

Product Environmental Profile

Controller inside programmable card - 24 V DC - for Altivar variable speed drive





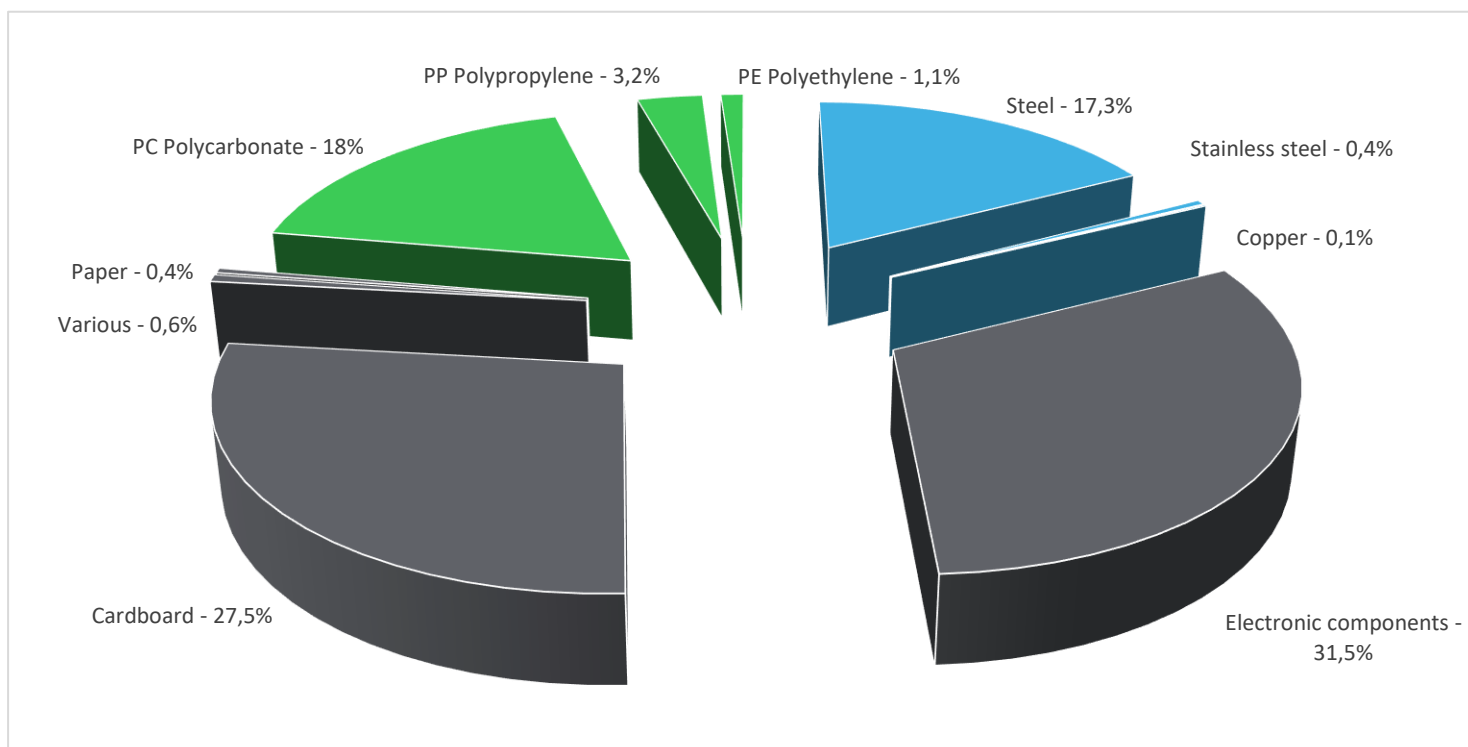
General information

Representative product	Controller inside programmable card - 24 V DC - for Altivar variable speed drive - VW3A3501
Description of the product	The installation of I/O expansion boards allows Altivar 71 drives to be adapted to more complex or extensive applications.
Functional unit	Program and control the variable speed drive for 10 years.



Constituent materials

Reference product mass 470 g including the product, its packaging and additional elements and accessories



Plastics	22,3%
Metals	17,8%
Others	60,0%



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 Controller inside programmable card - 24 V DC - for Altivar variable speed drive presents the following relevant environmental aspects

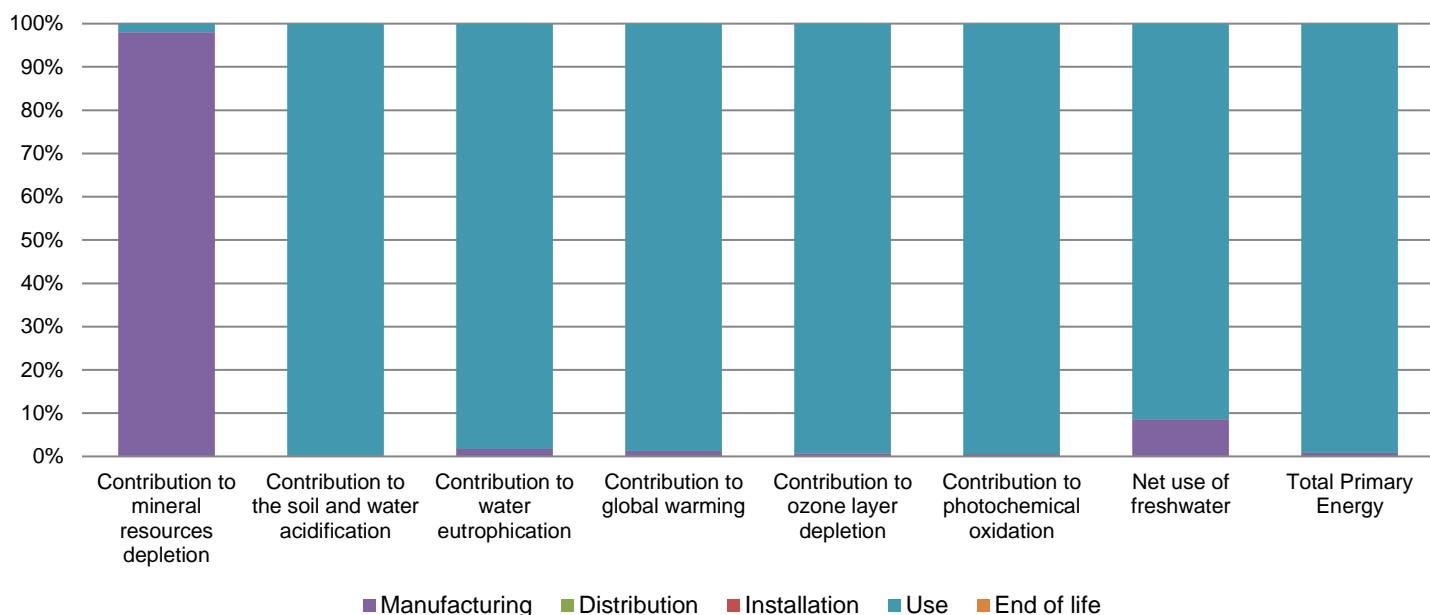
Design	Indicate all the eco-design improvements brought to the product at the design phase compared to previous offer range, refer to ecoDesign Way results
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 152,2 g, consisting of Paper and cardboard (85,5) and plastic (14,5%)
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 (149 g) that should be separated from the stream of waste so as to optimize end-of-life treatment. Recyclability potential: 31% 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 48W 100% of the time during 10 years.
Geographical representativeness	Europe
Technological representativeness	The installation of I/O expansion boards allows Altivar 71 drives to be adapted to more complex or extensive applications.
Energy model used	Manufacturing
	Energy model used: Indonesia
	Installation
	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27
	Use
	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27
	End of life
	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		Controller inside programmable card - 24 V DC - for Altivar variable speed drive - VW3A3501					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	5,82E-03	5,71E-03	0*	0*	1,13E-04	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1,88E+01	5,17E-02	0*	0*	1,88E+01	0*
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	7,16E-01	1,22E-02	0*	0*	7,04E-01	8,02E-05
Contribution to global warming	kg CO ₂ eq	2,52E+03	3,32E+01	0*	0*	2,48E+03	0*
Contribution to ozone layer depletion	kg CFC11 eq	6,07E-04	4,23E-06	0*	0*	6,03E-04	0*
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	8,92E-01	4,81E-03	0*	0*	8,87E-01	0*
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	7,09E+00	6,10E-01	0*	0*	6,48E+00	0*
Total Primary Energy	MJ	5,07E+04	4,08E+02	0*	0*	5,03E+04	0*

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Optional indicators		Controller inside programmable card - 24 V DC - for Altivar variable speed drive - VW3A3501						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	2,59E+04	3,36E+02	0*	0*	2,56E+04	0*	
Contribution to air pollution	m³	1,09E+05	2,63E+03	0*	0*	1,06E+05	0*	
Contribution to water pollution	m³	1,07E+05	3,12E+03	0*	0*	1,04E+05	1,08E+01	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	1,25E-01	1,25E-01	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	3,61E+03	1,36E+01	0*	0*	3,60E+03	0*	
Total use of non-renewable primary energy resources	MJ	4,71E+04	3,95E+02	0*	0*	4,67E+04	0*	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3,61E+03	1,33E+01	0*	0*	3,60E+03	0*	
Use of renewable primary energy resources used as raw material	MJ	3,34E-01	3,34E-01	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4,71E+04	3,89E+02	0*	0*	4,67E+04	0*	
Use of non renewable primary energy resources used as raw material	MJ	5,84E+00	5,84E+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	1,12E+02	1,11E+02	0*	0*	0*	6,92E-01	
Non hazardous waste disposed	kg	9,29E+03	8,06E+00	0*	0*	9,29E+03	0*	
Radioactive waste disposed	kg	7,57E+00	3,49E-03	0*	0*	7,57E+00	0*	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	2,67E-01	3,08E-02	0*	1,36E-01	0*	9,99E-02	
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	6,83E-02	0*	0*	0*	0*	6,83E-02	
Exported Energy	MJ	4,11E-04	3,87E-05	0*	3,73E-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 2020-12 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.

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Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
<i>Independent verification of the declaration and data</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 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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