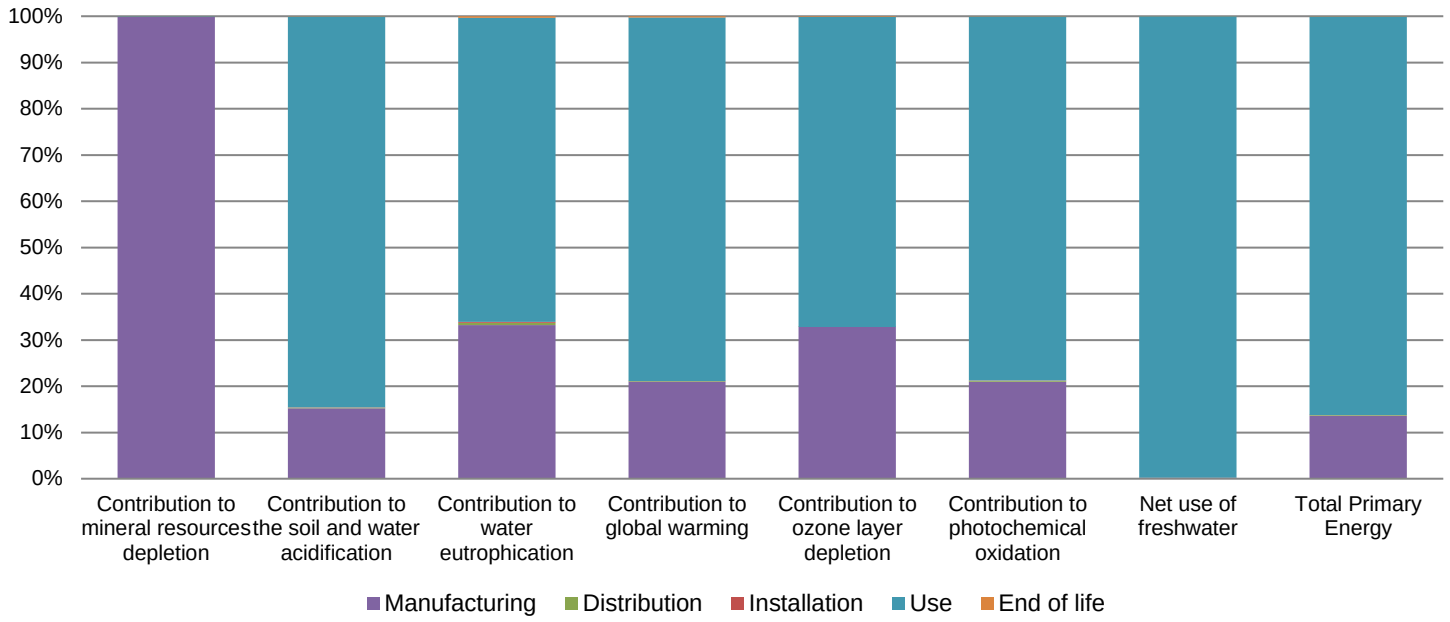
Environmental impacts

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	This product consumes 1W 100% of the time during 10 years.
Geographical representativeness	Europe
Technological representativeness	ATV IMC drive controller is a controller card for Altivar 61 and Altivar 71 variable speed drives to be configured and programmed with SoMachin software. Equipped with the ATV IMC card, these Altivar 61 and 71 variable speed drives become controllers and meet the needs of machine builders (OEMs), oriented among other things towards machines for textiles, lifting, pumping or woodworking ... The Altivar IMC VW3A3521 integrated controller card strengthens the machine's expansion capabilities and meets the requirements of the manufacturers' market in terms of performance, ease of use and openness.

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		ATV IMC drive controller card type G generic - VW3A3521					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3,98E-03	3,97E-03	0*	0*	3,73E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	2,12E-01	3,23E-02	3,47E-04	9,29E-05	1,79E-01	1,05E-04
Contribution to water eutrophication	kg PO_4^{3-} eq	1,64E-02	5,46E-03	7,99E-05	2,78E-05	1,08E-02	5,16E-05
Contribution to global warming	kg CO_2 eq	5,46E+01	1,14E+01	7,60E-02	2,24E-02	4,29E+01	1,61E-01
Contribution to ozone layer depletion	kg CFC11 eq	4,17E-06	1,37E-06	0*	0*	2,80E-06	5,66E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	1,25E-02	2,63E-03	2,48E-05	6,96E-06	9,84E-03	8,72E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1,56E+02	3,32E-01	0*	0*	1,56E+02	0*

Total Primary Energy	MJ	9,95E+02	1,36E+02	1,07E+00	2,89E-01	8,57E+02	4,49E-01



Optional indicators		ATV IMC drive controller card type G generic - VW3A3521					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	5,91E+02	1,02E+02	1,07E+00	2,86E-01	4,87E+02	3,66E-01
Contribution to air pollution	m³	2,91E+03	1,05E+03	3,23E+00	1,02E+00	1,85E+03	3,31E+00
Contribution to water pollution	m³	3,31E+03	1,52E+03	1,25E+01	3,34E+00	1,77E+03	6,94E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3,35E-01	3,35E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,14E+02	5,44E+00	0*	0*	1,09E+02	0*
Total use of non-renewable primary energy resources	MJ	8,80E+02	1,30E+02	1,07E+00	2,89E-01	7,48E+02	4,49E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,13E+02	3,80E+00	0*	0*	1,09E+02	0*
Use of renewable primary energy resources used as raw material	MJ	1,64E+00	1,64E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	8,76E+02	1,26E+02	1,07E+00	2,89E-01	7,48E+02	4,49E-01
Use of non renewable primary energy resources used as raw material	MJ	4,61E+00	4,61E+00	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	4,20E+01	4,15E+01	0*	0*	2,24E-02	4,68E-01
Non hazardous waste disposed	kg	1,67E+02	6,83E+00	0*	1,72E-02	1,60E+02	0*
Radioactive waste disposed	kg	1,09E-01	2,46E-03	0*	0*	1,07E-01	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4,75E-01	5,09E-02	0*	3,84E-01	0*	3,99E-02
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4,37E-02	0*	0*	0*	0*	4,37E-02
Exported Energy	MJ	1,20E-03	1,13E-04	0*	1,09E-03	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2018-11 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).

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	ENVPEP2010008_V1	*Drafting rules*	PCR-ed3-EN-2015 04 02
Date of issue	12/2020	*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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