Product Environmental Profile

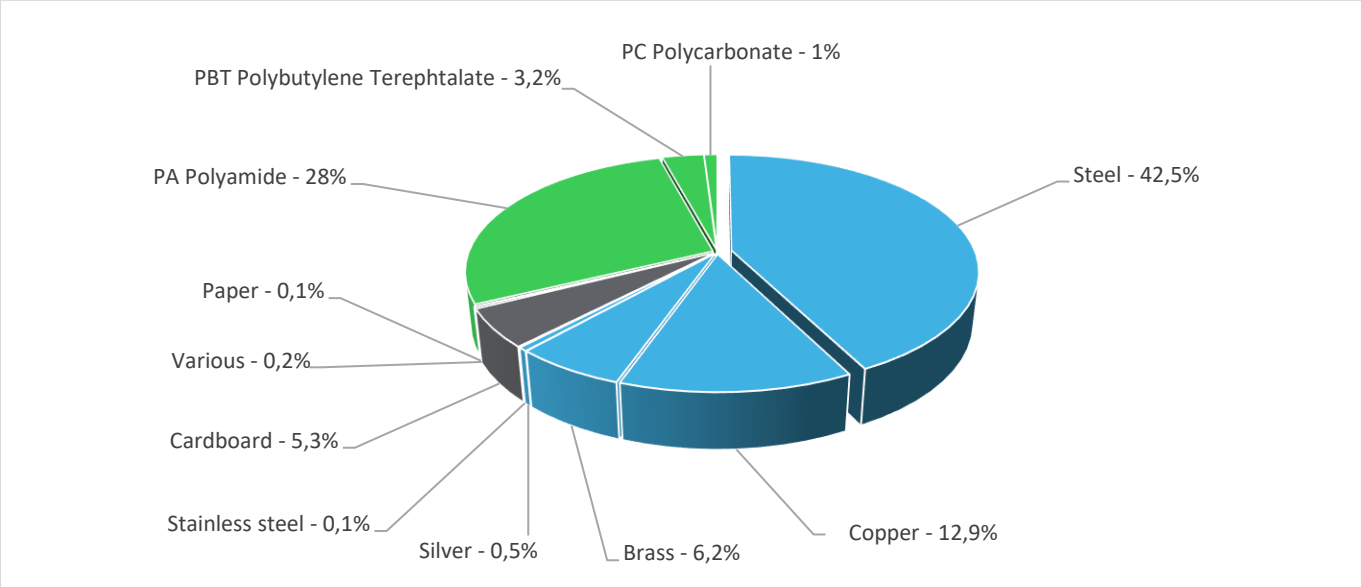
Acti9 iCT - Contactors - 1P/2P/3P/4P from 16A to 100A

General information

Representative product	Acti9 iCT - Contactor - 25A - 2NO - 230-240V - A9C20732
Description of the product	Acti9 iCT contactors are designed to remote control applications in alternating current: - lighting, heating, ventilation, roller blinds, sanitary hot water, - mechanical ventilation systems, etc, - load-shedding of non-priority circuits. Acti9 iCT contactors are available in two versions: - without manual operation - with manual operation.
Description of the range	This PEP covers others products than the reference product. It covers all contactors Acti9 iCT 1P/2P/3P/4P from 16A to 100A 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	Switch on and off during 20 years electrical power supply of a downstream installation with an electrical and/or mechanical control. The functional unit is characterized by a type 2P, a control circuit voltage up to 230V AC, a power circuit voltage of 230V AC and a maximum allowed intensity by the power circuit of 25A (Ip).

Constituent materials

Reference product mass	125 g	including the product, its packaging and additional elements and accessories



	Plastics	32,2%
	Metals	62,2%
	Others	5,6%

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, Diisobutyl phthalate - DIBP) as mentioned in the 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

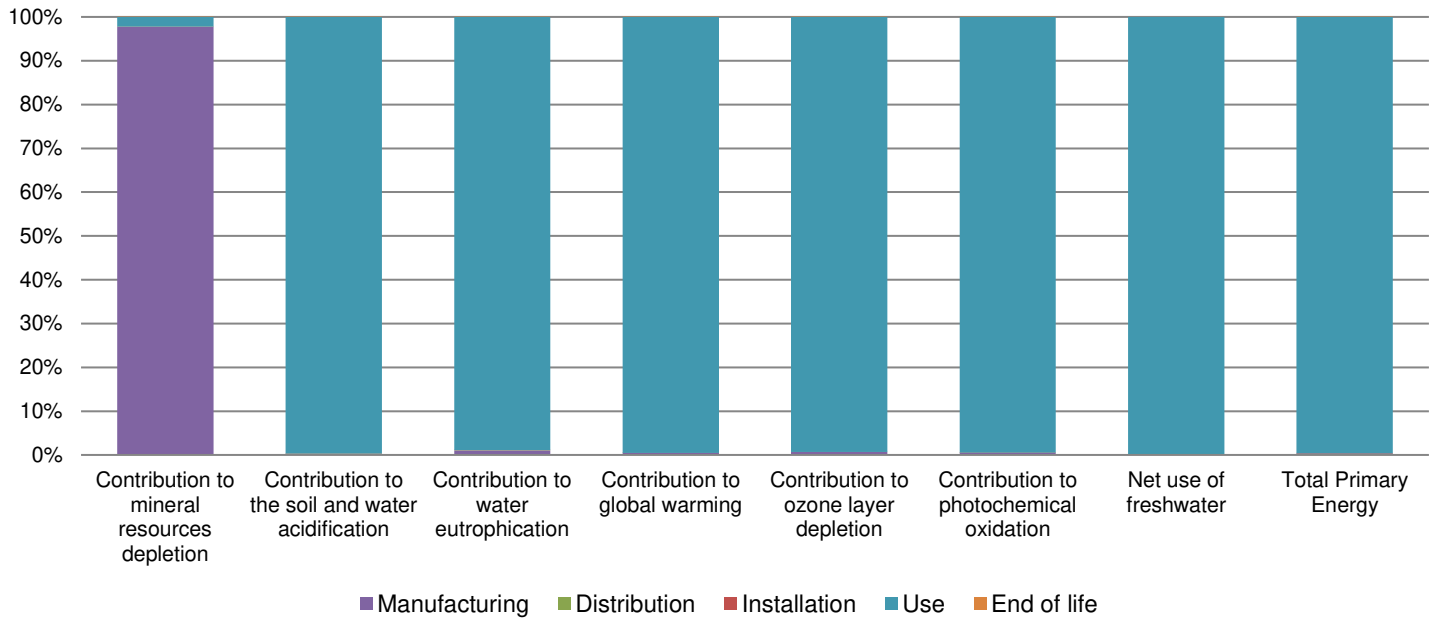
The Acti9 iCT - Contactor - 25A - 2NO - 230-240V A9C20732 presents the following relevent environmental aspects:	
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 6,5 g, consisting of Cardboard (99,3%), Paper (0,7%) Packaging recycled materials is 70% of total packaging mass. Product distribution optimised by setting up local distribution centres
Installation	Reference A9C20732 does not require any special installation operations. The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).
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: **59%** 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	Contactor, remote control switch, combinations, starters
Installation elements	No special components needed
Use scenario	Load factor : 50% of 25A (Ip) Use rate: 50% of the RLT (20 years)
Geographical representativeness	Europe
Technological representativeness	Acti9 iCT contactors are designed to remote control applications in alternating current: - lighting, heating, ventilation, roller blinds, sanitary hot water, - mechanical ventilation systems, etc, - load-shedding of non-priority circuits. Acti9 iCT contactors are available in two versions: - without manual operation - with manual operation.

Energy model used	Manufacturing	Installation	Use	End of life
	France - Electricity grid mix; AC; consumption mix, at consumer; 230V; FR	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	Acti9 iCT - Contactor - 25A - 2NO - 230-240V : A9C20732						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	5,74E-04	5,62E-04	0*	0*	1,27E-05	0*
Contribution to the soil and water acidification	kg SO_2 eq	6,11E-01	1,70E-03	7,36E-05	0*	6,09E-01	0*
Contribution to water eutrophication	kg PO_4^{3-} eq	3,72E-02	3,87E-04	1,70E-05	0*	3,68E-02	9,27E-06
Contribution to global warming	kg CO_2 eq	1,47E+02	6,79E-01	1,61E-02	0*	1,46E+02	1,67E-02
Contribution to ozone layer depletion	kg CFC11 eq	9,57E-06	6,39E-08	0*	0*	9,51E-06	0*
Contribution to photochemical oxidation	kg C_2H_4 eq	3,36E-02	1,80E-04	5,25E-06	0*	3,34E-02	3,60E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	5,29E+02	1,57E-01	0*	0*	5,29E+02	0*
Total Primary Energy	MJ	2,93E+03	1,20E+01	0*	0*	2,91E+03	0*



Optional indicators		Acti9 iCT - Contactor - 25A - 2NO - 230-240V : A9C20732					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,66E+03	7,95E+00	2,27E-01	0*	1,66E+03	0*
Contribution to air pollution	m³	6,52E+03	2,38E+02	6,86E-01	0*	6,28E+03	1,21E+00
Contribution to water pollution	m³	6,20E+03	1,79E+02	2,65E+00	0*	6,02E+03	1,42E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	9,69E-03	9,69E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3,71E+02	2,99E-01	0*	0*	3,71E+02	0*
Total use of non-renewable primary energy resources	MJ	2,56E+03	1,17E+01	0*	0*	2,54E+03	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3,71E+02	2,80E-01	0*	0*	3,71E+02	0*
Use of renewable primary energy resources used as raw material	MJ	1,93E-02	1,93E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,55E+03	1,07E+01	0*	0*	2,54E+03	0*
Use of non renewable primary energy resources used as raw material	MJ	9,95E-01	9,95E-01	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	8,86E+00	8,62E+00	0*	0*	7,61E-02	1,62E-01
Non hazardous waste disposed	kg	5,44E+02	4,15E-01	0*	0*	5,44E+02	0*
Radioactive waste disposed	kg	3,64E-01	2,24E-04	0*	0*	3,63E-01	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	8,60E-02	1,20E-02	0*	6,49E-03	0*	6,75E-02
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,96E-03	0*	0*	0*	0*	1,96E-03
Exported Energy	MJ	2,06E-05	1,94E-06	0*	1,87E-05	0*	0*

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

Life cycle assessment performed with EIME version 5.9.3, database version 2020-11 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).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply may be provided on request

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 :2016			
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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