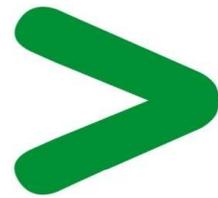


Product Environmental Profile

Acti 9 IsoBar Distribution Board

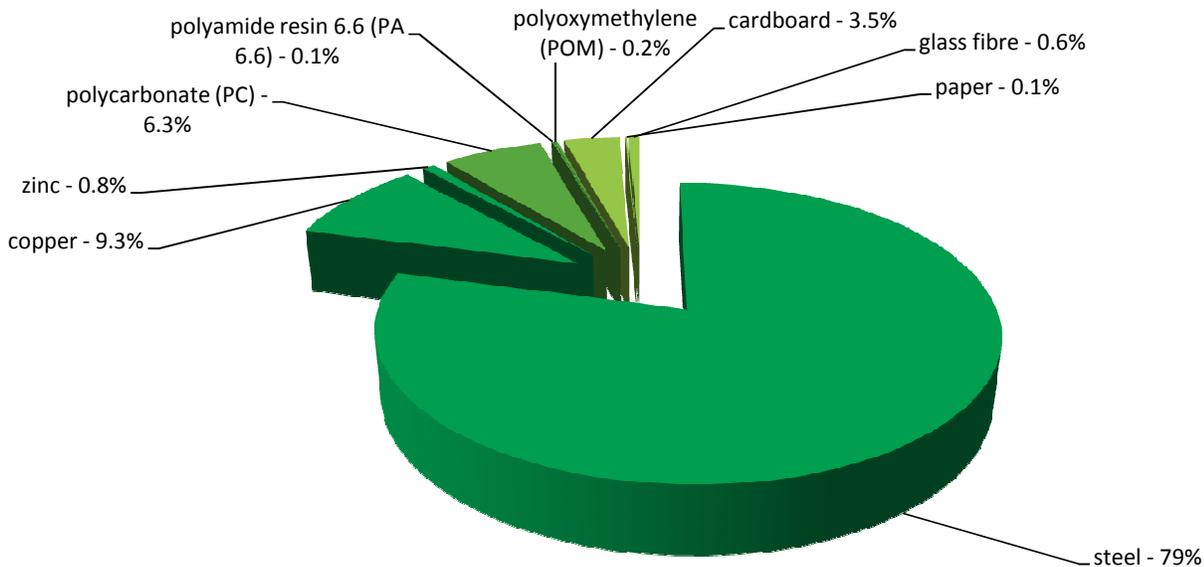


General information

Representative product	Acti 9 Isobar Distribution Board -SEA9BN12
Description of the product	Acti 9 Isobar Distribution Board is used to distribute electrical energy. It complements the Acti9 offer, based on the design of the proven Isobar range with added features for increased safety and measurement. Acti9 Isobar incorporates more cable space and an interlock to prevent inadvertent operation of the Isobar switch disconnecter unless an outgoing device is installed.
Functional unit	To distribute electricity up to 250A by dividing an electrical power feed into sub-circuits up to 24 TP ways during 20 years, while the degree of protection is IP3X.

Constituent materials

Reference product mass	14400 g including the product, its packaging and additional elements and accessories
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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>

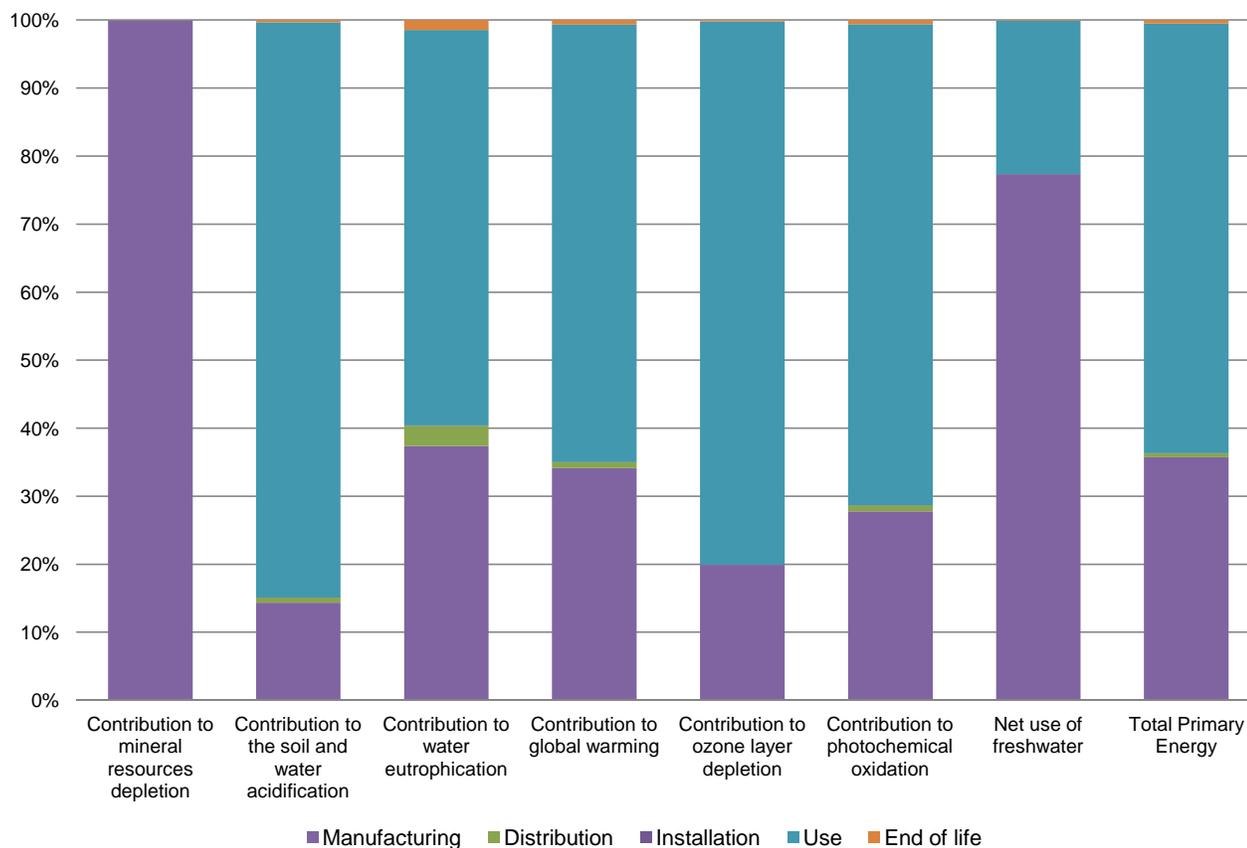
Additional environmental information

The Acti 9 Isobar Distribution Board 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 506.1 g, consisting of cardboard (97%), paper (3%) Product distribution optimised by setting up local distribution centres
Installation	Ref SEA9BN12 does not require any installation operations
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 No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process. Recyclability potential: 87% 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	20 years			
Product category	Passive products - continuous operation			
Installation elements	No special components needed			
Use scenario	Product dissipation is 1.3 W at loading rate of 30% and service uptime percentage is 100%			
Geographical representativeness	United Kingdom			
Technological representativeness	Acti 9 Isobar Distribution Board is used to distribute electrical energy. It complements the Acti9 offer, based on the design of the proven Isobar range with added features for increased safety and measurement. Acti9 Isobar incorporates more cable space and an interlock to prevent inadvertent operation of the Isobar switch disconnecter unless an outgoing device is installed.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: United Kingdom	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		Acti 9 Isobar Distribution Board - SEA9BN12					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.86E-02	4.85E-02	0*	0*	6.13E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.20E+00	1.73E-01	8.48E-03	1.45E-04	1.02E+00	3.85E-03
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	6.55E-02	2.45E-02	1.95E-03	3.42E-05	3.81E-02	9.36E-04
Contribution to global warming	kg CO ₂ eq	2.09E+02	7.13E+01	1.86E+00	4.70E-02	1.34E+02	1.38E+00
Contribution to ozone layer depletion	kg CFC11 eq	4.09E-05	8.16E-06	0*	0*	3.27E-05	8.10E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	6.80E-02	1.89E-02	6.05E-04	1.57E-05	4.81E-02	4.15E-04
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.56E+00	1.20E+00	1.66E-04	0*	3.51E-01	1.57E-03
Total Primary Energy	MJ	4.31E+03	1.54E+03	2.63E+01	8.12E-01	2.72E+03	2.14E+01



Optional indicators		Acti 9 Isobar Distribution Board - SEA9BN12					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.28E+03	8.51E+02	2.61E+01	6.67E-01	1.39E+03	1.76E+01
Contribution to air pollution	m ³	3.57E+04	2.97E+04	7.90E+01	5.17E+00	5.77E+03	1.37E+02
Contribution to water pollution	m ³	1.38E+04	7.73E+03	3.06E+02	5.52E+00	5.64E+03	1.49E+02
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.25E-01	2.25E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.14E+02	1.90E+01	3.50E-02	0*	1.95E+02	2.16E-02
Total use of non-renewable primary energy resources	MJ	4.10E+03	1.52E+03	2.62E+01	8.11E-01	2.53E+03	2.14E+01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.04E+02	8.61E+00	3.50E-02	0*	1.95E+02	2.16E-02
Use of renewable primary energy resources used as raw material	MJ	1.04E+01	1.04E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.07E+03	1.49E+03	2.62E+01	8.11E-01	2.53E+03	2.14E+01
Use of non renewable primary energy resources used as raw material	MJ	3.25E+01	3.25E+01	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	1.40E+03	1.39E+03	0*	5.24E-01	0*	1.51E+01
Non hazardous waste disposed	kg	5.61E+02	5.81E+01	6.60E-02	0*	5.03E+02	5.95E-02
Radioactive waste disposed	kg	4.30E-01	1.95E-02	4.70E-05	0*	4.10E-01	9.16E-05
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.39E+01	1.76E+00	0*	4.90E-01	0*	1.16E+01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	5.37E-02	6.82E-03	0*	0*	0*	4.69E-02
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 v5.5, database version 2015-04.

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>Validity period</i>	5 years	<i>Information and reference</i>	
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</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 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			

Schneider Electric Industries SAS

Country Customer Care Center: www.schneider-electric.com/contact

35, rue Joseph Monier

CS 30323

F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439

Capital social 896 313 776 €

www.schneider-electric.com

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