

Product Environmental Profile

Acti9 - iTL - Impulse relay - 16A - 2NO

Representative of all Acti9 iTL - Impulse relay - 16A / 32A - 230-240V(AC) - 1P / 2P





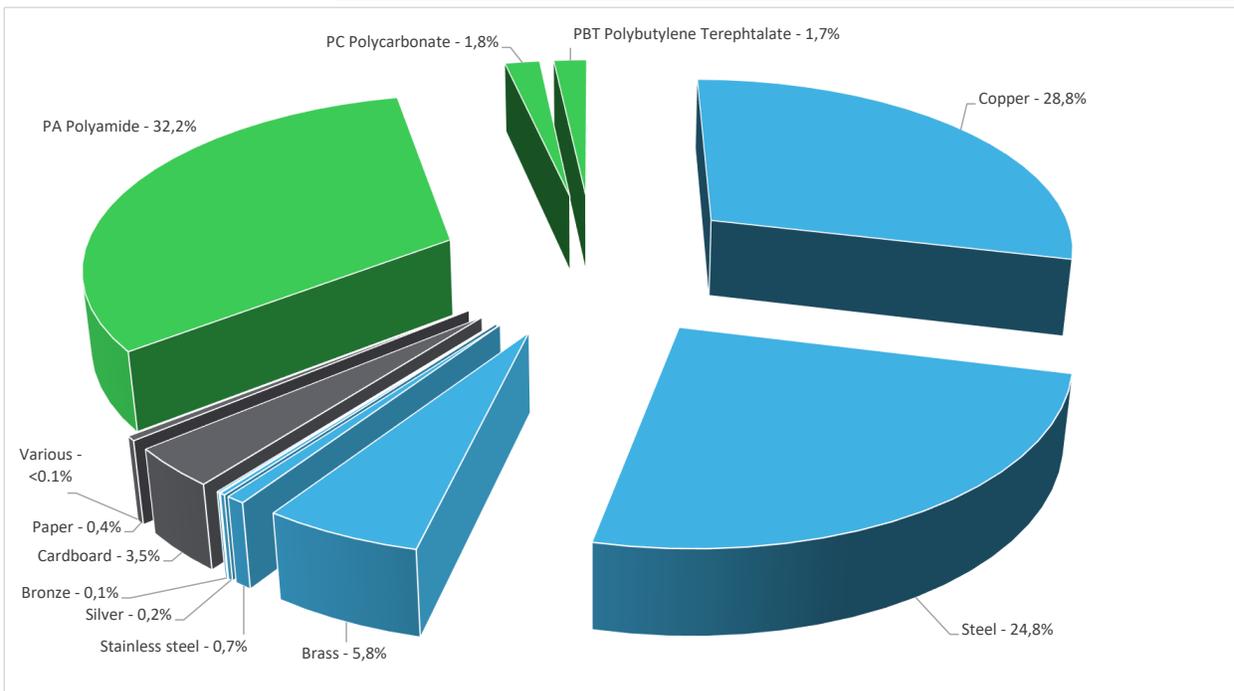
General information

Reference product	Acti9 - iTL - Impulse relay - 16A - 2NO - A9C30812
Description of the product	The product is an impulse relay for the control of electrical circuits and equipment. It reflects the impulses transmitted by accessories such as wall-mounted pushbuttons, thus allowing the control of the same system, via different points. It allows to connect the necessary wires to two contacts.
Description of the range	The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology. In addition of the reference product, this PEP covers all Acti9 iTL and Resi9 TL with 1P, 1P+N and 2P up to 32A.
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 an impulse control circuit voltage of 230-240V(AC) or 110 V CC. This product has a degree of protection IP20 (up to IP40 with cover).



Constituent materials

Reference product mass	125 g including the product, its packaging and additional elements and accessories
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Plastics	35,7%
Metals	60,4%
Others	3,9%



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<https://www.se.com/ww/en/work/support/green-premium/>

Additional environmental information			
End Of Life	Recyclability potential:	62%	Recyclability rate has been calculated based on REEECY [®] LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).

Environmental impacts			
Reference service life time	20 years		
Product category	Contactor, remote control switch, combinations, starters		
Installation elements	Reference A9C30812 does not require any special installation operations. The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).		
Use scenario	Load factor : 50% of 16A (Ip) Use rate: 50% of the 20 years (RLT)		
Geographical representativeness	Europe		
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCAEIME in this case) are Similar and representative of the actual type of technologies used to make the product		
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Production mix; Low voltage; BE	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27
			[C1 - C4]
			Electricity Mix; Production mix; Low voltage; UE-27

Detailed results, including all the optional indicators mentioned in PCR_{ed4}, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

Mandatory Indicators			Acti9 - iTL - Impulse relay - 16A - 2NO - A9C30812					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	6,56E+00	8,33E-01	1,63E-02	6,11E-03	5,39E+00	3,15E-01	-2,90E-01
Contribution to climate change-fossil	kg CO2 eq	6,53E+00	8,19E-01	1,63E-02	6,06E-03	5,38E+00	3,08E-01	-2,89E-01
Contribution to climate change-biogenic	kg CO2 eq	2,79E-02	1,33E-02	0*	4,53E-05	7,18E-03	7,32E-03	-8,59E-04
Contribution to climate change-land use and land use change	kg CO2 eq	1,22E-07	0*	0*	0*	0*	1,22E-07	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	1,13E-07	8,56E-08	2,50E-11	7,76E-11	2,30E-08	4,75E-09	-5,31E-08
Contribution to acidification	mol H+ eq	4,33E-02	1,11E-02	1,05E-04	7,54E-06	3,07E-02	1,38E-03	-1,86E-03
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	2,86E-04	1,11E-05	0*	9,51E-08	1,47E-05	2,60E-04	-5,34E-07
Contribution to eutrophication marine	kg N eq	4,57E-03	8,07E-04	4,94E-05	3,01E-06	3,49E-03	2,23E-04	-1,66E-04
Contribution to eutrophication, terrestrial	mol N eq	6,46E-02	8,88E-03	5,42E-04	2,26E-05	5,25E-02	2,71E-03	-1,92E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	1,52E-02	3,15E-03	1,37E-04	7,09E-06	1,12E-02	7,24E-04	-6,95E-04
Contribution to resource use, minerals and metals	kg Sb eq	4,99E-04	4,91E-04	0*	0*	3,90E-07	7,32E-06	-8,09E-05
Contribution to resource use, fossils	MJ	1,62E+02	1,60E+01	2,28E-01	0*	1,37E+02	9,01E+00	-6,04E+00
Contribution to water use	m3 eq	6,90E-01	2,54E-01	0*	4,90E-04	1,91E-01	2,44E-01	-1,29E-01

Additional indicators for the French regulation are available as well

Regarding transports on End-of-Life phase, the default 85% loading rate is taken into account (according to PCR_{ed4}) as the precise distance between products' end-of-life stakeholders is not well-known

Inventory flows Indicators			Acti9 - iTL - Impulse relay - 16A - 2NO - A9C30812					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,69E+01	3,57E-01	0*	0*	2,63E+01	1,76E-01	-5,14E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	8,66E-02	8,66E-02	0*	0*	0*	0*	0,00E+00
Contribution to total use of renewable primary energy resources	MJ	2,70E+01	4,44E-01	0*	0*	2,63E+01	1,76E-01	-5,14E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,61E+02	1,49E+01	2,28E-01	0*	1,37E+02	9,01E+00	-6,04E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	1,11E+00	1,11E+00	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1,62E+02	1,60E+01	2,28E-01	0*	1,37E+02	9,01E+00	-6,04E+00
Contribution to use of secondary material	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to net use of freshwater	m³	1,61E-02	5,92E-03	0*	1,14E-05	4,44E-03	5,68E-03	-3,01E-03
Contribution to hazardous waste disposed	kg	1,03E+01	1,00E+01	0*	0*	1,01E-01	1,22E-01	-6,35E+00
Contribution to non hazardous waste disposed	kg	1,30E+00	4,68E-01	5,73E-04	8,14E-03	7,75E-01	4,66E-02	-2,03E-01
Contribution to radioactive waste disposed	kg	3,71E-04	2,06E-04	4,08E-07	6,10E-07	1,62E-04	2,30E-06	-9,21E-05
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	7,44E-02	0*	0*	5,60E-04	0*	7,38E-02	0,00E+00
Contribution to materials for energy recovery	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to exported energy	MJ	2,47E-03	0*	0*	2,47E-03	0*	0*	0,00E+00
Contribution to biogenic carbon content of the product	kg de C	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0,00E+00	0*	0*	0*	0*	0*	0,00E+00

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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044 and according to the EF3.0 method calculation

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

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

<i>Registration number :</i>	SCHN-01113-V01.01-EN	<i>Drafting rules</i>	PEP-PCR-ed4-2021 09 06
<i>Verifier accreditation N°</i>	VH48	<i>Supplemented by</i>	PSR-0005-ed2-2016 03 29
<i>Date of issue</i>	12/2023	<i>Information and reference documents</i>	www.pep-ecopassport.org
		<i>Validity period</i>	5 years
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
Internal External X			
<i>The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDEMAIN)</i> <i>PEP are compliant with XP C08-100-1 :2016 or EN50693 :2019</i> <i>The elements of the present PEP cannot be compared with elements from another program.</i> <i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			

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SCHN-01113-V01.01-EN

Published by Schneider Electric

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12/2023