Product Environmental Profile

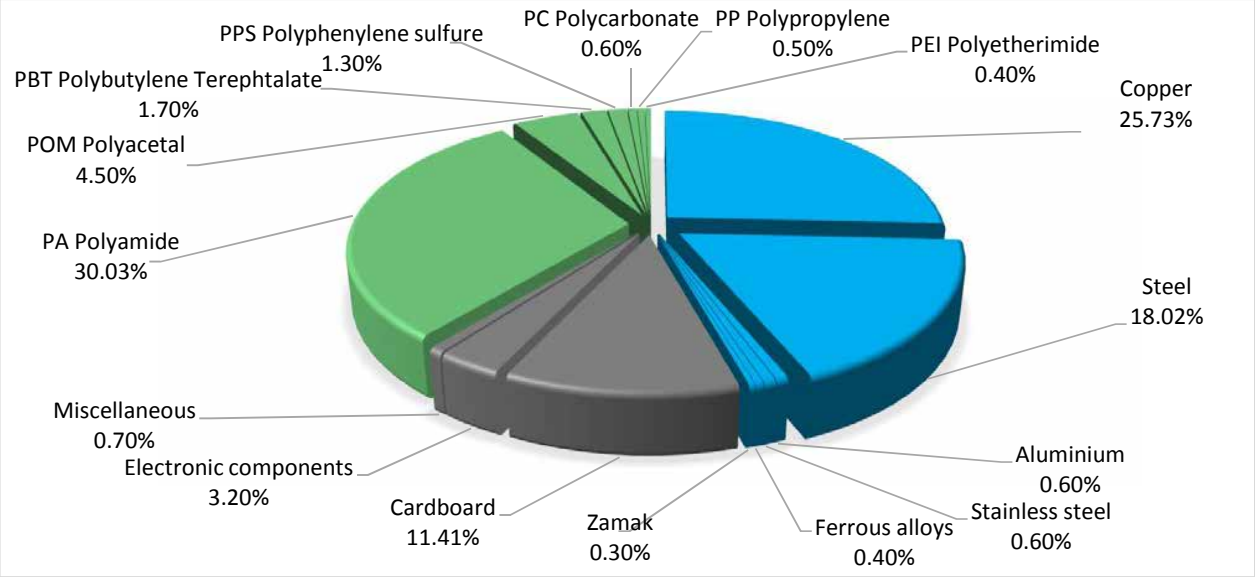
QOvs RCBO C 50A 1P-Ns 100mA 10000A AC TYPE

General information

Representative product	QOvs RCBO C 50A 1P-Ns 100mA 10000A AC TYPE - QO150C10RCBO100F
Description of the product	Protect the installation against overloads and short circuits and protect people and premises at risk of fire or explosion against insulation defects
Functional unit	Protect during 20 years the installation against overloads and short-circuits and people and premises at risk of fire or explosion against insulation defects in circuit with assigned voltage 230/240V AC and rated current 50A. This protection is ensured in accordance with the following parameters: - Number of poles 1P+N - Rated breaking capacity 10kA - Tripping curve C - Sensitivity 100mA - Type of differential protection AC

Constituent materials

Reference product mass	215 g	including the product, its packaging and additional elements and accessories



	Plastics	39.0%
	Metals	45.6%
	Others	15.3%

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

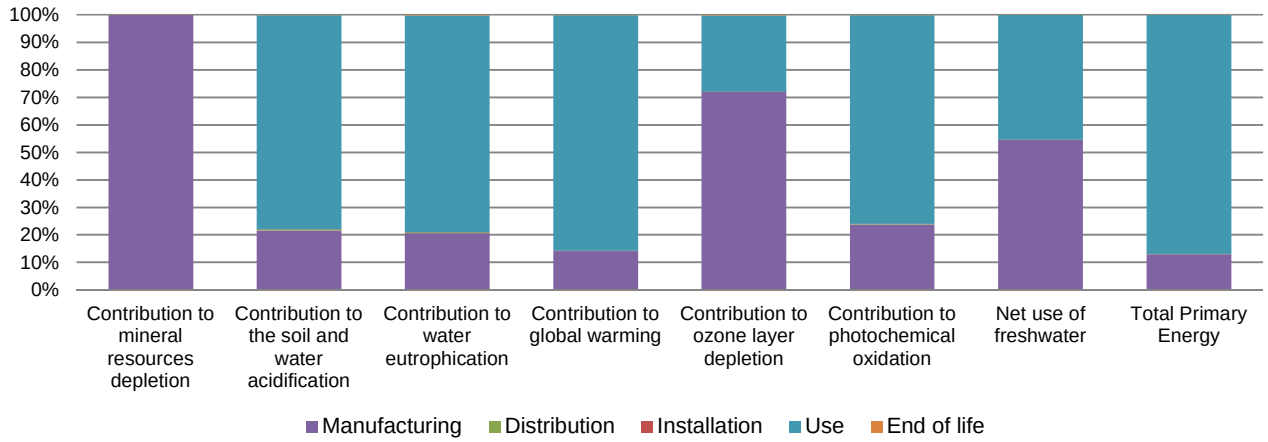
Additional environmental information

The QOvs RCBO C 50A 1P-Ns 100mA 10000A AC TYPE presents the following relevent 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 25.6 g, consisting of Paper(100%)
Installation	Ref QO150C10RCBO100F 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 This product contains electronic card (5.6g) that should be separated from the stream of waste so as to optimize end-of-life treatment. 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 http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: **48%** 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	Differential circuit breaker			
Installation elements	No special components needed			
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT			
Geographical representativeness	China			
Technological representativeness	Protect the installation against overloads and short circuits and protect people and premises at risk of fire or explosion against insulation defects			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: Thailand	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

Compulsory indicators		QOvs RCBO C 50A 1P-Ns 100mA 10000A AC TYPE - QO150C10RCBO100F					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.38E-04	4.38E-04	0*	0*	9.30E-08	0*
Contribution to the soil and water acidification	kg SO_2 eq	2.95E-02	6.37E-03	1.27E-04	0*	2.29E-02	5.88E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	7.69E-03	1.58E-03	2.92E-05	0*	6.06E-03	1.66E-05
Contribution to global warming	kg CO_2 eq	2.47E+01	3.50E+00	2.77E-02	0*	2.12E+01	3.20E-02
Contribution to ozone layer depletion	kg CFC11 eq	6.09E-07	4.39E-07	0*	0*	1.69E-07	1.37E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	3.58E-03	8.50E-04	9.04E-06	0*	2.71E-03	6.10E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	5.21E-02	2.85E-02	0*	0*	2.36E-02	2.70E-05
Total Primary Energy	MJ	3.99E+02	5.19E+01	3.92E-01	0*	3.46E+02	2.85E-01



Optional indicators		QOvs RCBO C 50A 1P-Ns 100mA 10000A AC TYPE - QO150C10RCBO100F					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3.73E+02	4.16E+01	3.90E-01	0*	3.31E+02	2.60E-01
Contribution to air pollution	m^3	3.00E+03	8.05E+02	1.18E+00	0*	2.20E+03	2.06E+00
Contribution to water pollution	m^3	1.59E+03	5.34E+02	4.56E+00	0*	1.05E+03	2.51E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	9.79E-03	9.79E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.91E+01	1.35E+00	0*	0*	1.78E+01	0*
Total use of non-renewable primary energy resources	MJ	3.80E+02	5.05E+01	3.92E-01	0*	3.29E+02	2.84E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.86E+01	8.23E-01	0*	0*	1.78E+01	0*
Use of renewable primary energy resources used as raw material	MJ	5.25E-01	5.25E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.78E+02	4.82E+01	3.92E-01	0*	3.29E+02	2.84E-01
Use of non renewable primary energy resources used as raw material	MJ	2.28E+00	2.28E+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	1.30E+01	1.20E+01	0*	0*	6.82E-01	2.95E-01
Non hazardous waste disposed	kg	4.73E+00	8.91E-01	9.86E-04	0*	3.84E+00	8.71E-04
Radioactive waste disposed	kg	7.39E-04	6.10E-04	7.02E-07	0*	1.26E-04	1.39E-06
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.35E-01	1.71E-02	0*	2.54E-02	0*	9.24E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	5.13E-03	6.02E-04	0*	0*	0*	4.53E-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.

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		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	External X		
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 :2014			
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			

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