

Product Environmental Profile

Altivar softstarter ATS130 105 A

Altivar Soft Starter ATS130





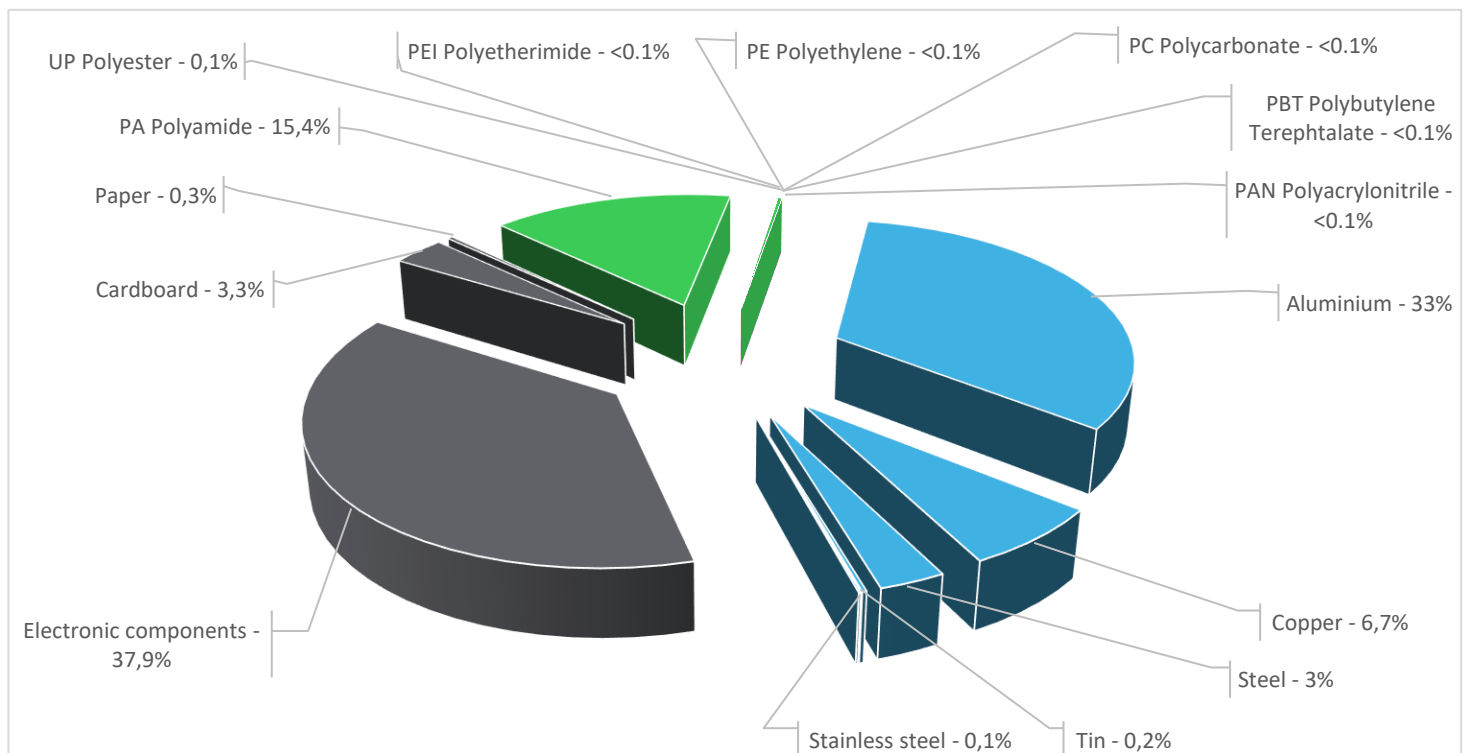
General information

Representative product	Altivar softstarter ATS130 105 A - ATS130N2C11LT
Description of the product	The main function of Altivar Soft Starter products range is regulating the starting torque and start current.
Description of the range	This range consists of products Altivar Soft Starter 130 with ratings from 80A to 105A for operation on 200V to 480V, 3-phase supplies (ATS130N2C11LT and ATS130N2D80LT). The degree of protection is IP20. 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	Starting asynchronous motors with maximal current of 105A for at least 400.000 times. Calculation of the environmental impacts is based on 10 years of product service lifetime. The usage profile taken into account is 27,5% uptime in use phase at 75% loading rate, 22,5% uptime in stand by phase and 50% uptime in off phase.



Constituent materials

Reference product mass 2,34 kg including the product, its packaging and additional elements and accessories



Plastics	15,5%
Metals	43,0%
Others	41,5%



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 Altivar softstarter ATS130 105 A presents the following relevant environmental aspects

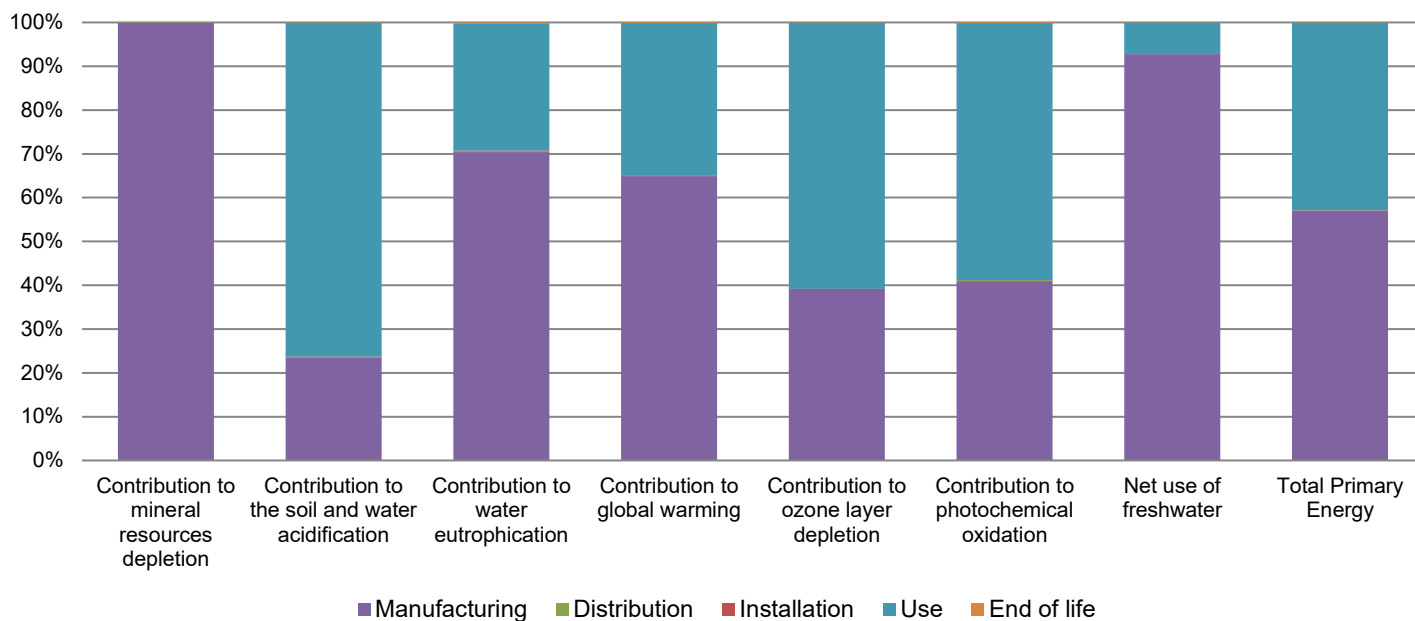
Design	Delays the wear and tear on the system by reducing current and torque when starting and improves the energy consumption of the system because the power semiconductors are bridged by the bypass relays after startup, thereby minimizing electrical losses. Avoid oversizing which is necessary when the system is dimensioned for a DOL motor starter (direct in line). Thus, avoid the oversizing of the mechanical components downstream of the motor and of the upstream network to be able to withstand the inrush current and the resulting starting torque.
Manufacturing	Manufactured at a production site complying with the regulations
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 83 g, consisting of cardboard (93%) and paper (7%)
Installation	Can be mounted on DIN rail. Have to be connected with wires.
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 (101,5 g), cable (9 g) and Liquid and pasty substances (0,5 g). 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 http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: 63% 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	No additional material for installation necessary.			
Use scenario	The product is in active phase (in load, unload and bypass) 27,5% of the time with a power consumption in the middle of 4,2W, in stand-by phase 22,5% of the time with a power consumption of 2,4W, has no sleep phase, and is in off phase 50% of the time with a power consumption of 0W, for 10 years.			
Geographical representativeness	Europe			
Technological representativeness	The main function of Altivar Soft Starter products range is regulating the starting torque and start current.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Germany	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		Altivar softstarter ATS130 105 A - ATS130N2C11LT						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to mineral resources depletion	kg Sb eq	1,82E-02	1,82E-02	0*	0*	3,99E-06	0*	
Contribution to the soil and water acidification	kg SO ₂ eq	8,70E-01	2,05E-01	1,38E-03	0*	6,63E-01	7,05E-04	
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	8,58E-02	6,04E-02	3,17E-04	0*	2,49E-02	1,96E-04	
Contribution to global warming	kg CO ₂ eq	2,52E+02	1,63E+02	3,02E-01	0*	8,77E+01	3,73E-01	
Contribution to ozone layer depletion	kg CFC11 eq	3,51E-05	1,37E-05	0*	0*	2,13E-05	1,96E-08	
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	5,34E-02	2,19E-02	9,83E-05	0*	3,13E-02	7,29E-05	
Resources use		Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3,16E+00	2,93E+00	0*	0*	2,29E-01	3,28E-04	
Total Primary Energy	MJ	4,16E+03	2,37E+03	4,27E+00	0*	1,78E+03	3,46E+00	



Optional indicators		Altivar softstarter ATS130 105 A - ATS130N2C11LT						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	3,02E+03	2,11E+03	4,24E+00	0*	9,03E+02	2,78E+00	
Contribution to air pollution	m ³	2,14E+04	1,76E+04	1,28E+01	0*	3,76E+03	2,45E+01	
Contribution to water pollution	m ³	1,44E+04	1,06E+04	4,96E+01	0*	3,68E+03	3,97E+01	
Resources use		Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,47E-01	1,47E-01	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	2,19E+02	9,17E+01	0*	0*	1,27E+02	0*	
Total use of non-renewable primary energy resources	MJ	3,94E+03	2,28E+03	4,26E+00	0*	1,65E+03	3,46E+00	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,19E+02	9,17E+01	0*	0*	1,27E+02	0*	
Use of renewable primary energy resources used as raw material	MJ	0,00E+00	0*	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3,92E+03	2,27E+03	4,26E+00	0*	1,65E+03	3,46E+00	
Use of non renewable primary energy resources used as raw material	MJ	1,35E+01	1,35E+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	2,62E+02	2,59E+02	0*	0*	0*	3,20E+00
Non hazardous waste disposed	kg	3,65E+02	3,66E+01	0*	0*	3,28E+02	0*
Radioactive waste disposed	kg	2,79E-01	1,20E-02	0*	0*	2,67E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1,55E+00	6,10E-02	0*	8,26E-02	0*	1,41E+00
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4,74E-02	0*	0*	0*	0*	4,74E-02
Exported Energy	MJ	2,60E-04	2,23E-05	0*	2,38E-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 manufacturing 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 environmental indicators of other products in this family are the same.

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 :	SCHN-00746-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH 32	Information and reference documents	www.pep-ecopassport.org
Date of issue	03/22	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	External X		
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 :2016			
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 »			



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