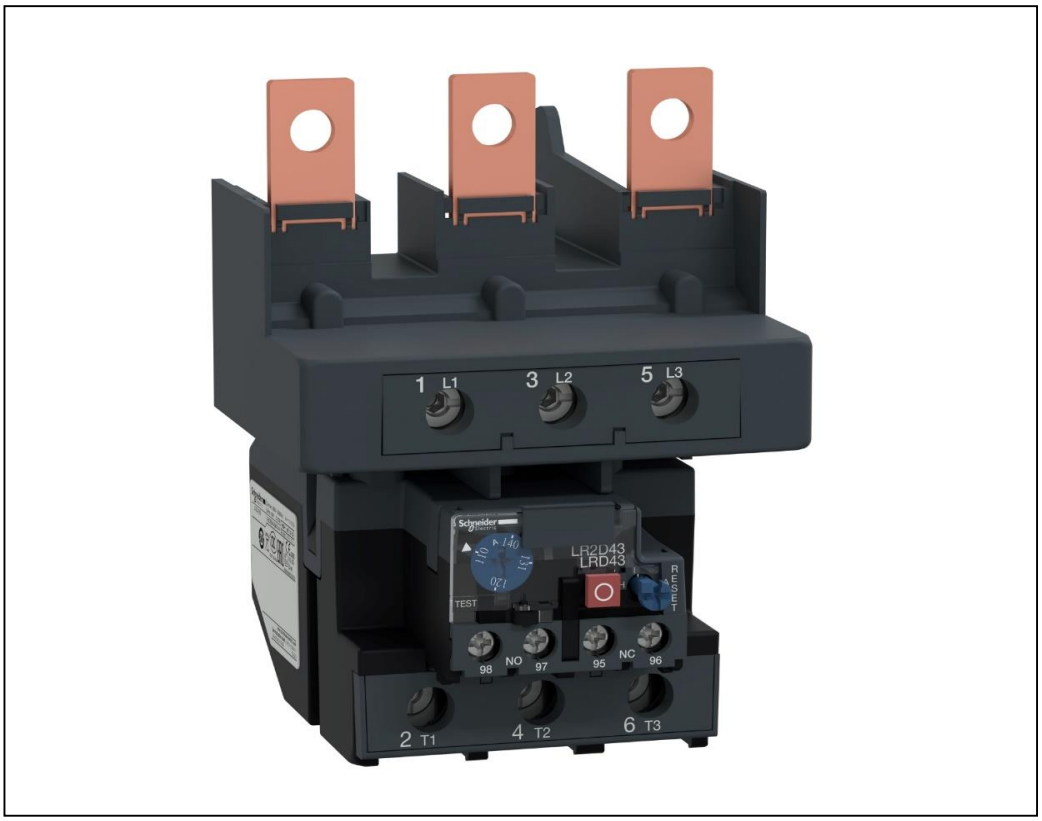
Product Environmental Profile

thermal overload relays, TeSys Deca, 110-140A, lug clamps

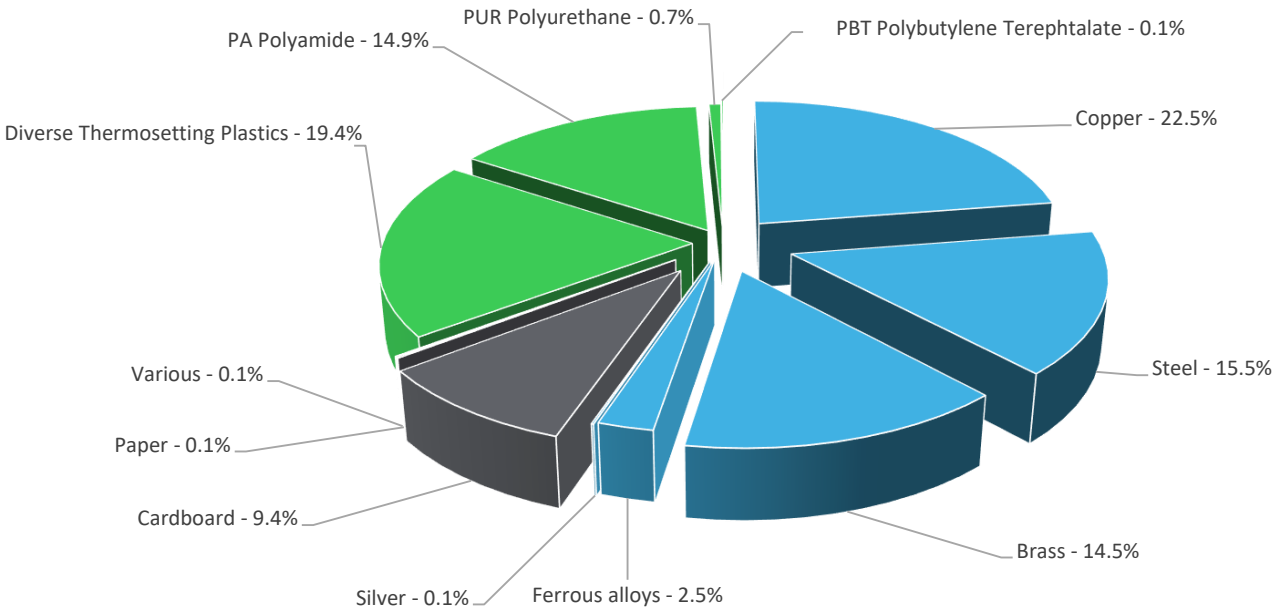


General information

Representative product	thermal overload relays, TeSys Deca, 110-140A, lug clamps - LRD4369
Description of the product	The main purpose of the thermal overload relays is to detect overload currents in order to protect the motor.
Functional unit	The functional unit of the LRD4369 is to detect overload currents in order to protect the load for 20 years. Standardized product characteristics to provide: rated insulation voltage: 1000V conventional free air thermal current: 5A rated operational voltage: 1000V AC rated impulse withstand voltage: 6KV thermal protection adjustment range:110-140A thermal overload class:10A

Constituent materials

Reference product mass	836.3 g	including the product, its packaging and additional elements and accessories



	Plastics	35.3%
	Metals	55.1%
	Others	9.6%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP,

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

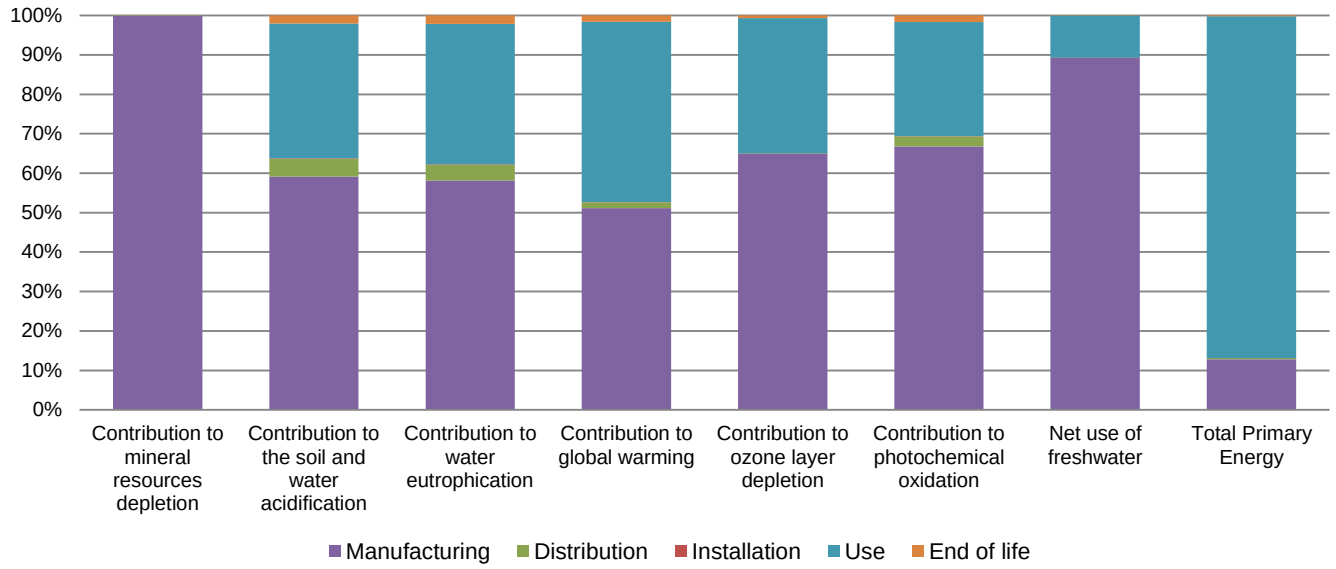
Additional environmental information

The thermal overload relays, TeSys Deca, 110-140A, lug clamps 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 76.3 g, consisting of cardboard (100%)
Installation	Ref LRD4369 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 Plastic with brominated FR17(2.66g) 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: **53%** 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	Other equipments - Passive product - non-continuous operation			
Installation elements	No special components needed			
Use scenario	load rate / rated current (In): 30 % of In percentage of utilization time: 30%			
Geographical representativeness	France			
Technological representativeness	The main purpose of the thermal overload relays is to detect overload currents in order to protect the motor.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: France	Electricity mix; AC; consumption mix, at consumer; 230V; FR	Electricity mix; AC; consumption mix, at consumer; 230V; FR	Electricity mix; AC; consumption mix, at consumer; 230V; FR

Compulsory indicators	thermal overload relays, TeSys Deca, 110-140A, lug clamps - LRD4369						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.61E-03	1.61E-03	0*	0*	9.52E-07	0*
Contribution to the soil and water acidification	kg SO_2 eq	1.09E-02	6.45E-03	4.92E-04	1.72E-05	3.72E-03	2.22E-04
Contribution to water eutrophication	kg PO_4^{3-} eq	2.89E-03	1.68E-03	1.13E-04	4.18E-06	1.03E-03	6.10E-05
Contribution to global warming	kg CO_2 eq	7.09E+00	3.63E+00	1.08E-01	4.13E-03	3.24E+00	1.13E-01
Contribution to ozone layer depletion	kg CFC11 eq	7.12E-07	4.63E-07	2.19E-10	0*	2.44E-07	5.00E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	1.38E-03	9.23E-04	3.51E-05	1.29E-06	4.00E-04	2.32E-05
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	5.70E-01	5.09E-01	0*	0*	6.11E-02	9.97E-05
Total Primary Energy	MJ	4.77E+02	6.11E+01	1.53E+00	5.39E-02	4.13E+02	1.08E+00



Optional indicators		thermal overload relays, TeSys Deca, 110-140A, lug clamps - LRD4369					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	8.93E+01	4.21E+01	1.52E+00	5.35E-02	4.47E+01	8.69E-01
Contribution to air pollution	m³	2.20E+03	1.95E+03	4.59E+00	0*	2.41E+02	7.81E+00
Contribution to water pollution	m³	9.76E+02	7.71E+02	1.77E+01	6.26E-01	1.77E+02	9.30E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.45E-02	4.45E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.31E+00	3.24E+00	2.03E-03	0*	6.31E-02	1.20E-03
Total use of non-renewable primary energy resources	MJ	4.74E+02	5.79E+01	1.52E+00	5.38E-02	4.13E+02	1.08E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.78E+00	1.71E+00	2.03E-03	0*	6.31E-02	1.20E-03
Use of renewable primary energy resources used as raw material	MJ	1.53E+00	1.53E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.68E+02	5.18E+01	1.52E+00	5.38E-02	4.13E+02	1.08E+00
Use of non renewable primary energy resources used as raw material	MJ	6.07E+00	6.07E+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	5.19E+01	4.61E+01	0*	0*	4.75E+00	1.09E+00
Non hazardous waste disposed	kg	2.61E+00	2.29E+00	3.83E-03	5.61E-04	3.12E-01	3.32E-03
Radioactive waste disposed	kg	3.93E-03	6.83E-04	2.73E-06	0*	3.24E-03	5.23E-06
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5.49E-01	8.05E-02	0*	7.59E-02	0*	3.92E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.43E-02	0*	0*	0*	0*	1.43E-02
Exported Energy	MJ	2.41E-04	2.27E-05	0*	2.19E-04	0*	0*

** represents less than 0.01% of the total life cycle of the reference flow*

Life cycle assessment performed with EIME version EIME v5.9.4, database version 2022-01 in compliance with ISO14044.

The manufacturing 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 number	ENVPEP110101EN_V2	*Drafting rules*	PCR-ed3-EN-2015 04 02
Date of issue	12/2022	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	*Information and reference documents*	www.pep-ecopassport.org

Independent verification of the declaration and data

Internal X External

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »

Schneider Electric Industries SAS

Country Customer Care Center
http://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

Published by Schneider Electric

ENVPEP110101EN_V2

12/2022