

Product Environmental Profile

VIGIREX RMH 220-240VAC - Earth leakage monitoring relay





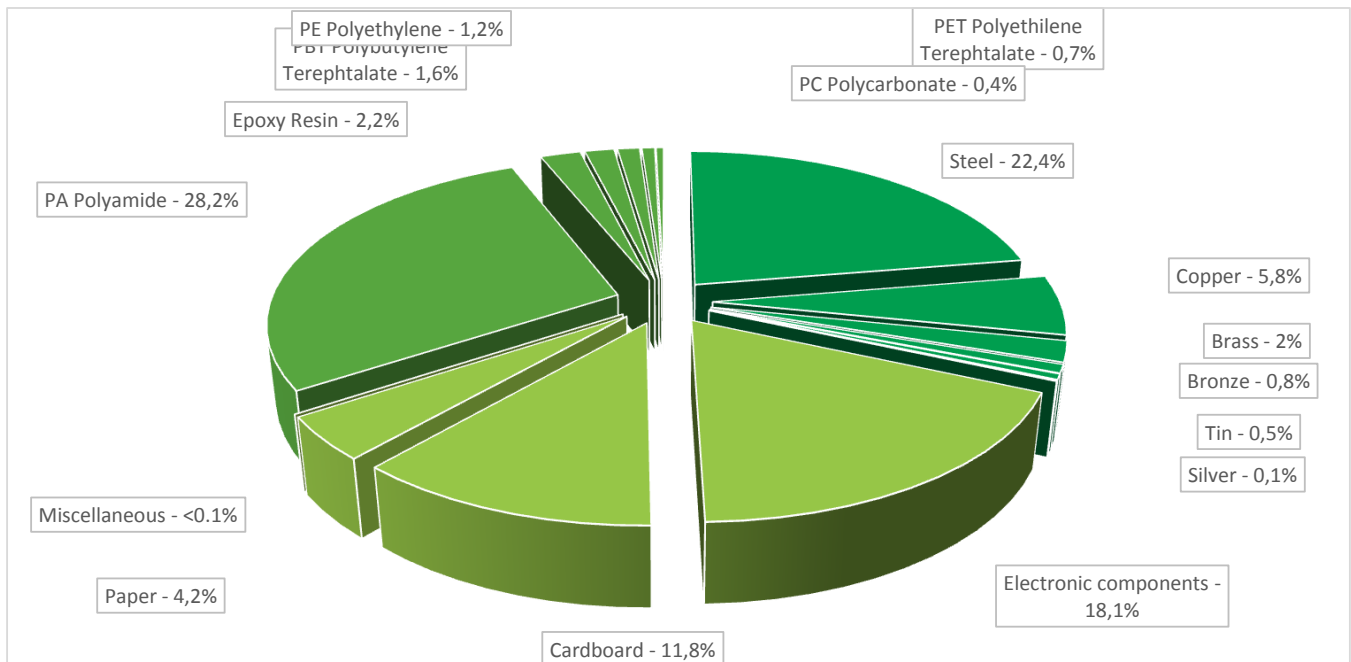
General information

Representative product	VIGIREX RMH 220-240VAC - Earth leakage monitoring relay - LV481004
Description of the product	Vigirex RMH earth leakage relays, with associated toroids and multiplexer RM12T, measure earth-leakage current in the electrical installation. They provide earth-leakage monitoring.
Functional unit	Provide during 10 years earth leakage monitoring of a low voltage electrical distribution system.



Constituent materials

Reference product mass 426 g including the product, its packaging and additional elements and accessories



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 VIGIREX RMH 220-240VAC - Earth leakage monitoring relay presents the following relevant environmental aspects

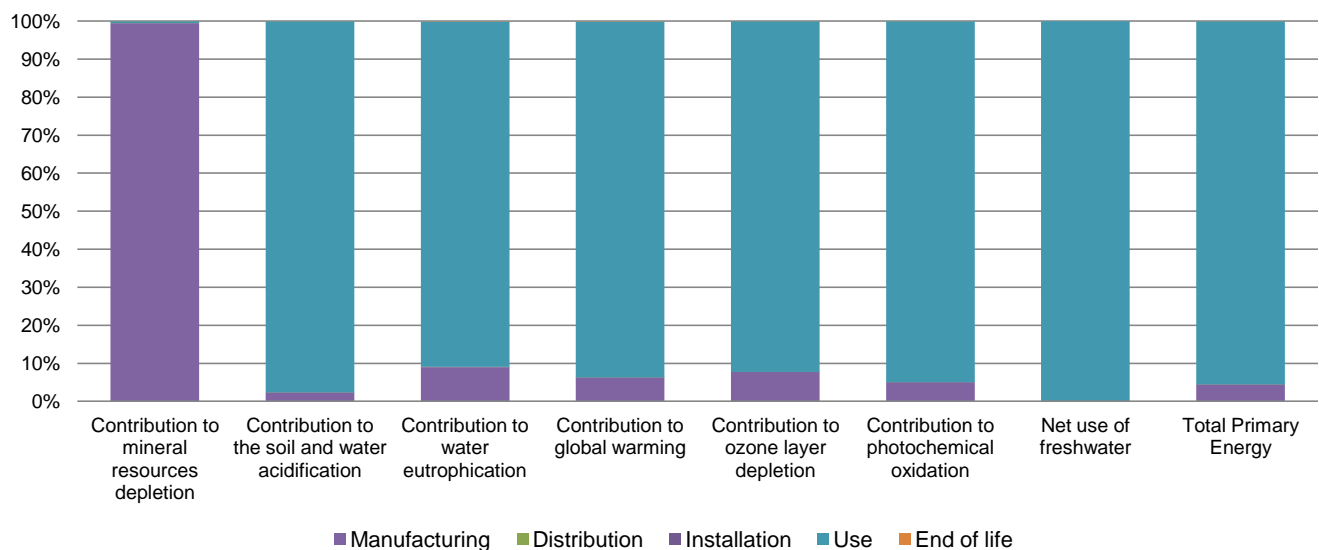
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 70 g, consisting of Cardboard (49.4g), Paper (17.7g), PE film (2.9g)
Installation	Vigirex RMH monitoring relay does not require any installation operations
Use	The product does not require special maintenance operations.
End of life	<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 4 electronic cards (24g, 44g, 16g and 144g) 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 http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</p> <p>Recyclability potential: 32% 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

Reference life time	10 years			
Product category	Active products			
Installation elements	No special components needed			
Use scenario	Consumed power is 8 Watts 5 % of the time in Active mode and 4 Watts 95 % of the time in Sleep mode			
Geographical representativeness	Europe, UAE, China			
Technological representativeness	Vigirex RMH earth leakage relays, with associated toroids and multiplexer RM12T, measure earth-leakage current in the electrical installation. They provide earth-leakage monitoring.			
Energy model used	Manufacturing	Installation	Use	End of life
	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		VIGIREX RMH 220-240VAC - Earth leakage monitoring relay - LV481004					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2,99E-03	2,98E-03	0*	0*	1,57E-05	0*
Contribution to the soil and water acidification	kg SO ₂ eq	7,70E-01	1,78E-02	2,51E-04	0*	7,52E-01	1,66E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	5,00E-02	4,50E-03	5,78E-05	0*	4,54E-02	7,88E-05
Contribution to global warming	kg CO ₂ eq	1,93E+02	1,21E+01	5,50E-02	0*	1,80E+02	2,41E-01
Contribution to ozone layer depletion	kg CFC11 eq	1,27E-05	9,81E-07	0*	0*	1,17E-05	8,46E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	4,35E-02	2,18E-03	1,79E-05	0*	4,13E-02	1,40E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	6,54E+02	1,31E-01	0*	0*	6,54E+02	0*
Total Primary Energy	MJ	3,77E+03	1,68E+02	7,77E-01	0*	3,60E+03	7,16E-01



Optional indicators		VIGIREX RMH 220-240VAC - Earth leakage monitoring relay - LV481004					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2,20E+03	1,56E+02	7,72E-01	0*	2,05E+03	6,68E-01
Contribution to air pollution	m ³	9,27E+03	1,50E+03	2,34E+00	0*	7,76E+03	5,18E+00
Contribution to water pollution	m ³	8,85E+03	1,39E+03	9,04E+00	0*	7,44E+03	1,07E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2,77E-02	2,77E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	4,62E+02	3,84E+00	0*	0*	4,58E+02	0*
Total use of non-renewable primary energy resources	MJ	3,31E+03	1,64E+02	7,76E-01	0*	3,14E+03	7,15E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4,61E+02	2,82E+00	0*	0*	4,58E+02	0*
Use of renewable primary energy resources used as raw material	MJ	1,02E+00	1,02E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3,30E+03	1,60E+02	7,76E-01	0*	3,14E+03	7,15E-01
Use of non renewable primary energy resources used as raw material	MJ	4,56E+00	4,56E+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	2,62E+01	2,53E+01	0*	7,27E-02	9,40E-02	7,29E-01
Non hazardous waste disposed	kg	6,75E+02	2,82E+00	0*	0*	6,72E+02	0*
Radioactive waste disposed	kg	4,50E-01	1,30E-03	0*	0*	4,49E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2,03E-01	2,43E-02	0*	6,76E-02	0*	1,11E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	6,88E-02	4,48E-03	0*	0*	0*	6,44E-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 2016-11.

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 N°	SCHN-00201-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH08	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Date of issue	02/2017	Information and reference documents	www.pep-ecopassport.org
		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)			
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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