Product Environmental Profile

ALTIVAR 610 - 110 to 160kW 400V - 3PH - IP20

Easy Altivar 610





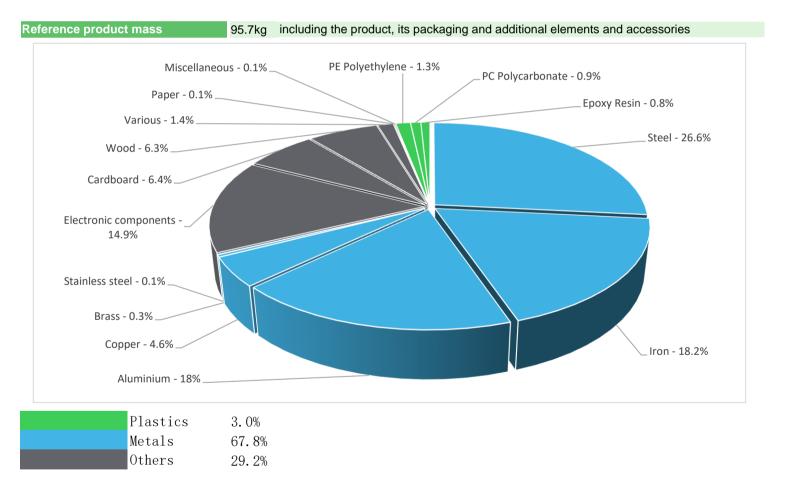




General information

Representative product	ALTIVAR 610 - 110 to 160kW 400V - 3PH - IP20 - ATV610C16N4				
Description of the product	The main purpose of the Easy Altivar 610 is the speed control and variation of an asynchronous electric motor for water treatment applications.				
Description of the range	Altivar Process ATV610 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.				
Functional unit	During the 10 years, the variable speed drive can control the speed and torque of asynchronous electric motor for water treatment applications. The function unit is accordance with the following technical data: -Rated supply voltage:400 VMotor Power KW: from 90KW to 132KW for heavy duty & from 110KW to 160KW for normal dutyMotor Power HP: from 122HP to 180HP for heavy duty & from 150HP to 218HP for normal dutyIP20 in accordance with the standard IEC 60529.				

Constituent materials



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

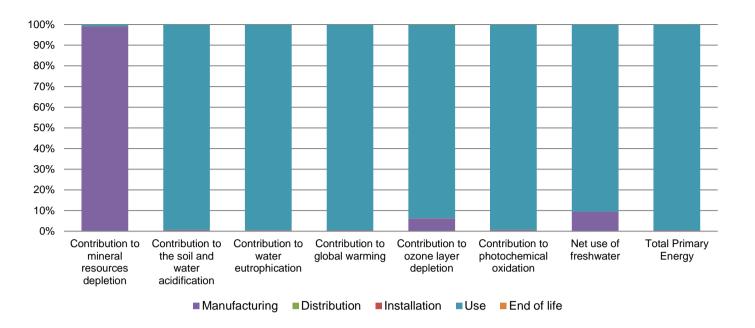


The A	LTIVAR 610 - 110 to 160kW 400V - 3PH - IP20 presents the following relevent environmental aspects						
Design	Indicate all the eco-design improvements brought to the product at the design phase compared to previous offer range, refer to ecoDesign Way results						
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified						
	Weight and volume of the packaging optimized, based on the European Union's packaging directive						
Distribution	Packaging weight is 13707 g, consisting of Wood(44.5%), Cardboard (45.5%), Paper(0.6%), PE(9.3%), PP(0.1%)						
	Product distribution optimised by setting up local distribution centres						
Installation	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase.						
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 in This product contains Electronic Board (Communication) (2827.8 g) Electronic Board (Power) (7805.3g) Electrolyte Capacitors (4904.0 g) Cable (High current) (175.5 g) LCD display(6.7g) 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 documents.							
	is available on the Schneider-Electric Green Premium website https://www.se.com/ww/en/work/support/green-premium/						
	Recyclability potential: 78% Recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).						



Reference life time	10 years					
Product category	Other equipments - Active product					
Installation elements	No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.					
Use scenario	The product is in active mode 80% of the time a power use of 3710 W and in stand-by mode 20% of the time with a power use of 60.2 W, for 10 years.					
Geographical representativeness	China					
Technological representativeness	The main purpose of the Easy Altivar 610 is the speed control and variation of an asynchronous electric motor for water treatment applications.					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN		

Compulsory indicators ALTIVAR 610 - 110 to 160kW 400V - 3PH - IP:			P20 - ATV61	0C16N4			
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.33E-01	1.32E-01	0*	0*	1.17E-03	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2.90E+02	1.94E+00	5.64E-02	0*	2.88E+02	3.01E-02
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	7.64E+01	4.04E-01	1.30E-02	0*	7.60E+01	1.00E-02
Contribution to global warming	kg CO ₂ eq	2.67E+05	1.26E+03	0*	0*	2.65E+05	0*
Contribution to ozone layer depletion	kg CFC11 eq	2.26E-03	1.41E-04	0*	0*	2.11E-03	1.21E-06
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	3.43E+01	2.33E-01	4.02E-03	0*	3.40E+01	0*
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3.28E+02	3.14E+01	0*	0*	2.96E+02	0*
Total Primary Energy	MJ	4.37E+06	2.08E+04	0*	0*	4.35E+06	0*



	ALTIVAR 61	0 - 110 to 160kW	400V - 3PH - I	P20 - ATV61	0C16N4	
Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
MJ	4.03E+06	1.39E+04	0*	0*	4.01E+06	0*
m³	2.77E+07	1.65E+05	0*	0*	2.75E+07	0*
m³	1.33E+07	9.94E+04	2.03E+03	0*	1.32E+07	1.67E+03
Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
kg	2.00E+01	2.00E+01	0*	0*	0*	0*
MJ	2.24E+05	7.27E+02	0*	0*	2.23E+05	0*
MJ	4.14E+06	2.01E+04	0*	0*	4.12E+06	0*
MJ	2.23E+05	4.73E+02	0*	0*	2.23E+05	0*
MJ	2.53E+02	2.53E+02	0*	0*	0*	0*
MJ	4.14E+06	1.98E+04	0*	0*	4.12E+06	0*
MJ	2.68E+02	2.68E+02	0*	0*	0*	0*
MJ	0.00E+00	0*	0*	0*	0*	0*
MJ	0.00E+00	0*	0*	0*	0*	0*
Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
kg	1.07E+04	2.01E+03	0*	0*	8.56E+03	1.18E+02
kg	4.87E+04	5.14E+02	0*	5.95E+00	4.82E+04	0*
kg	1.76E+00	1.70E-01	3.12E-04	2.14E-04	1.59E+00	8.19E-04
Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
kg	7.94E+01	6.45E+00	0*	8.40E+00	0*	6.45E+01
kg	0.00E+00	0*	0*	0*	0*	0*
kg	4.68E+00	0*	0*	0*	0*	4.68E+00
MJ	9.52E+00	5.71E+00	0*	3.81E+00	0*	0*
	MJ m³ m³ Unit kg MJ MJ MJ MJ MJ MJ MJ kg kg kg kg kg kg kg kg	Unit Total MJ 4.03E+06 m³ 2.77E+07 m³ 1.33E+07 Unit Total kg 2.00E+01 MJ 2.24E+05 MJ 4.14E+06 MJ 2.53E+02 MJ 2.68E+02 MJ 0.00E+00 MJ 0.00E+00 MJ 0.70E+00 MJ 0.76E+04 kg 1.76E+04 kg 1.76E+00 Unit Total kg 7.94E+01 kg 0.00E+00 kg 4.68E+00	Unit Total Manufacturing MJ 4.03E+06 1.39E+04 m³ 2.77E+07 1.65E+05 m³ 1.33E+07 9.94E+04 Unit Total Manufacturing kg 2.00E+01 2.00E+01 MJ 2.24E+05 7.27E+02 MJ 4.14E+06 2.01E+04 MJ 2.53E+02 2.53E+02 MJ 4.14E+06 1.98E+04 MJ 2.68E+02 2.68E+02 MJ 0.00E+00 0* MJ 0.7E+04 2.01E+03 kg 1.7E+04 5.14E+02 kg 1.76E+00 1.70E-01 Unit Total Manufacturing kg 7.94E+01 6.45E+00 kg 0.00E+00 0* kg 0.00E+00 0	Unit Total Manufacturing Distribution MJ 4.03E+06 1.39E+04 0* m³ 2.77E+07 1.65E+05 0* m³ 1.33E+07 9.94E+04 2.03E+03 Unit Total Manufacturing Distribution kg 2.00E+01 2.00E+01 0* MJ 2.24E+05 7.27E+02 0* MJ 4.14E+06 2.01E+04 0* MJ 2.53E+05 4.73E+02 0* MJ 2.53E+02 2.53E+02 0* MJ 2.68E+02 2.68E+02 0* MJ 0.00E+00 0* 0* Mg 1.07E+04 2.01E+03 0* kg 1.76E+04 5.14E+02 0* kg 7	Unit Total Manufacturing Distribution Installation MJ 4.03E+06 1.39E+04 0* 0* m³ 2.77E+07 1.65E+05 0* 0* m³ 1.33E+07 9.94E+04 2.03E+03 0* Unit Total Manufacturing Distribution Installation kg 2.00E+01 2.00E+01 0* 0* MJ 2.24E+05 7.27E+02 0* 0* MJ 4.14E+06 2.01E+04 0* 0* MJ 2.23E+05 4.73E+02 0* 0* MJ 2.53E+02 2.53E+02 0* 0* MJ 4.14E+06 1.98E+04 0* 0* MJ 2.68E+02 2.68E+02 0* 0* MJ 0.00E+00 0* 0* 0* MJ 0.00E+00 0* 0* 0* MJ 0.00E+00 0* 0* 0* Mg 1.	MJ 4.03E+06 1.39E+04 0* 0* 4.01E+06 m³ 2.77E+07 1.65E+05 0* 0* 2.75E+07 m³ 1.33E+07 9.94E+04 2.03E+03 0* 1.32E+07 Unit Total Manufacturing Distribution Installation Use kg 2.00E+01 2.00E+01 0* 0* 0* MJ 2.24E+05 7.27E+02 0* 0* 2.23E+05 MJ 4.14E+06 2.01E+04 0* 0* 4.12E+06 MJ 2.23E+05 4.73E+02 0* 0* 0* MJ 2.53E+02 2.53E+02 0* 0* 0* MJ 2.68E+02 2.68E+02 0* 0* 0* MJ 0.00E+00 0* 0* 0* 0* MJ 0.00E+00 0* 0* 0* 0* MJ 0.00E+00 0* 0* 0* 0* MJ <

^{*} 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 44166 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 this environmental analysis, all the impacts (excepted "Mineral resources depletion") of other products in this family may be proportionally extrapolated by energy consumption values.

For "Mineral resources depletion", the impacts may be proportionally extrapolated by the products weights.

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	04/2022	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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