Product Environmental Profile

Zelio RE17 Timing Relay







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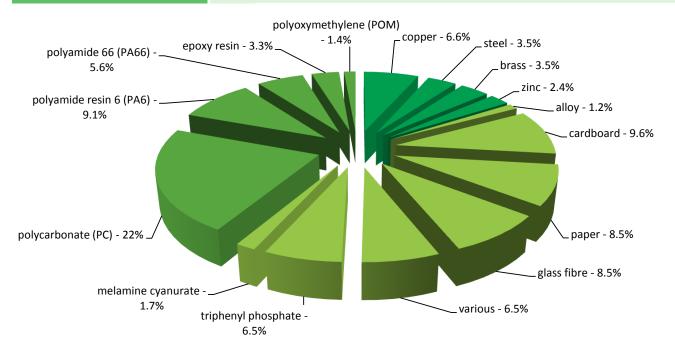
General information

Representative product	Zelio RE17 Timing Relay - RE17RAMU		
Description of the product	The product is a control relay with a time delay built in. The main purpose of the product is to time events in industrial automation system by closing or opening contacts before, during or after a set timing period.		
Description of the range	This range consists of RE17L and RE17R series designed for direct mounting and mounting on DIN rails. Input voltage range from 24 to 240 volts, output is either single or multi-timing from 50 ms to 300 hrs. The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.		
Functional unit	To control an event based on time during 10 years with a 30% use rate, in compliance with French standard.		

Constituent materials

Reference product mass

82,53 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.

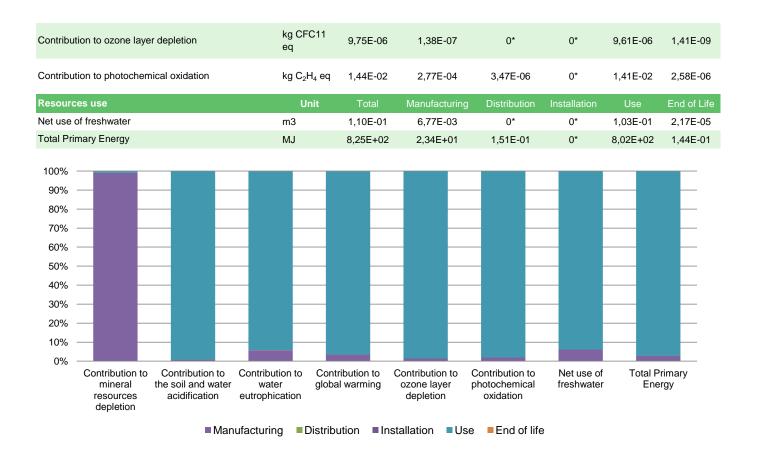
Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-

(1) Additional environmental information

	The Zelio RE17 Timing Relay presents the following relevent environmental aspects						
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified						
	Weight and volume of the packaging optimized, based on the European Union's packaging directive						
Distribution	Packaging weight is 14,8 g, consisting of cardboard (53.4%), paper (46.6%)						
	Product distribution optimised by setting up local distribution centres						
Installation	Ref RE17RAMU does not require any installation operations						
Use	The product does not require special maintenance operations.						
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials						
	This product contains electronic card (20.8g) that should be separated from the stream of waste so as to optimize end- of-life treatment.						
End of life	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						
	Based on "ECO'DEEE recyclability and recoverability calculation method" Recyclability potential: 24% (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).						

Reference life time	10 years					
Product category	Passive products - non-continuous operation					
Installation elements	No special components needed					
Use scenario	Product dissipation is 1,5 W full load, loading rate is 30% and service uptime percentage is 30%. The product is in active mode 30% of the time with a power use of 1.5W and in stand-by mode 70% of the time with a power use of 0.45W, for 10 years					
Geographical representativeness	World					
Technological representativeness	The product is a control relay with a time delay built in. The main purpose of the product is to time events in industrial automation system by closing or opening contacts before, during or after a set timing period.					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: Indonesia (Schneider Electric Batam)	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	Compulsory indicators Zelio RE17 Timing Relay - RE17RAMU						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1,87E-04	1,85E-04	0*	0*	1,80E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	3,02E-01	2,53E-03	4,86E-05	0*	2,99E-01	0*
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1,19E-02	6,87E-04	1,12E-05	0*	1,12E-02	1,37E-05
Contribution to global warming	kg CO₂ eq	4,11E+01	1,43E+00	1,06E-02	0*	3,96E+01	4,11E-02



Optional indicators	Zelio RE17 Timing Relay - RE17RAMU						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	4,26E+02	1,85E+01	1,50E-01	0*	4,08E+02	1,21E-01
Contribution to air pollution	m³	1,86E+03	1,59E+02	4,53E-01	0*	1,70E+03	9,47E-01
Contribution to water pollution	m³	1,90E+03	2,36E+02	1,75E+00	0*	1,66E+03	1,86E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	8,71E-03	8,71E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	5,80E+01	6,36E-01	0*	0*	5,74E+01	0*
Total use of non-renewable primary energy resources	MJ	7,67E+02	2,28E+01	1,50E-01	0*	7,44E+02	1,44E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5,78E+01	4,73E-01	0*	0*	5,74E+01	0*
Use of renewable primary energy resources used as raw material	MJ	1,63E-01	1,63E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7,66E+02	2,13E+01	1,50E-01	0*	7,44E+02	1,44E-01
Use of non renewable primary energy resources used as raw material	MJ	1,50E+00	1,50E+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	1,47E+00	1,29E+00	0*	2,97E-02	0*	1,45E-01
Non hazardous waste disposed	kg	1,48E+02	1,84E-01	0*	0*	1,48E+02	0*
Radioactive waste disposed	kg	1,21E-01	1,12E-04	0*	0*	1,21E-01	0*

Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1,14E-02	9,68E-04	0*	0*	0*	1,04E-02
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,11E-02	2,66E-04	0*	0*	0*	1,08E-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).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

Depending on the impact analysis, the environmental indicators (without Contribution to mineral resources depletion) of other products in this family may be proportional extrapolated by energy consumption values. For Contribution to mineral resources depletion, impact may be proportional extrapolated by mass of the product.

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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Date of issue		09/2016					
Validity period		5 years	Information and reference documents	www.pep-ecopassport.org			
Independent verifica	Independent verification of the declaration and data, in compliance with ISO 14025 : 2010						
Internal	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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