

# Product Environmental Profile

## VIGI iTG40 1PN 30mA AC 25A





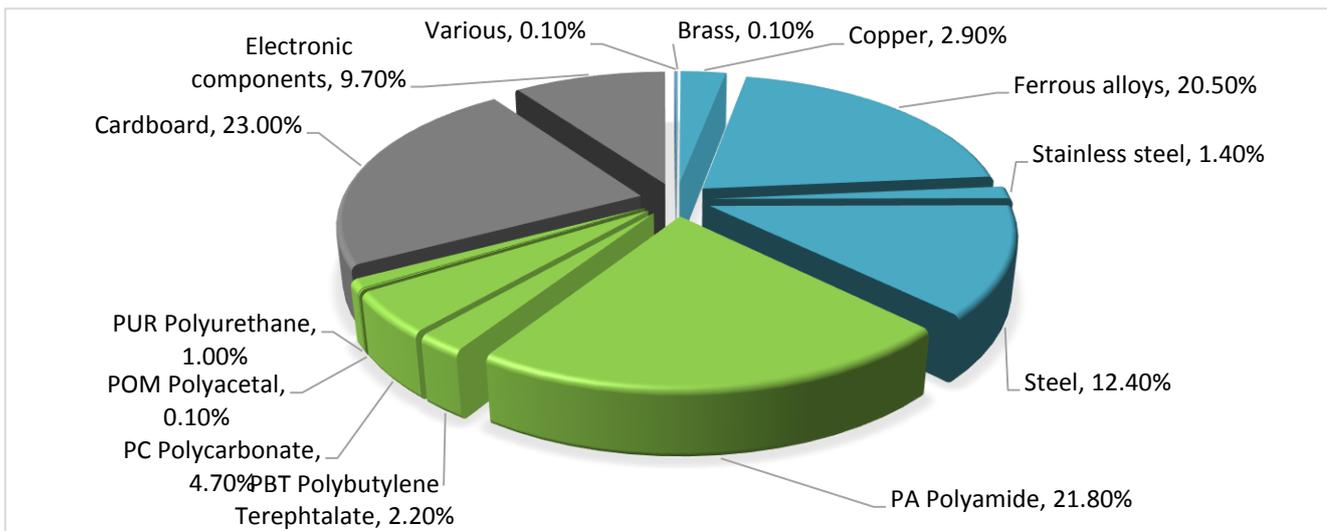
## General information

<b>Representative product</b>	VIGI iTG40 1PN 30mA AC 25A - A9Y12625
<b>Description of the product</b>	Assembled with circuit breaker, it provides protection of persons against electric shock by direct contact and indirect contact, protection against fire ignition by leakage currents, and protection of loads against supply voltage increase.
<b>Functional unit</b>	Protect during 20 years people and premises at risk of fire or explosion against insulation defects in circuit with assigned voltage 230V and rated current 25A. This protection is ensured in accordance with the following parameters: - Number of poles 1P+N - Sensitivity 30mA - Type of differential protection AC



## Constituent materials

<b>Reference product mass</b>	119.2 g including the product, its packaging and additional elements and accessories
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Plastics	29.8%
Metals	37.3%
Others	32.8%



## 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

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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 VIGI iTG40 1PN 30mA AC 25A presents the following relevant environmental aspects

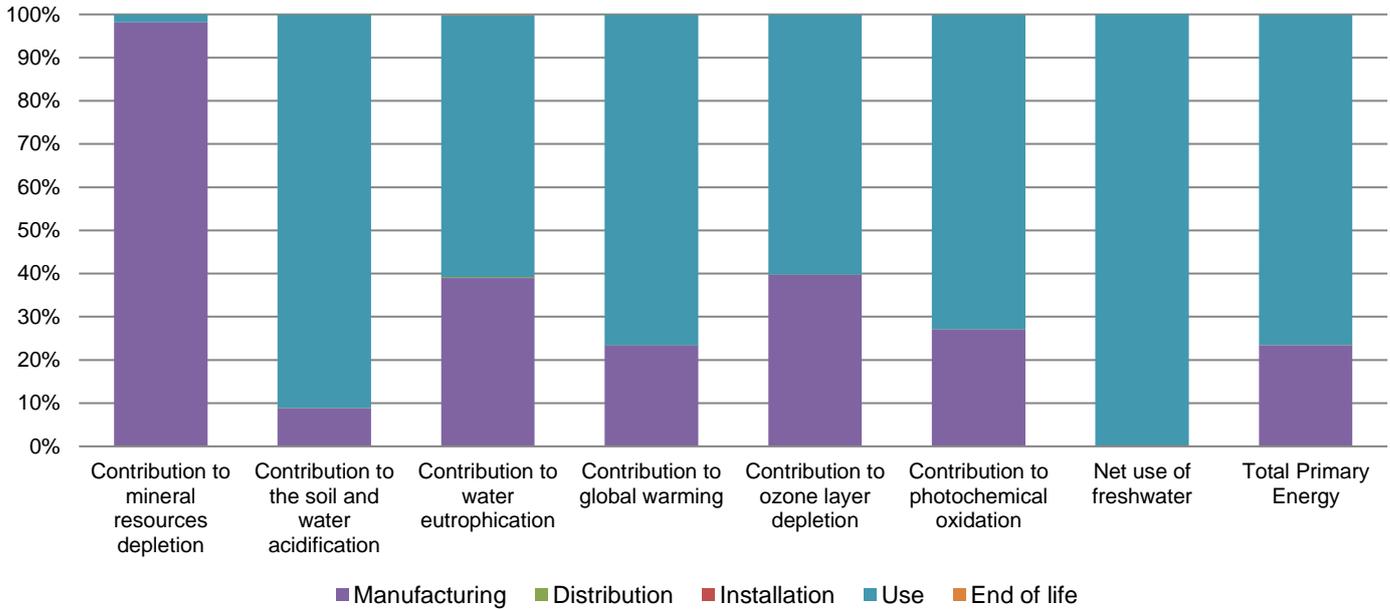
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 22.4 g, consisting of Cardboard 100%
<b>Installation</b>	Ref A9Y12625 does not require any installation operations
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.  Recyclability potential: <b>94%</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).



## Environmental impacts

<b>Reference life time</b>	20 years			
<b>Product category</b>	Blocks and differential switches			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	Load rate: 50% of In Use time rate: 30% of RLT			
<b>Geographical representativeness</b>	Europe			
<b>Technological representativeness</b>	Assembled with circuit breaker, it provides protection of persons against electric shock by direct contact and indirect contact, protection against fire ignition by leakage currents, and protection of loads against supply voltage increase.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: France	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		VIGI iTG40 1PN 30mA AC 25A - A9Y12625					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.03E-04	1.01E-04	0*	0*	1.86E-06	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	9.79E-02	8.61E-03	7.02E-05	0*	8.92E-02	2.88E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	8.86E-03	3.46E-03	1.62E-05	0*	5.38E-03	8.25E-06
Contribution to global warming	kg CO <sub>2</sub> eq	2.79E+01	6.52E+00	1.54E-02	0*	2.14E+01	1.62E-02
Contribution to ozone layer depletion	kg CFC11 eq	2.31E-06	9.21E-07	0*	0*	1.39E-06	6.68E-10
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	6.72E-03	1.82E-03	5.01E-06	0*	4.90E-03	2.97E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	7.75E+01	3.15E-02	0*	0*	7.75E+01	0*
Total Primary Energy	MJ	5.58E+02	1.30E+02	2.17E-01	0*	4.27E+02	1.39E-01



Optional indicators		VIGI iTG40 1PN 30mA AC 25A - A9Y12625						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	3.40E+02	9.66E+01	2.16E-01	0*	2.43E+02	1.27E-01	
Contribution to air pollution	m³	2.26E+03	1.34E+03	6.54E-01	0*	9.20E+02	1.01E+00	
Contribution to water pollution	m³	1.37E+03	4.87E+02	2.53E+00	0*	8.82E+02	1.24E+00	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	4.97E-04	4.97E-04	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	5.50E+01	7.31E-01	0*	0*	5.43E+01	0*	
Total use of non-renewable primary energy resources	MJ	5.03E+02	1.30E+02	2.17E-01	0*	3.73E+02	1.39E-01	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.46E+01	2.69E-01	0*	0*	5.43E+01	0*	
Use of renewable primary energy resources used as raw material	MJ	4.62E-01	4.62E-01	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.01E+02	1.28E+02	2.17E-01	0*	3.73E+02	1.39E-01	
Use of non renewable primary energy resources used as raw material	MJ	1.49E+00	1.49E+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	2.88E+00	2.72E+00	0*	0*	1.11E-02	1.53E-01	
Non hazardous waste disposed	kg	8.17E+01	2.01E+00	0*	0*	7.97E+01	0*	
Radioactive waste disposed	kg	5.40E-02	7.73E-04	0*	0*	5.32E-02	0*	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	6.51E-02	7.48E-03	0*	2.23E-02	0*	3.53E-02	
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	2.76E-03	3.51E-04	0*	0*	0*	2.41E-03	
Exported Energy	MJ	0.00E+00	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 EIME v5.6.0.1, 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.

<i>Registration number</i>	ENVPEP1801004_V1-EN	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
<i>Date of issue</i>	01/2018	<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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ENVPEP1801004\_V1-EN

Published by Schneider Electric

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01/2018