

# Product Environmental Profile

## Acti 9 iCNV





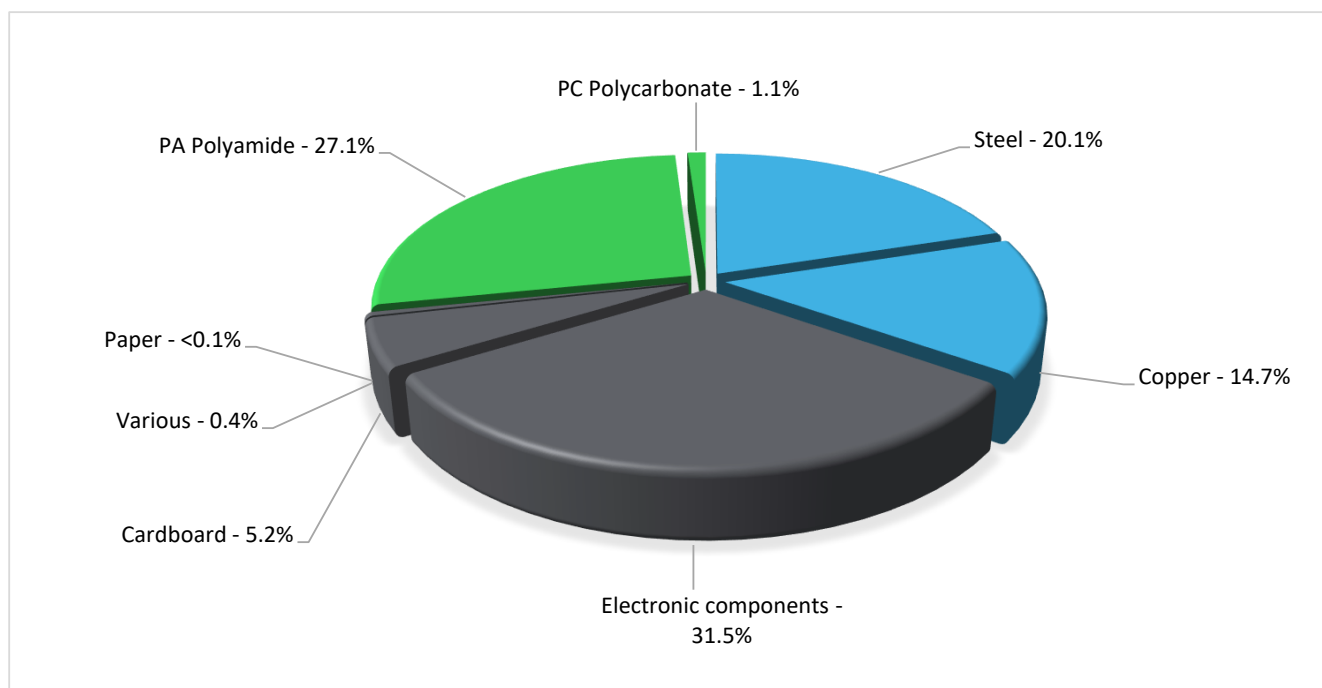
## General information

Representative product	Acti 9 iCNV - A9C69463
Description of the product	This product is purpose to provide over-voltage and under-voltage protection and integrated with auto-reset function.
Functional unit	<p>The functional unit of the Acti 9 iCNV (ref. A9C69463) is to provide over-voltage and under-voltage protection and integrated with auto-reset function for 10 years.</p> <p>It is installed after main MCB and complies with below the China standard:</p> <ol style="list-style-type: none"> <li>1. JGJ16-2008 &lt;Code for electrical design of civil buildings&gt; which is released by Ministry of Construction of the People's Republic of China</li> <li>2. JGJ242-2011 &lt;Code for electrical design of residential buildings&gt; which is released by Ministry of Housing and Urban-Rural Development of the People's Republic of China (MOHURD)</li> </ol>



## Constituent materials

Reference product mass	433 g	including the product, its packaging and additional elements and accessories
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Plastics	28.2%
Metals	34.7%
Others	37.1%



## 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 Acti 9 iCNV presents the following relevant environmental aspects

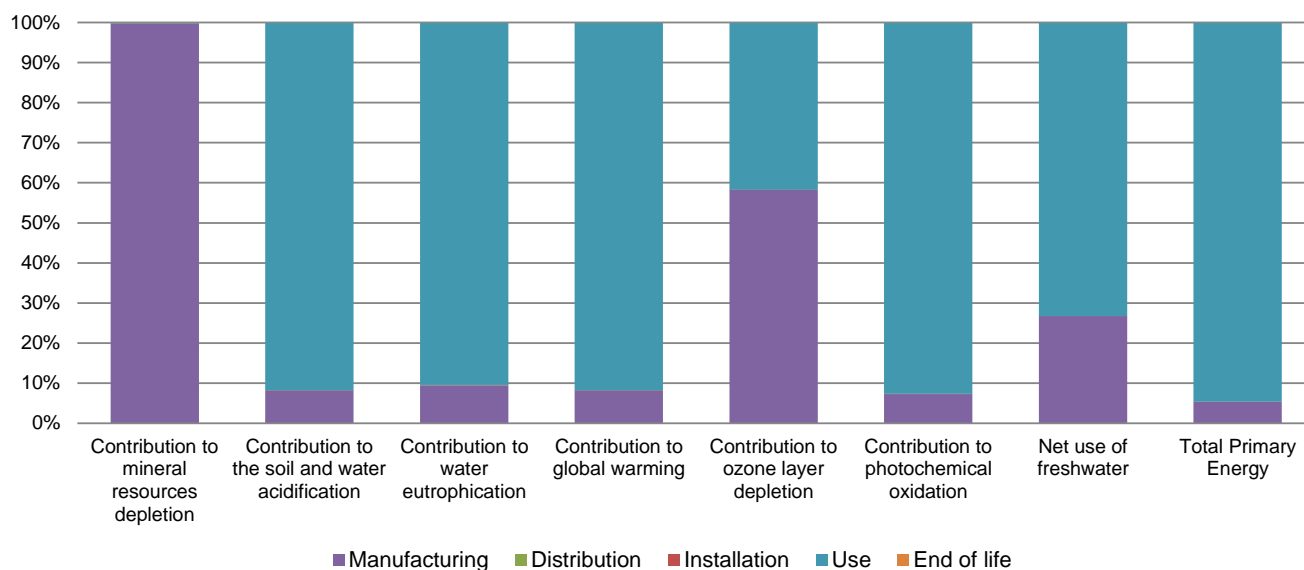
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 22.2 g, consisting of cardboard (99.1%), paper (0.9%)
<b>Installation</b>	RefA9C69463 does not require any installation operations.
<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 electronic card (65.12g) that should be separated from the stream of waste so as to optimize end-of-life treatment.</p> <p>The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website</p> <p><a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a></p> <p>Recyclability potential: <b>35%</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>	No special components needed			
<b>Use scenario</b>	The product is in active mode 100% of the time with a power use of 7.95W for 10 years. And the duration of the operating modes expressed as a percentage of the full cycle time.			
<b>Geographical representativeness</b>	China			
<b>Technological representativeness</b>	This product is purpose to provide over-voltage and under-voltage protection and integrated with auto-reset function.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN

<b>Compulsory indicators</b>		<b>Acti 9 iCNV - A9C69463</b>					
<b>Impact indicators</b>	<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Contribution to mineral resources depletion	kg Sb eq	1.62E-03	1.61E-03	0*	0*	3.11E-06	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	8.37E-01	6.90E-02	2.55E-04	0*	7.68E-01	1.45E-04
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	2.24E-01	2.14E-02	5.88E-05	0*	2.03E-01	5.25E-05
Contribution to global warming	kg CO <sub>2</sub> eq	7.72E+02	6.37E+01	0*	0*	7.08E+02	1.33E-01
Contribution to ozone layer depletion	kg CFC11 eq	1.35E-05	7.87E-06	0*	0*	5.64E-06	5.27E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	9.79E-02	7.18E-03	1.82E-05	0*	9.07E-02	1.38E-05
<b>Resources use</b>	<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Net use of freshwater	m3	1.08E+00	2.88E-01	0*	0*	7.91E-01	0*
Total Primary Energy	MJ	1.22E+04	6.55E+02	0*	0*	1.16E+04	0*



Optional indicators		Acti 9 iCNV - A9C69463					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.13E+04	5.76E+02	0*	0*	1.07E+04	0*
Contribution to air pollution	m³	7.85E+04	5.00E+03	0*	0*	7.35E+04	0*
Contribution to water pollution	m³	4.06E+04	5.36E+03	9.19E+00	0*	3.52E+04	7.51E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3.09E-02	3.09E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	6.23E+02	2.83E+01	0*	0*	5.94E+02	0*
Total use of non-renewable primary energy resources	MJ	1.16E+04	6.26E+02	0*	0*	1.10E+04	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	6.23E+02	2.83E+01	0*	0*	5.94E+02	0*
Use of renewable primary energy resources used as raw material	MJ	6.90E-02	6.90E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.16E+04	6.23E+02	0*	0*	1.10E+04	0*
Use of non renewable primary energy resources used as raw material	MJ	3.64E+00	3.64E+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	4.67E+01	2.31E+01	0*	0*	2.28E+01	7.18E-01
Non hazardous waste disposed	kg	1.43E+02	1.41E+01	0*	0*	1.29E+02	0*
Radioactive waste disposed	kg	1.02E-02	5.94E-03	1.41E-06	0*	4.23E-03	3.72E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.91E-01	2.87E-02	0*	2.21E-02	0*	1.41E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.97E-02	0*	0*	0*	0*	2.97E-02
Exported Energy	MJ	7.02E-05	6.60E-06	0*	6.36E-05	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 2016-11 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.

Registration number	ENVPEP1411015_V2-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	09/2019	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Independent verification of the declaration and data			
Internal	X	External	
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »			

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