

Product Environmental Profile

Option Module PROFIsafe





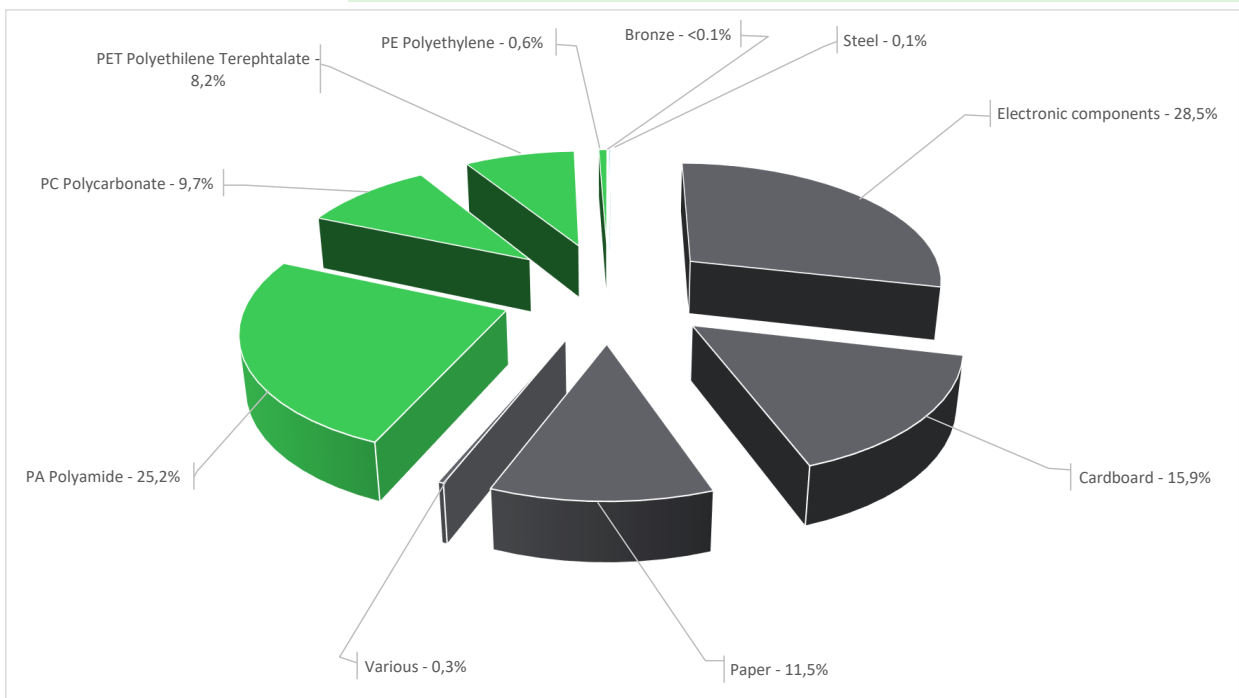
General information

Reference product	Option Module PROFIsafe - VW3A3807
Description of the product	Safety functions over Profinet
Description of the range	Single product
Functional unit	To incorporate safety functions over communication Profinet to the Altivar Speed Drive (ATV900 and ATV340 series) during 20 years. The usage profile taken into account is 100% uptime in use phase.



Constituent materials

Reference product mass	175 g	including the product, its packaging, additional elements and accessories
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Plastics	43,70%
Metals	0,10%
Others	56,20%



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<https://www.se.com/ww/en/work/support/green-premium/>



Additional environmental information

End Of Life	Recyclability potential:	45%	The recyclability rate was calculated from the recycling rates of each material making up the product with the exception of data using the ESR database. For materials or components using the ESR database or the absence of data the conservative hypothesis "0% recyclability" was used.
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Environmental impacts

Reference service life time	20 years			
Product category	Other equipments - Passive product - continuous operation			
Installation elements	The product does not require any installation operations.			
Use scenario	The product is in active mode 100% of the time with a power use of 1,076W for 20 years.			
Time representativeness	The collected data are representative of the year 2024			
Technological representativeness	Safety functions over Profinet			
Geographical representativeness	Europe			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Indonesia, ID	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27

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.schneider-electric.com/contact>

Mandatory Indicators			Option Module PROFIsafe - VW3A3807					
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	8,89E+01	1,12E+01	3,41E-02	9,08E-02	7,73E+01	2,49E-01	-2,36E-01
Contribution to climate change-fossil	kg CO2 eq	8,87E+01	1,12E+01	3,41E-02	8,82E-02	7,72E+01	2,49E-01	-2,26E-01
Contribution to climate change-biogenic	kg CO2 eq	1,31E-01	2,50E-02	0*	2,55E-03	1,03E-01	5,82E-05	-1,03E-02
Contribution to climate change-land use and land use change	kg CO2 eq	2,02E-05	1,96E-05	0*	6,29E-07	0*	4,17E-09	-2,27E-05
Contribution to ozone depletion	kg CFC-11 eq	1,64E-06	1,30E-06	0*	3,80E-09	3,30E-07	4,66E-09	-1,93E-08
Contribution to acidification	mol H+ eq	5,21E-01	7,88E-02	2,16E-04	2,64E-04	4,41E-01	5,01E-04	-1,01E-03
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	2,52E-04	3,54E-05	0*	1,96E-06	2,12E-04	2,98E-06	-2,24E-06
Contribution to eutrophication marine	kg N eq	5,94E-02	8,97E-03	1,01E-04	9,40E-05	5,01E-02	1,36E-04	-1,77E-04
Contribution to eutrophication, terrestrial	mol N eq	8,51E-01	9,48E-02	1,11E-03	7,70E-04	7,53E-01	1,42E-03	-1,75E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	1,92E-01	3,07E-02	2,80E-04	1,90E-04	1,61E-01	4,13E-04	-6,02E-04
Contribution to resource use, minerals and metals	kg Sb eq	2,30E-03	2,30E-03	0*	0*	5,60E-06	0*	-2,86E-05
Contribution to resource use, fossils	MJ	2,12E+03	1,44E+02	4,75E-01	6,82E-01	1,97E+03	5,42E+00	-5,34E+00
Contribution to water use	m3 eq	7,02E+00	4,22E+00	0*	2,90E-02	2,73E+00	3,53E-02	-8,84E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators		Option Module PROFIsafe - VW3A3807						
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	3,83E+02	4,48E+00	0*	7,93E-02	3,78E+02	0*	4,53E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	8,95E-01	8,95E-01	0*	0*	0*	0*	-7,04E-01
Contribution to total use of renewable primary energy resources	MJ	3,83E+02	5,38E+00	0*	7,93E-02	3,78E+02	0*	-6,59E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,12E+03	1,41E+02	4,75E-01	6,82E-01	1,97E+03	5,42E+00	-4,13E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	3,52E+00	3,52E+00	0*	0*	0*	0*	-1,21E+00
Contribution to total use of non-renewable primary energy resources	MJ	2,12E+03	1,44E+02	4,75E-01	6,82E-01	1,97E+03	5,42E+00	-5,34E+00
Contribution to use of secondary material	kg	4,85E-04	4,85E-04	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	1,64E-01	9,85E-02	0*	6,75E-04	6,37E-02	8,21E-04	-2,33E-03
Contribution to hazardous waste disposed	kg	3,76E+01	3,61E+01	0*	0*	1,44E+00	4,88E-02	-2,26E+00
Contribution to non hazardous waste disposed	kg	1,51E+01	3,90E+00	0*	7,01E-02	1,11E+01	4,05E-02	-1,48E-01
Contribution to radioactive waste disposed	kg	4,10E-03	1,71E-03	8,52E-07	2,05E-05	2,33E-03	3,21E-05	-7,07E-05
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	5,59E-02	4,48E-04	0*	1,47E-02	0*	4,07E-02	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	2,31E-03	3,53E-06	0*	2,08E-03	0*	2,28E-04	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 de C 0,00E+00

Contribution to biogenic carbon content of the associated packaging kg de C 1,15E-02

Life cycle assessment performed with EIME version v6.1, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

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	06-2024	Supplemented by	PSR-0005-ed3-EN-2023 06 06
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal ☒ External ☐			
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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