

# Product Environmental Profile

## ENCODER INTERFACE MODULE DIGITAL 5/12V ELECTRONIC CARD





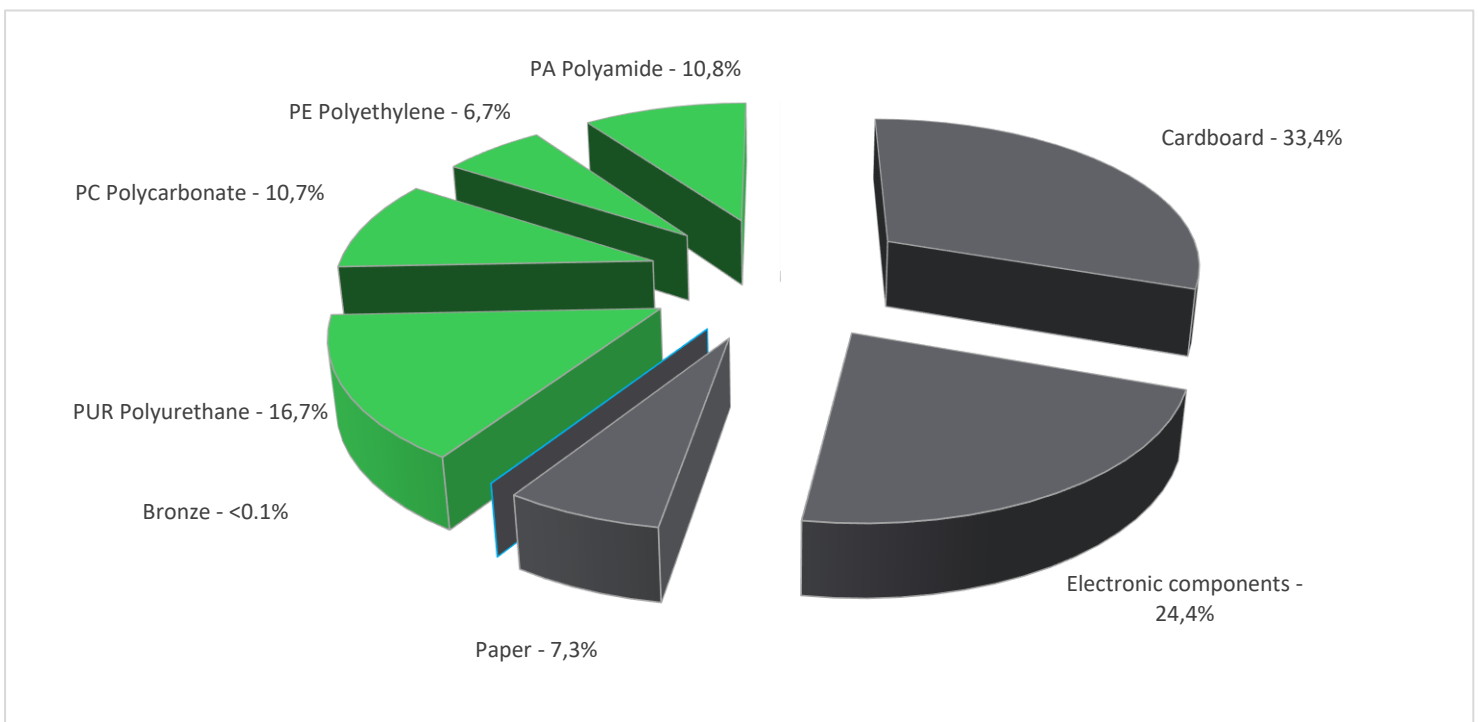
## General information

<b>Representative product</b>	ENCODER INTERFACE MODULE DIGITAL 5/12V ELECTRONIC CARD - VW3A3420
<b>Description of the product</b>	Speed adaptor
<b>Functional unit</b>	To adapt the variable speed drive to specific applications. Calculation of the environmental impact is based on 10 years of product service lifetime. The usage profile taken into account is 100% uptime in use phase.



## Constituent materials

<b>Reference product mass</b>	149,29 g including the product, its packaging and additional elements and accessories
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Plastics	44,9%
Metals	0,0%
Others	65,1%



## 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

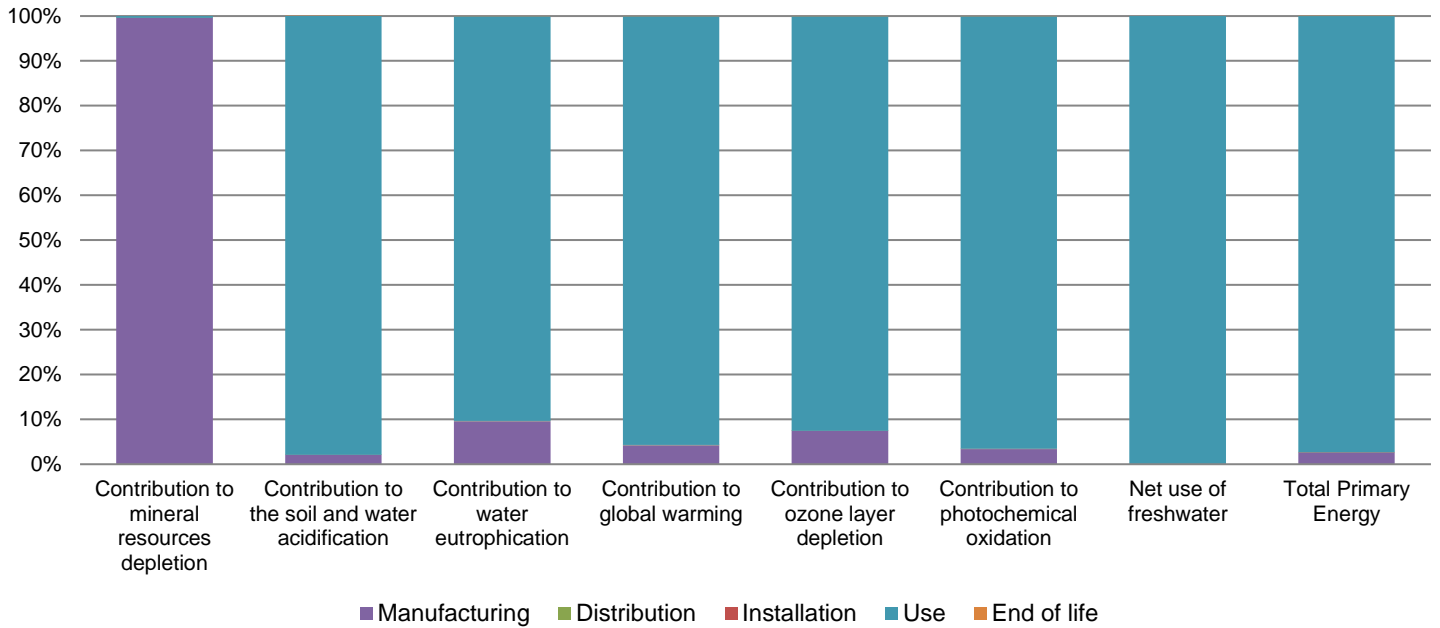
The ENCODER INTERFACE MODULE DIGITAL 5/12V ELECTRONIC CARD presents the following relevant environmental aspects

<b>Design</b>	Indicate all the eco-design improvements brought to the product at the design phase compared to previous offer range, refer to ecoDesign Way results
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 95,5 g, consisting of Cardboard (52,4%), plastic (36,6%), Paper (11%)
<b>Installation</b>	The product does not require any installation operation.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	<p>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</p> <p>This product contains PCBA (0,027kg) that should be separated from the stream of waste so as to optimize end-of-life treatment.</p> <p>No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.</p> <p>Recyclability potential: <b>10%</b> 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).</p>

## Environmental impacts

<b>Reference life time</b>	10 years								
<b>Product category</b>	Other equipments - Active product								
<b>Installation elements</b>	The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).								
<b>Use scenario</b>	This product consumes 2,5W 100% of the time during 10 years.								
<b>Geographical representativeness</b>	Europe								
<b>Technological representativeness</b>	Speed adaptor								
<b>Energy model used</b>	<table border="1"> <thead> <tr> <th>Manufacturing</th> <th>Installation</th> <th>Use</th> <th>End of life</th> </tr> </thead> <tbody> <tr> <td>Energy model used: Indonesia</td> <td>Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; EU-27</td> <td>Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; EU-27</td> <td>Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV;</td> </tr> </tbody> </table>	Manufacturing	Installation	Use	End of life	Energy model used: Indonesia	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; EU-27	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; EU-27	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV;
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Compulsory indicators		ENCODER INTERFACE MODULE DIGITAL 5/12V ELECTRONIC CARD - VW3A3420					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2,29E-03	2,28E-03	0*	0*	8,87E-06	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	4,28E-01	8,97E-03	8,79E-05	0*	4,19E-01	0*
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	2,84E-02	2,72E-03	2,03E-05	1,68E-05	2,57E-02	1,79E-05
Contribution to global warming	kg CO <sub>2</sub> eq	1,07E+02	4,56E+00	1,93E-02	0*	1,02E+02	5,90E-02
Contribution to ozone layer depletion	kg CFC11 eq	7,06E-06	5,26E-07	0*	0*	6,53E-06	2,01E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	2,40E-02	8,19E-04	6,28E-06	0*	2,31E-02	2,52E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3,70E+02	1,09E-01	0*	0*	3,70E+02	0*
Total Primary Energy	MJ	2,09E+03	5,54E+01	2,72E-01	0*	2,04E+03	0*



Optional indicators		ENCODER INTERFACE MODULE DIGITAL 5/12V ELECTRONIC CARD - VW3A3420						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	1,21E+03	4,53E+01	2,71E-01	0*	1,16E+03	0*	
Contribution to air pollution	m <sup>3</sup>	4,79E+03	4,11E+02	8,19E-01	5,06E-01	4,37E+03	9,70E-01	
Contribution to water pollution	m <sup>3</sup>	4,67E+03	4,36E+02	3,17E+00	9,17E-01	4,23E+03	2,37E+00	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	5,80E-02	5,80E-02	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	2,62E+02	2,17E+00	0*	0*	2,60E+02	0*	
Total use of non-renewable primary energy resources	MJ	1,83E+03	5,33E+01	2,72E-01	0*	1,78E+03	0*	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,62E+02	2,00E+00	0*	0*	2,60E+02	0*	
Use of renewable primary energy resources used as raw material	MJ	1,66E-01	1,66E-01	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,83E+03	5,11E+01	2,72E-01	0*	1,78E+03	0*	
Use of non renewable primary energy resources used as raw material	MJ	2,20E+00	2,20E+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	2,41E+01	2,39E+01	0*	0*	5,36E-02	1,40E-01	
Non hazardous waste disposed	kg	3,83E+02	1,57E+00	0*	0*	3,81E+02	0*	
Radioactive waste disposed	kg	2,53E-01	5,53E-04	0*	0*	2,52E-01	0*	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	8,50E-02	9,03E-03	0*	7,03E-02	0*	5,66E-03	
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	1,66E-02	0*	0*	0*	0*	1,66E-02	
Exported Energy	MJ	5,92E-03	5,75E-03	0*	1,73E-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 v5.8.1, database version 2018-11 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.

<i>Registration number</i>	ENVPEP2010009_V1-EN	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
<i>Date of issue</i>	12/2020	<i>Supplemented by</i>	PSR-0005-ed2-EN-2016 03 29
<i>Validity period</i>	5 years	<i>Information and reference documents</i>	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<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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