

Product Environmental Profile

Altivar Process ATV950, Variable speed drive, 11kW, 380 to 480V, 3 phases, IP55

Altivar Process ATV900

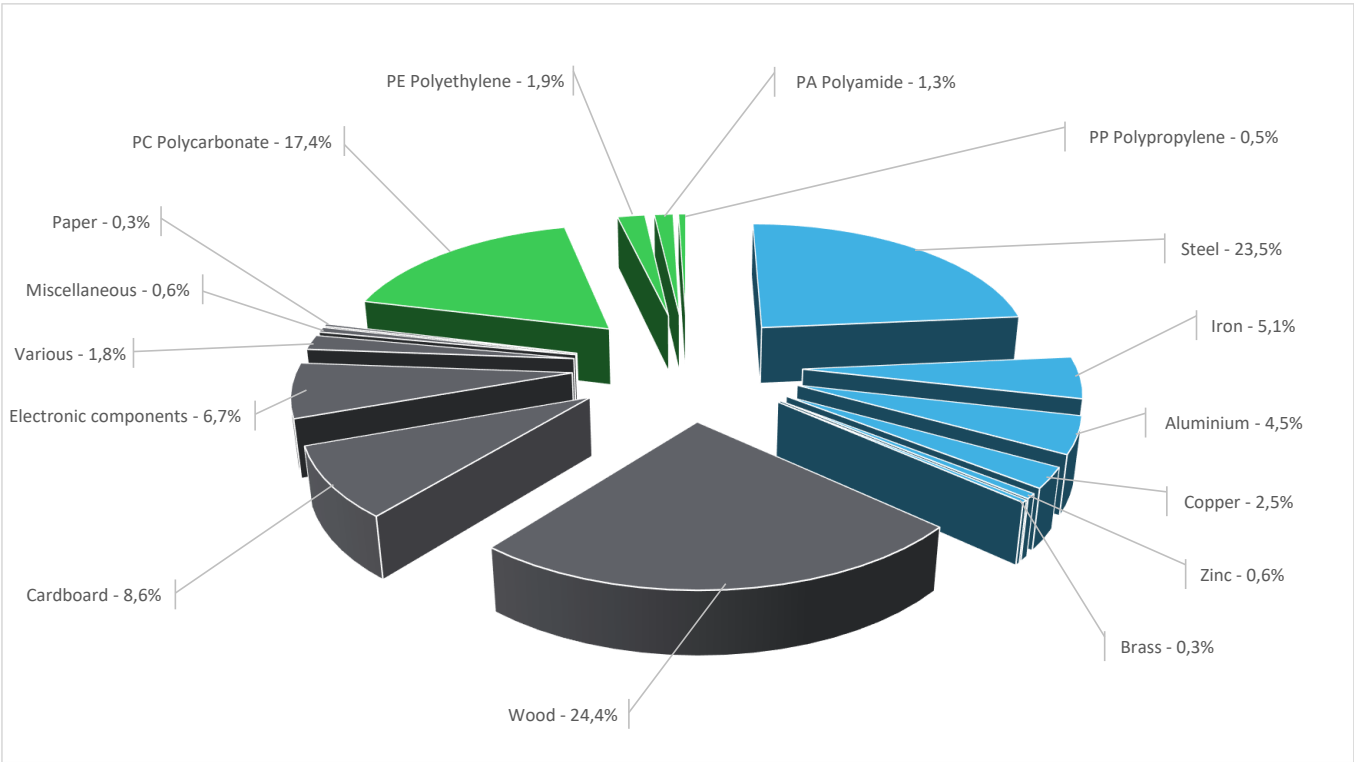


General information

Reference product	Altivar Process ATV950, Variable speed drive, 11kW, 380 to 480V, 3 phases, IP55 - ATV950D11N4E
Description of the product	The main function of the Altivar Process product range is the speed control and variation of a synchronous or asynchronous electric motor for fluid management and industrial applications.
Description of the range	This PEP refer to a range of products assimilated to a reference product by an extrapolation rule.This range consists of products Altivar Process ATV900 designed for industrial processes in the following market segments: oil and gas, mining, minerals and metals, food and beverage water and wastewater.The rating is from 0,75 to 11 kW (1 to 15 HP). The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	To adapt the speed and torque of synchronous, asynchronous or reluctance motor to the machine's operating point for 11 kW for heavy duty electric motors for fluid management and industrial applications in IP55/UL type 1 conditions, at 380V to 480V rated 3-phases voltage supply. Calculation of the environmental impacts is based on 10 years of product service lifetime. The usage profile taken into account is 20% uptime in full phase, 30% uptime in medium phase, 40% uptime in low phase and 10% uptime in "standby" phase (equating it with standstill phase) of the 5000h operating time and 1000h of standby according to the "Electric Motor, VSD and PDS use phase GHG Emissions - CEMEP guideline: Duty profile for general Purpose Machinery_V1".

Constituent materials

Reference product mass	27,53 kg	including the product, its packaging, additional elements and accessories
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Plastics	21,1%
Metals	36,5%
Others	42,4%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
<https://www.se.com>

Additional environmental information

End Of Life	Recyclability potential:	86%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).
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Environmental impacts

Reference service life time	10 years		
Product category	Other equipments - Active product		
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study		
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption		
Installation elements	The product does not require any special installation operations		
Use scenario	The product is in full phase 20% of the time with a power use of 247W, in medium phase 30% of the time with a power use 134W, in low phase 40% of the time with a power use 93W, in "standby" phase (equating it with standstill phase) 10% of the time with a power use 98W of the 5000h operating time for 10 years and 1000h of standby according to the "Electric Motor, VSD and PDS use phase GHG Emissions - CEMEP guideline: Duty profile for general Purpose Machinery_V1". Drive efficiency according to IEC/EN 61800-9-2 (supersedes EN 50598-2).		
Time representativeness	The collected data are representative of the year 2025		
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are similar and representative of the actual type of technologies used to make the product.		
Geographical representativeness	Final assembly site	Use phase	
	China, Wuxi	Europe	
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity mix; Production mix; low voltage; 2022; China, CN	No energy used	Electricity mix; Production mix; low voltage; 2022; Europe, EU 27
			[C1 - C4]
			Global, European and French datasets are used.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.se.com/contact>

Mandatory Indicators		Altivar Process ATV950, Variable speed drive, 11kW, 380 to 480V, 3 phases, IP55 - ATV950D11N4E						
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to climate change	kg CO2 eq	4,48E+03	2,01E+02	4,24E+00	2,23E+01	4,23E+03	2,45E+01	1,09E+00
Contribution to climate change-fossil	kg CO2 eq	4,39E+03	2,13E+02	4,24E+00	8,72E+00	4,14E+03	2,44E+01	-4,50E+00
Contribution to climate change-biogenic	kg CO2 eq	9,42E+01	-1,29E+01	0*	1,36E+01	9,34E+01	1,01E-01	5,59E+00
Contribution to climate change-land use and land use change	kg CO2 eq	7,23E-03	7,20E-03	6,13E-06	0*	0,00E+00	2,11E-05	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	4,17E-05	2,28E-05	4,84E-08	8,27E-08	1,81E-05	6,70E-07	-4,10E-07
Contribution to acidification	mol H+ eq	2,37E+01	1,44E+00	6,69E-03	1,64E-02	2,21E+01	8,89E-02	-3,14E-02
Contribution to eutrophication, freshwater	kg P eq	1,13E-02	8,96E-04	1,55E-05	8,54E-05	1,01E-02	1,25E-04	-5,35E-05
Contribution to eutrophication, marine	kg N eq	2,80E+00	1,94E-01	1,28E-03	5,63E-03	2,59E+00	1,14E-02	-5,72E-03
Contribution to eutrophication, terrestrial	mol N eq	4,39E+01	2,13E+00	1,41E-02	5,09E-02	4,15E+01	1,33E-01	-5,24E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	8,97E+00	6,98E-01	4,50E-03	1,29E-02	8,21E+00	3,82E-02	-1,61E-02
Contribution to resource use, minerals and metals	kg Sb eq	3,15E-02	3,01E-02	0*	0*	1,37E-03	6,87E-06	-5,58E-04
Contribution to resource use, fossils	MJ	1,07E+05	5,43E+03	7,39E+01	5,70E+01	1,01E+05	4,16E+02	-8,07E+01
Contribution to water use	m3 eq	4,44E+02	1,20E+02	1,51E-01	3,54E-01	3,21E+02	3,08E+00	-2,41E+00

Inventory flows Indicators		Altivar Process ATV950, Variable speed drive, 11kW, 380 to 480V, 3 phases, IP55 - ATV950D11N4E						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to renewable primary energy used as energy	MJ	2,40E+04	1,82E+02	0*	3,52E+01	2,38E+04	2,39E+01	4,35E+00
Contribution to renewable primary energy used as raw material	MJ	1,71E+02	1,71E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-7,29E+01
Contribution to total renewable primary energy	MJ	2,42E+04	3,53E+02	0*	3,52E+01	2,38E+04	2,39E+01	-6,86E+01
Contribution to non renewable primary energy used as energy	MJ	1,07E+05	5,17E+03	7,39E+01	5,70E+01	1,01E+05	4,16E+02	-7,17E+01
Contribution to non renewable primary energy used as raw material	MJ	2,56E+02	2,56E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-9,05E+00
Contribution to total non renewable primary energy	MJ	1,07E+05	5,43E+03	7,39E+01	5,70E+01	1,01E+05	4,16E+02	-8,07E+01
Contribution to use of secondary material	kg	2,30E+00	2,30E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Contribution to use of renewable secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Contribution to use of non renewable secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Contribution to net use of fresh water	m³	1,04E+01	2,81E+00	3,51E-03	2,04E-02	7,49E+00	8,68E-02	-5,61E-02
Contribution to hazardous waste disposed	kg	7,43E+02	6,22E+02	0*	1,14E+00	1,17E+02	2,30E+00	-3,44E+01
Contribution to non hazardous waste disposed	kg	7,56E+02	1,03E+02	3,76E-01	4,07E+00	6,37E+02	1,17E+01	-3,61E+00
Contribution to radioactive waste disposed	kg	2,06E-01	5,37E-02	2,98E-04	3,60E-04	1,50E-01	1,46E-03	-1,09E-03
Contribution to components for reuse	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Contribution to materials for recycling	kg	2,04E+01	1,57E+00	0,00E+00	4,19E+00	0,00E+00	1,47E+01	0,00E+00
Contribution to materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Contribution to exported energy	MJ	2,92E+00	6,18E-01	0,00E+00	2,28E+00	0,00E+00	2,59E-02	0,00E+00

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

Contribution to biogenic carbon content of the product	kg of C	0,00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	3,28E+00

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		Altivar Process ATV950, Variable speed drive, 11kW, 380 to 480V, 3 phases, IP55 - ATV950D11N4E							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	4,23E+03	0	0,00E+00	0	0	0	4,23E+03	0
Contribution to climate change-fossil	kg CO2 eq	4,14E+03	0	0,00E+00	0	0	0	4,14E+03	0
Contribution to climate change-biogenic	kg CO2 eq	9,34E+01	0	0,00E+00	0	0	0	9,34E+01	0
Contribution to climate change-land use and land use change	kg CO2 eq	0,00E+00	0	0,00E+00	0	0	0	0,00E+00	0
Contribution to ozone depletion	kg CFC-11 eq	1,81E-05	0	0,00E+00	0	0	0	1,81E-05	0
Contribution to acidification	mol H+ eq	2,21E+01	0	0,00E+00	0	0	0	2,21E+01	0
Contribution to eutrophication, freshwater	kg P eq	1,01E-02	0	0,00E+00	0	0	0	1,01E-02	0
Contribution to eutrophication marine	kg N eq	2,59E+00	0	0,00E+00	0	0	0	2,59E+00	0
Contribution to eutrophication, terrestrial	mol N eq	4,15E+01	0	0,00E+00	0	0	0	4,15E+01	0
Contribution to photochemical ozone formation - human health	kg COVNM eq	8,21E+00	0	0,00E+00	0	0	0	8,21E+00	0
Contribution to resource use, minerals and metals	kg Sb eq	1,37E-03	0	0,00E+00	0	0	0	1,37E-03	0
Contribution to resource use, fossils	MJ	1,01E+05	0	0,00E+00	0	0	0	1,01E+05	0
Contribution to water use	m3 eq	3,21E+02	0	0,00E+00	0	0	0	3,21E+02	0

Inventory flows Indicators		Altivar Process ATV950, Variable speed drive, 11kW, 380 to 480V, 3 phases, IP55 - ATV950D11N4E							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,38E+04	0	0,00E+00	0	0	0	2,38E+04	0
Contribution to use of renewable primary energy resources used as raw material	MJ	0,00E+00	0	0,00E+00	0	0	0	0,00E+00	0
Contribution to total use of renewable primary energy resources	MJ	2,38E+04	0	0,00E+00	0	0	0	2,38E+04	0
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,01E+05	0	0,00E+00	0	0	0	1,01E+05	0
Contribution to use of non renewable primary energy resources used as raw material	MJ	0,00E+00	0	0,00E+00	0	0	0	0,00E+00	0
Contribution to total use of non-renewable primary energy resources	MJ	1,01E+05	0	0,00E+00	0	0	0	1,01E+05	0
Contribution to use of secondary material	kg	0,00E+00	0	0,00E+00	0	0	0	0,00E+00	0
Contribution to use of renewable secondary fuels	MJ	0,00E+00	0	0,00E+00	0	0	0	0,00E+00	0
Contribution to use of non renewable secondary fuels	MJ	0,00E+00	0	0,00E+00	0	0	0	0,00E+00	0
Contribution to net use of freshwater	m³	7,49E+00	0	0,00E+00	0	0	0	7,49E+00	0
Contribution to hazardous waste disposed	kg	1,17E+02	0	0,00E+00	0	0	0	1,17E+02	0
Contribution to non hazardous waste disposed	kg	6,37E+02	0	0,00E+00	0	0	0	6,37E+02	0
Contribution to radioactive waste disposed	kg	1,50E-01	0	0,00E+00	0	0	0	1,50E-01	0
Contribution to components for reuse	kg	0,00E+00	0	0,00E+00	0	0	0	0,00E+00	0
Contribution to materials for recycling	kg	0,00E+00	0	0,00E+00	0	0	0	0,00E+00	0
Contribution to materials for energy recovery	kg	0,00E+00	0	0,00E+00	0	0	0	0,00E+00	0
Contribution to exported energy	MJ	0,00E+00	0	0,00E+00	0	0	0	0,00E+00	0

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

Life cycle assessment performed with EIME version v6.2.5-6, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

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.

To extrapolate the impact to another product from the range, apply the following extrapolation rules to each indicator per life cycle stage:
MANUFACTURING (i) = Mass of (product+packaging) in grams / Mass of (reference product+reference packaging) in grams
DISTRIBUTION (i) = Mass of (product+packaging) in grams / Mass of (reference product+reference packaging) in grams
INSTALLATION (i) = Mass of (packaging) in grams / Mass of (reference packaging) in grams
USE (i) = Electricity consumption in kWh / Electricity consumption of the reference product in kWh
END OF LIFE (i) = Mass of (product) in grams / Mass of (reference product) in grams
TOTAL (i) = Σ Life Cycle Stages (i)
By multiplying these coefficients with the impacts of the reference product, you will obtain the impacts of the concerned extrapolated product.
Please find all the informations regarding the products on <https://www.se.com>
Electricity consumption for linked products can be provided upon request.

Registration number :	ENVPEP2510029_V1-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
Date of issue	06-2026	Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
		Information and reference documents	www.pep-ecopassport.org
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
Internal	X	External	
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with NF C08-100-1:2022 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"			

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ENVPEP2510029_V1-EN

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06-2026

ENVPEP2510029_V1-EN

Internal

06-2026