

Product Environmental Profile

Extended I/O module - discrete 6I/2O - analog 2I





General information

Representative product

Extended I/O module - discrete 6I/2O - analog 2I - VW3A3203

Description of the product

This optional additional I/O module can be installed on a Altivar Machine drives in order to meet the needs of applications that manage additional sensors or specific sensors

Functional unit

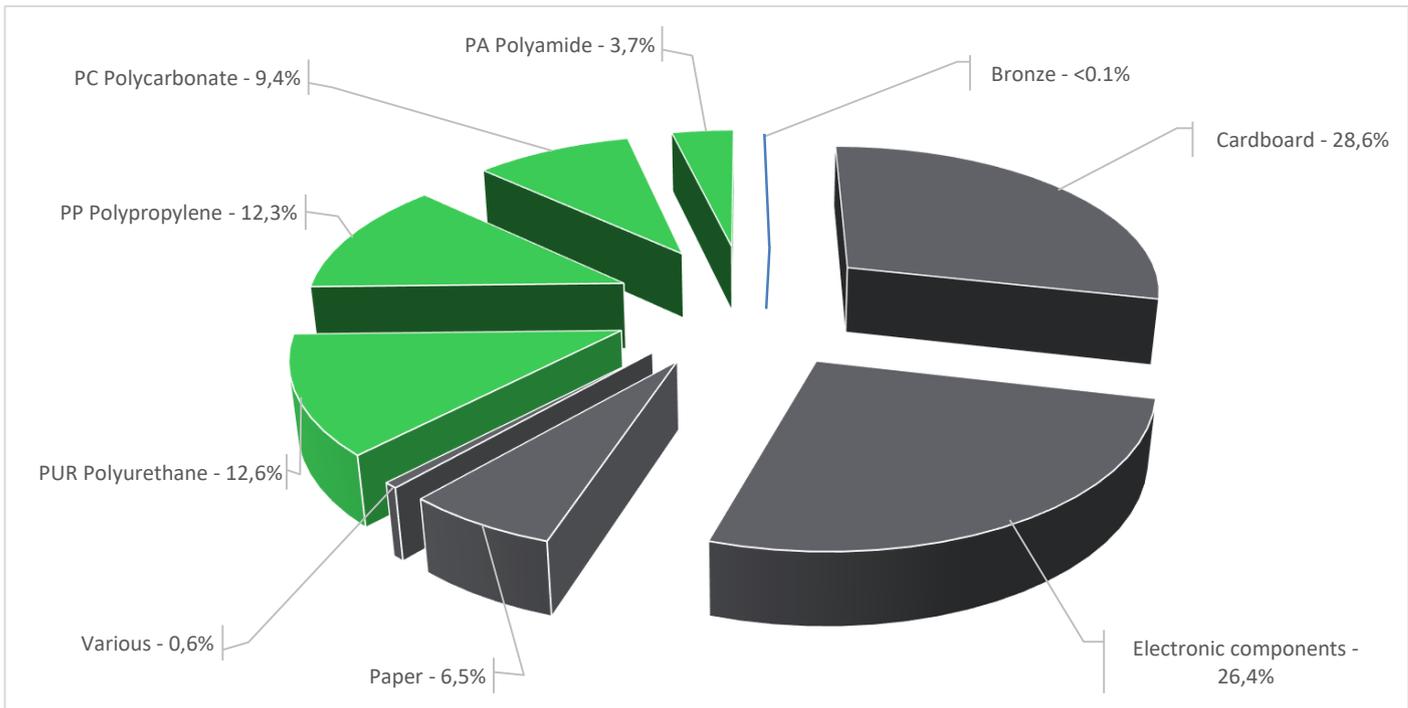
To allow the Altivar Machine drives to manage additional sensors or specific sensors.



Constituent materials

Reference product mass

160 g including the product, its packaging and additional elements and accessories



Plastics	37,9%
Metals	0,1%
Others	62,0%



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 Extended I/O module - discrete 6I/2O - analog 2I presents the following relevant environmental aspects

Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 98,2 g, consisting of Paper (10%), cardboard (48%) and plastic (42%)
Installation	The product does not require any installation operation. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).
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 (43 g) that should be separated from the stream of waste so as to optimize end-of-life treatment. Recyclability potential: 9% 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).

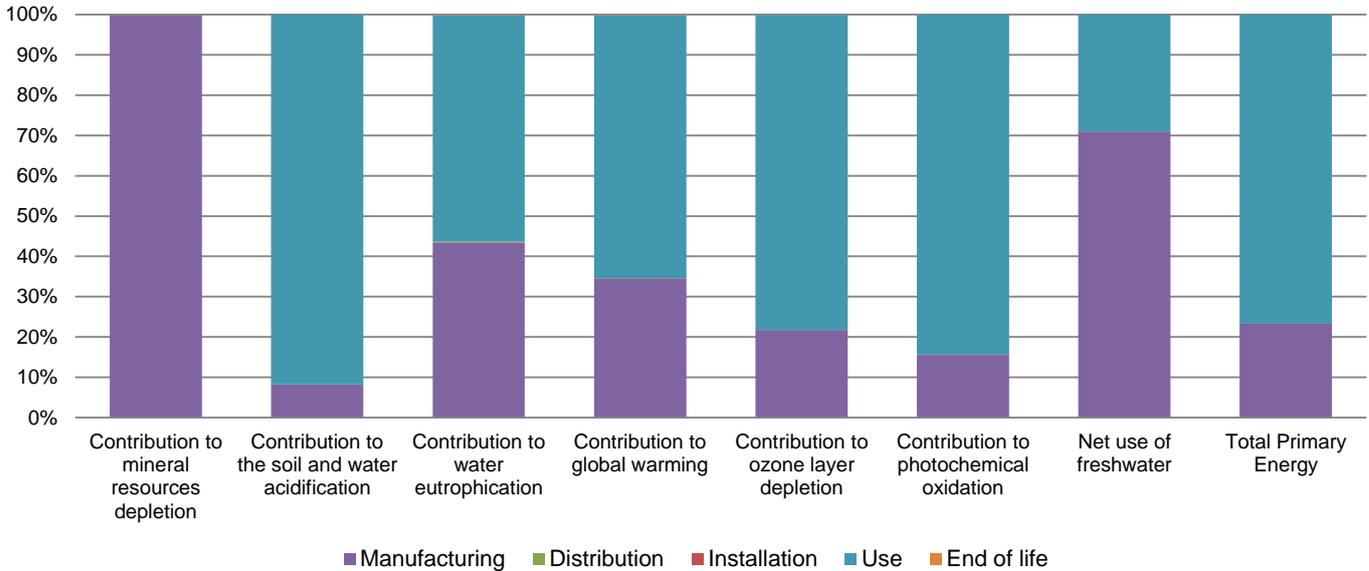


Environmental impacts

Reference life time	10 years			
Product category	Other equipments - Active product			
Installation elements	The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).			
Use scenario	This product consumes 0.5 W 100% of the time during 10 years.			
Geographical representativeness	Europe			
Technological representativeness	This optional additional I/O module can be installed on a Altivar Machine drives in order to meet the needs of applications that manage additional sensors or specific sensors			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Indonesia	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 Extended I/O module - discrete 6I/2O - analog 2I - VW3A3203

Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	9,42E-04	9,41E-04	0*	0*	1,18E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2,13E-01	1,75E-02	9,43E-05	2,88E-05	1,96E-01	3,86E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1,30E-02	5,65E-03	2,17E-05	1,88E-05	7,33E-03	2,12E-05
Contribution to global warming	kg CO ₂ eq	3,96E+01	1,37E+01	2,06E-02	7,17E-03	2,59E+01	6,96E-02
Contribution to ozone layer depletion	kg CFC11 eq	8,03E-06	1,75E-06	0*	0*	6,28E-06	2,37E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1,10E-02	1,71E-03	6,73E-06	2,19E-06	9,24E-03	2,99E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2,32E-01	1,65E-01	0*	0*	6,75E-02	3,35E-05
Total Primary Energy	MJ	6,84E+02	1,59E+02	2,92E-01	8,67E-02	5,24E+02	1,59E-01



Optional indicators		Extended I/O module - discrete 6I/2O - analog 2I - VW3A3203					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	4,09E+02	1,42E+02	2,90E-01	8,23E-02	2,66E+02	1,31E-01
Contribution to air pollution	m³	2,09E+03	9,80E+02	8,78E-01	5,59E-01	1,11E+03	1,15E+00
Contribution to water pollution	m³	2,25E+03	1,16E+03	3,39E+00	9,60E-01	1,09E+03	2,81E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4,42E-02	4,42E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	4,33E+01	5,80E+00	0*	0*	3,75E+01	0*
Total use of non-renewable primary energy resources	MJ	6,41E+02	1,54E+02	2,92E-01	8,57E-02	4,86E+02	1,59E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4,30E+01	5,48E+00	0*	0*	3,75E+01	0*
Use of renewable primary energy resources used as raw material	MJ	3,19E-01	3,19E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6,38E+02	1,51E+02	2,92E-01	8,57E-02	4,86E+02	1,59E-01
Use of non renewable primary energy resources used as raw material	MJ	2,74E+00	2,74E+00	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	1,51E+01	1,49E+01	0*	0*	0*	1,67E-01
Non hazardous waste disposed	kg	1,00E+02	3,42E+00	0*	3,27E-02	9,67E+01	0*
Radioactive waste disposed	kg	8,02E-02	1,38E-03	0*	0*	7,89E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	8,44E-02	9,27E-03	0*	6,91E-02	0*	6,02E-03
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,96E-02	0*	0*	0*	0*	1,96E-02
Exported Energy	MJ	1,82E-04	1,71E-05	0*	1,65E-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, database version 2020-12 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).

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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<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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