

# Product Environmental Profile

## ATH230 HVAC 0.75kW/1HP 200/240V 3PH IP20 Variable Speed Drive

### Altivar HVAC ATH200

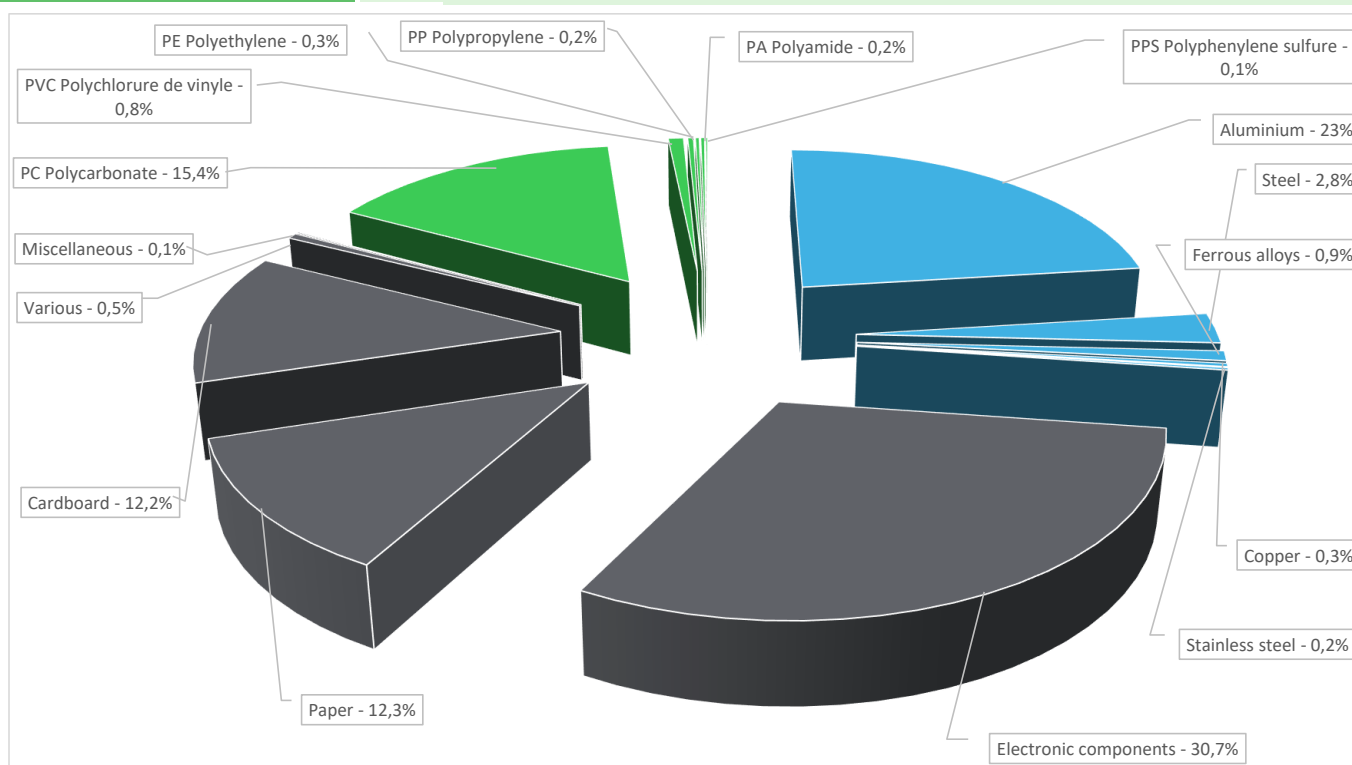


## General information

Reference product	ATH230 HVAC 0.75kW/1HP 200/240V 3PH IP20 Variable Speed Drive - ATH230U07M3
Description of the product	The main function of the Altivar HVAC ATH200 product range is the speed control and variation of a synchronous and asynchronous motors in compact HVAC machines providing energy efficiency, reliability and safety in optimized control panel.
Description of the range	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. 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. This range, Altivar HVAC ATH200, consists of a variable speed drive products designed for Original Equipment Manufacturers (OEMs) that meet pump and fan requirements in compact HVAC machines for 3 Phase synchronous and asynchronous motors from 0,37 to 0,75 kW (0,5 to 1HP).
Functional unit	To adapt the speed and torque of synchronous, asynchronous or reluctance motor to the machine's operating point for 0,75 kW for heavy duty electric motors for fluid management and industrial applications in IP20/UL type 1 conditions, at 200V to 240V rated 3-phase voltage supply. Calculation of the environmental impacts is based on 10 years of product service lifetime. The usage profile taken into account is 6% uptime in full phase, 15% uptime in medium high phase, 35% uptime in medium low phase and 44% uptime in low phase of the 5000h operating time and 1000h of standby according to the CEMEP guide: Pump / Fan / Compressor.

## Constituent materials

Reference product mass 1289 g including the product, its packaging, additional elements and accessories



Plastics	17,0%
Metals	27,2%
Others	55,8%

## 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:	57%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB 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 installation operations.			
Use scenario	The product is in full phase 6% of the time with a power use of 30W, in medium high phase 15% of the time with a 24W, in medium low phase 35% of the time with a power use 17W, in low phase 44% of the time with a power use 15W uptime in low phase of the 5000h operating time for 10 years and 1000h of standby according to the CEMEP guide: pump/fan/compressor. Drive efficiency according to EN 17038.			
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		End-of-life
	China SWD Wuxi	Europe		Europe
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Low voltage; 2020; China, CN	No energy used	Electricity Mix; Low voltage; 2022; Europe, EU-27	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		ATH230 HVAC 0.75kW/1HP 200/240V 3PH IP20 Variable Speed Drive - ATH230U07M3							
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	6,21E+02	2,57E+01	8,18E-02	8,00E-01	5,93E+02	1,38E+00	-1,75E-01	
Contribution to climate change-fossil	kg CO2 eq	6,08E+02	2,60E+01	8,18E-02	3,66E-01	5,80E+02	1,37E+00	-2,51E-01	
Contribution to climate change-biogenic	kg CO2 eq	1,32E+01	0*	0*	4,34E-01	1,31E+01	4,21E-03	7,54E-02	
Contribution to climate change-land use and land use change	kg CO2 eq	2,98E-04	2,97E-04	1,24E-07	0*	0*	4,09E-07	0,00E+00	
Contribution to ozone depletion	kg CFC-11 eq	6,36E-06	3,79E-06	9,93E-10	4,99E-09	2,54E-06	2,53E-08	-4,17E-08	
Contribution to acidification	mol H+ eq	3,27E+00	1,67E-01	0*	1,36E-03	3,10E+00	2,57E-03	-6,66E-03	
Contribution to eutrophication, freshwater	kg P eq	1,60E-03	1,67E-04	3,06E-07	4,52E-06	1,42E-03	8,49E-06	-1,53E-06	
Contribution to eutrophication marine	kg N eq	3,81E-01	1,72E-02	0*	4,60E-04	3,63E-01	4,54E-04	-2,62E-04	
Contribution to eutrophication, terrestrial	mol N eq	6,02E+00	1,93E-01	0*	3,42E-03	5,82E+00	5,16E-03	-2,67E-03	
Contribution to photochemical ozone formation - human health	kg COVNM eq	1,22E+00	6,38E-02	0*	8,19E-04	1,15E+00	1,33E-03	-1,14E-03	
Contribution to resource use, minerals and metals	kg Sb eq	7,58E-03	7,38E-03	0*	0*	1,92E-04	0*	-8,67E-05	
Contribution to resource use, fossils	MJ	1,46E+04	3,94E+02	0*	3,74E+00	1,42E+04	1,05E+01	-4,66E+00	
Contribution to water use	m3 eq	6,14E+01	1,64E+01	0*	2,99E-02	4,49E+01	1,14E-01	-3,43E-01	

Inventory flows Indicators		ATH230 HVAC 0.75kW/1HP 200/240V 3PH IP20 Variable Speed Drive - ATH230U07M3							
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 use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3,36E+03	2,88E+01	0*	3,96E-01	3,33E+03	8,97E-01	7,70E-02	
Contribution to use of renewable primary energy resources used as raw material	MJ	6,90E+00	6,90E+00	0*	0*	0*	0*	-1,05E+00	
Contribution to total use of renewable primary energy resources	MJ	3,37E+03	3,57E+01	0*	3,96E-01	3,33E+03	8,97E-01	-9,74E-01	
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,46E+04	3,81E+02	0*	3,74E+00	1,42E+04	1,05E+01	-4,56E+00	
Contribution to use of non renewable primary energy resources used as raw material	MJ	1,25E+01	1,25E+01	0*	0*	0*	0*	-1,03E-01	
Contribution to total use of non-renewable primary energy resources	MJ	1,46E+04	3,94E+02	0*	3,74E+00	1,42E+04	1,05E+01	-4,66E+00	
Contribution to use of secondary material	kg	3,35E-03	3,35E-03	0*	0*	0*	0*	0,00E+00	
Contribution to use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00	
Contribution to use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00	
Contribution to net use of freshwater	m³	1,44E+00	3,84E-01	0*	2,25E-03	1,05E+00	3,21E-03	-7,98E-03	
Contribution to hazardous waste disposed	kg	1,25E+02	1,08E+02	0*	1,96E-02	1,64E+01	3,37E-01	-6,74E+00	
Contribution to non hazardous waste disposed	kg	1,03E+02	1,38E+01	0*	1,03E-01	8,94E+01	1,82E-01	-1,30E-01	
Contribution to radioactive waste disposed	kg	3,04E-02	9,32E-03	6,02E-06	2,13E-05	2,11E-02	3,38E-05	-6,24E-05	
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00	
Contribution to materials for recycling	kg	8,38E-01	5,24E-02	0*	2,50E-01	0*	5,36E-01	0,00E+00	
Contribution to materials for energy recovery	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00	
Contribution to exported energy	MJ	0,00E+00	0*	0*	0*	0*	0*	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 1,00E-01

\* 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		ATH230 HVAC 0.75kW/1HP 200/240V 3PH IP20 Variable Speed Drive - ATH230U07M3								
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]	
Contribution to climate change	kg CO2 eq	5,93E+02	0*	0*	0*	0*	0*	5,93E+02	0*	
Contribution to climate change-fossil	kg CO2 eq	5,80E+02	0*	0*	0*	0*	0*	5,80E+02	0*	
Contribution to climate change-biogenic	kg CO2 eq	1,31E+01	0*	0*	0*	0*	0*	1,31E+01	0*	
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to ozone depletion	kg CFC-11 eq	2,54E-06	0*	0*	0*	0*	0*	2,54E-06	0*	
Contribution to acidification	mol H+ eq	3,10E+00	0*	0*	0*	0*	0*	3,10E+00	0*	
Contribution to eutrophication, freshwater	kg P eq	1,42E-03	0*	0*	0*	0*	0*	1,42E-03	0*	
Contribution to eutrophication marine	kg N eq	3,63E-01	0*	0*	0*	0*	0*	3,63E-01	0*	
Contribution to eutrophication, terrestrial	mol N eq	5,82E+00	0*	0*	0*	0*	0*	5,82E+00	0*	
Contribution to photochemical ozone formation - human health	kg COVNM eq	1,15E+00	0*	0*	0*	0*	0*	1,15E+00	0*	
Contribution to resource use, minerals and metals	kg Sb eq	1,92E-04	0*	0*	0*	0*	0*	1,92E-04	0*	
Contribution to resource use, fossils	MJ	1,42E+04	0*	0*	0*	0*	0*	1,42E+04	0*	
Contribution to water use	m3 eq	4,49E+01	0*	0*	0*	0*	0*	4,49E+01	0*	

Inventory flows Indicators		ATH230 HVAC 0.75kW/1HP 200/240V 3PH IP20 Variable Speed Drive - ATH230U07M3							
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	3,33E+03	0*	0*	0*	0*	0*	3,33E+03	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	3,33E+03	0*	0*	0*	0*	0*	3,33E+03	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,42E+04	0*	0*	0*	0*	0*	1,42E+04	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	1,42E+04	0*	0*	0*	0*	0*	1,42E+04	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	1,05E+00	0*	0*	0*	0*	0*	1,05E+00	0*
Contribution to hazardous waste disposed	kg	1,64E+01	0*	0*	0*	0*	0*	1,64E+01	0*
Contribution to non hazardous waste disposed	kg	8,94E+01	0*	0*	0*	0*	0*	8,94E+01	0*
Contribution to radioactive waste disposed	kg	2,11E-02	0*	0*	0*	0*	0*	2,11E-02	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	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.

Registration number :	SCHN-02080-V01.01-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH08	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue	10-2025	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal		External <input checked="" type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 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 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			



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