Product Environmental Profile

RZMProtection Module







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General information

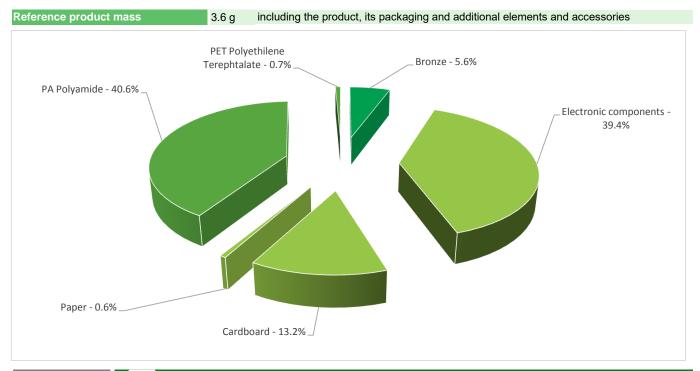
Representative product RZM Protection Module -RZM021FP

Description of the product Protection module with Varistor and green LED, Control circuit voltage: 110~230 V AC/DC

Functional unit

Protect during 20 years against transient overvoltages electrical equipements connected to electrical networks with a rated operational voltage up to 1000 V AC or 1500 V DC

Constituent materials



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

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Additional environmental information

The RZM Protection Module presents the following relevent environmental aspects							
Manufacturing	Manufactured at a production site complying with the regulations						
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 0.5 g, consisting of Cardboard(95%), PET film(5%) Product distribution optimised by setting up local distribution centres						
Installation	RZM021FP 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: 6%	, D	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 0.105 W full load, loading rate is 100% and service uptime percentage is 100%						
Geographical representativeness	Europe						
Technological representativeness	Protection module with Varistor and green LED, Control circuit voltage: 110~230 V AC/DC						
	Manufacturing	Installation	Use	End of life			
Energy model used	Energy model used: China	Electricity from hydro power; AC; production mix, at power plant; 230V; RER	Electricity from hydro power; AC; production mix, at power plant; 230V; RER	Electricity from hydro power; AC; production mix, at power plant; 230V; RER			

Compulsory indicators		RZM Protection Module - RZM021FP					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	8,27E-06	3,54E-06	0*	0*	4,72E-06	0*
Contribution to the soil and water acidification kg		3,46E-04	1,94E-04	2,12E-06	1,48E-07	1,49E-04	9,46E-07

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Optional indicators		RZM Protection Module - RZM021FP					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,21E+00	7,09E-01	6,53E-03	6,80E-04	4,91E-01	4,15E-03
Contribution to air pollution	m³	9,13E+00	4,98E+00	1,98E-02	5,27E-03	4,10E+00	3,31E-02
Contribution to water pollution	m³	8,70E+00	5,47E+00	7,64E-02	5,63E-03	3,11E+00	4,02E-02
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4,49E-04	4,49E-04	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	7,80E+01	2,10E-02	0*	0*	7,80E+01	0*
Total use of non-renewable primary energy resources	MJ	1,21E+00	6,57E-01	6,56E-03	7,46E-04	5,37E-01	4,54E-03
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7,80E+01	2,10E-02	0*	0*	7,80E+01	0*
Use of renewable primary energy resources used as raw material	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,14E+00	5,87E-01	6,56E-03	7,46E-04	5,37E-01	4,54E-03
Use of non renewable primary energy resources used as raw material	MJ	6,96E-02	6,96E-02	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	2,94E-02	4,11E-03	0*	5,38E-04	1,88E-02	5,96E-03
Non hazardous waste disposed	kg	1,12E+00	1,25E-02	0*	0*	1,11E+00	0*
Radioactive waste disposed	kg	2,75E-05	8,74E-06	1,18E-08	3,52E-09	1,88E-05	2,25E-08

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Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	7,59E-04	9,38E-05	0*	4,95E-04	0*	1,70E-04
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	8,30E-05	1,05E-05	0*	0*	0*	7,25E-05
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 2016-11.

The Modify manually the text to mention the equal impacting phases 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 N°		ENVPEP1705013_V1	Drafting rules	PCR-ed3-EN-2015 04 02			
Date of issue		06/2017	Supplemented by	PSR-0005-ed2-EN-2016 03 29			
Validity period		5 years	Information and reference	www.pep-ecopassport.org			
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010							
Internal	nternal X External						
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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