

Product Environmental Profile

CONTACTOR 3P+1NO 220V COIL





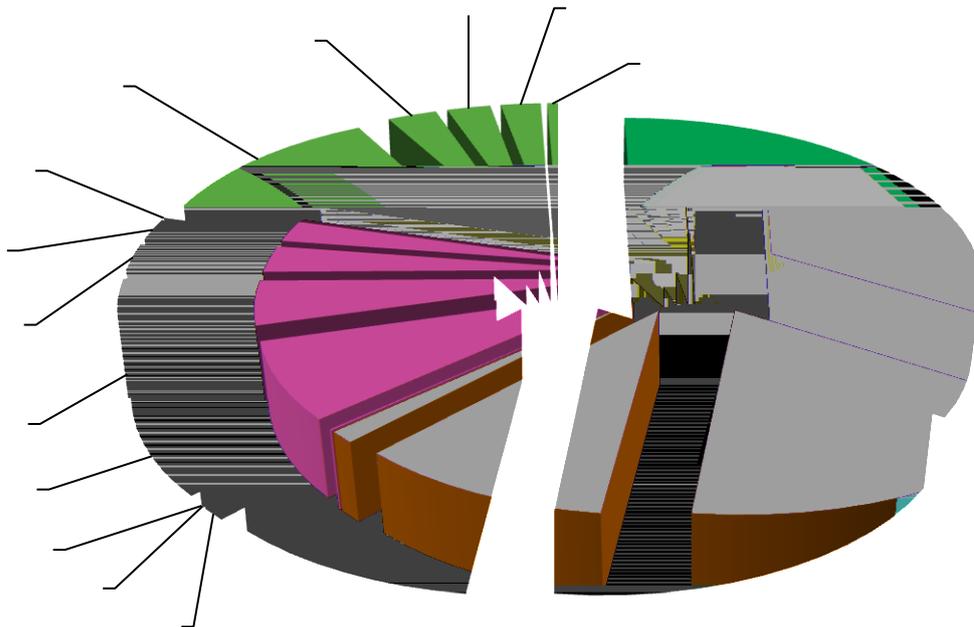
General information

Representative product	CONTACTOR 3P+1NO 220V COIL -LC1D0910M7N
Description of the product	The product is a CONTACTOR 3P+1NO 220V COIL included in passive products - non-continuous operation category. The main purpose of the product is to make and break currents up to 18A for motor loads and up to 25A for resistive loads up to 690V AC.
Functional unit	To make and break currents up to 18A for motor loads and up to 25A for resistive loads up to 690V AC for 20 years, in accordance with the GB14048.4 standards.



Constituent materials

Reference product mass 351 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

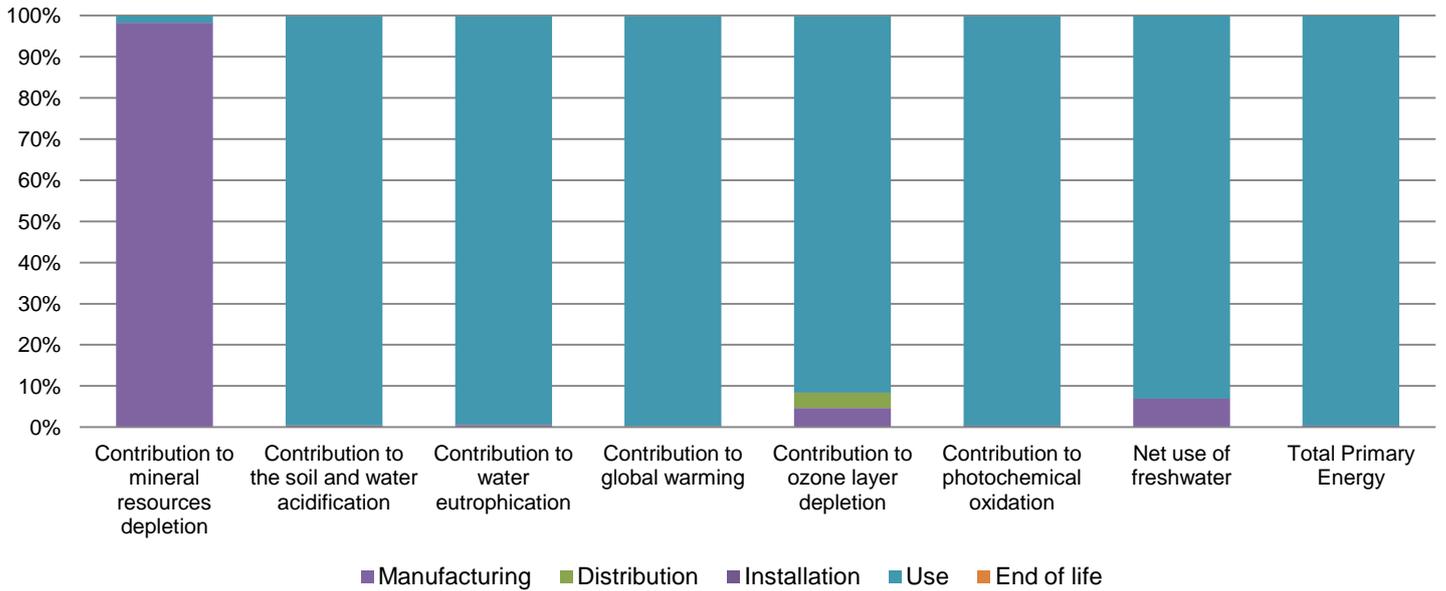
The CONTACTOR 3P+1NO 220V COIL presents the following relevant environmental aspects

Design	
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 15 g, consisting of cardboard (15g) Product distribution optimised by setting up local distribution centres
Installation	Ref LC1D0910M7N 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 treatment process. Recyclability potential: 63% (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	Passive products - non-continuous operation			
Installation elements	No special components needed			
Use scenario	Product dissipation is 8.054 W full load, loading rate is 30% and service uptime percentage is 30%			
Geographical representativeness	China			
Technological representativeness	The product is a CONTACTOR 3P+1NO 220V COIL included in passive products - non-continuous operation category. The main purpose of the product is to make and break currents up to 18A for motor loads and up to 25A for resistive loads up to 690V AC.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN

Compulsory indicators		CONTACTOR 3P+1NO 220V COIL - LC1D0910M7N					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.06E-04	1.04E-04	0*	0*	1.89E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	4.69E-01	1.87E-03	5.08E-04	0*	4.67E-01	1.00E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1.25E-01	6.63E-04	1.37E-04	0*	1.24E-01	2.72E-05
Contribution to global warming	kg CO ₂ eq	4.32E+02	1.19E+00	1.96E-01	0*	4.31E+02	4.89E-02
Contribution to ozone layer depletion	kg CFC11 eq	3.74E-06	1.75E-07	1.39E-07	0*	3.43E-06	2.22E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	5.54E-02	2.25E-04	1.15E-05	0*	5.51E-02	1.06E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	5.16E-01	3.56E-02	2.35E-04	0*	4.81E-01	0*
Total Primary Energy	MJ	7.30E+03	2.93E+01	2.48E+00	0*	7.27E+03	0*



Optional indicators		CONTACTOR 3P+1NO 220V COIL - LC1D0910M7N					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	6.75E+03	1.75E+01	2.47E+00	0*	6.73E+03	0*
Contribution to air pollution	m ³	4.51E+04	4.24E+02	6.85E+00	0*	4.47E+04	0*
Contribution to water pollution	m ³	2.15E+04	4.63E+01	2.89E+01	0*	2.14E+04	4.17E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.48E-02	2.48E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.62E+02	5.88E-01	0*	0*	3.61E+02	0*
Total use of non-renewable primary energy resources	MJ	6.94E+03	2.87E+01	2.48E+00	0*	6.91E+03	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.62E+02	2.79E-01	0*	0*	3.61E+02	0*
Use of renewable primary energy resources used as raw material	MJ	3.09E-01	3.09E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.94E+03	2.60E+01	2.48E+00	0*	6.91E+03	0*
Use of non renewable primary energy resources used as raw material	MJ	2.69E+00	2.69E+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	2.22E+01	7.84E+00	0*	3.01E-02	1.39E+01	4.64E-01
Non hazardous waste disposed	kg	7.82E+01	7.49E-02	0*	0*	7.81E+01	0*
Radioactive waste disposed	kg	2.68E-03	6.55E-05	3.96E-05	0*	2.57E-03	2.37E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.41E-01	3.06E-02	0*	0*	0*	2.10E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	6.56E-03	8.33E-04	0*	0*	0*	5.73E-03
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).

