# **Product Environmental Profile**

#### POWER CONTACTOR-LC1-F150 150A 440V 3P

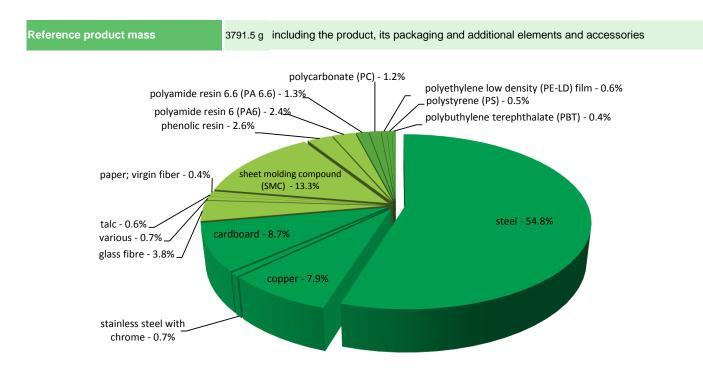




#### General information

Representative product	POWER CONTACTOR-LC1-F150 150A 440V 3P -LC1F150M5			
Description of the product	The product POWER CONTACTOR-LC1-F150 150A 440V 3P makes and breaks currents for motor loads and resistive loads at voltages up to 1000V AC.			
Functional unit	To make and break currents up to 150A for motor loads for 20 years. Contactor type 3Poles and 230V 50Hz coil for switching power under 1000V and 150A.			

#### Constituent materials



#### 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**

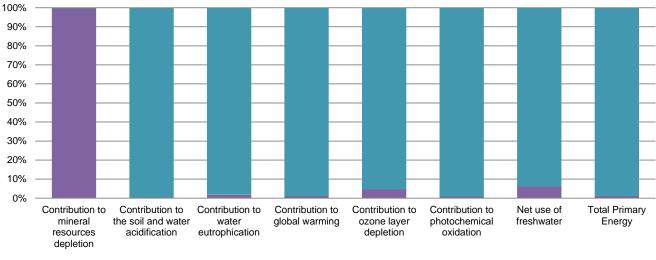
The	OWER CONTACTOR-LC1-F150 150A 440V 3P presents the following relevent environmental aspects						
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified						
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 384.1 g, consisting of cardboard (326g), paper (15.1g), Polyethylene film (23g) and Polystyrene (20g)						
	Product distribution optimised by setting up local distribution centres						
Installation	Ref LC1F150M5 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 Plastic parts with brominated FR (104.1g) 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						
	Recyclability potential: 69%   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).						

## **P** 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 47.16 W full load, loading rate is 30% and service uptime percentage is 30%					
Geographical representativeness	Europe					
Technological representativeness	The product POWER CONTACTOR-LC1-F150 150A 440V 3P makes and breaks currents for motor loads and resistive loads at voltages up to 1000V AC.					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: France	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	POWER CONTACTOR-LC1-F150 150A 440V 3P - LC1F150M5						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.79E-02	1.79E-02	0*	0*	6.67E-05	0*
Contribution to the soil and water acidification	$kg SO_2 eq$	1.11E+01	4.96E-02	2.23E-03	0*	1.11E+01	0*
Contribution to water eutrophication	kg PO4 <sup>3-</sup> eq	4.23E-01	7.76E-03	5.14E-04	0*	4.15E-01	2.64E-04
Contribution to global warming	kg CO <sub>2</sub> eq	1.48E+03	1.77E+01	4.89E-01	0*	1.46E+03	4.54E-01
Contribution to ozone layer depletion	kg CFC11 eq	3.73E-04	1.78E-05	0*	0*	3.56E-04	0*
Contribution to photochemical oxidation	kg $C_2H_4$ eq	5.28E-01	4.82E-03	1.59E-04	0*	5.23E-01	1.06E-04
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	4.07E+00	2.52E-01	0*	0*	3.82E+00	4.35E-04
Total Primary Energy	MJ	3.00E+04	3.68E+02	6.92E+00	0*	2.96E+04	5.49E+00

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■ Manufacturing ■ Distribution ■ Installation ■ Use ■ End of life

Optional indicators	POWER CONTACTOR-LC1-F150 150A 440V 3P - LC1F150M5						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.53E+04	2.29E+02	6.87E+00	0*	1.51E+04	4.51E+00
Contribution to air pollution	m³	6.89E+04	6.11E+03	2.08E+01	0*	6.28E+04	3.55E+01
Contribution to water pollution	m³	6.26E+04	1.04E+03	8.04E+01	0*	6.14E+04	4.09E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	5.75E-02	5.75E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.13E+03	1.20E+01	0*	0*	2.12E+03	0*
Total use of non-renewable primary energy resources	MJ	2.79E+04	3.56E+02	6.91E+00	0*	2.75E+04	5.48E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.13E+03	5.03E+00	0*	0*	2.12E+03	0*
Use of renewable primary energy resources used as raw material	MJ	6.98E+00	6.98E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.79E+04	3.35E+02	6.91E+00	0*	2.75E+04	5.48E+00
Use of non renewable primary energy resources used as raw material	MJ	2.08E+01	2.08E+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	2.99E+02	2.94E+02	0*	7.70E-01	0*	4.44E+00
Non hazardous waste disposed	kg	5.48E+03	8.41E+00	0*	0*	5.47E+03	0*
Radioactive waste disposed	kg	4.47E+00	3.87E-03	0*	0*	4.46E+00	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.70E+00	3.42E-01	0*	0*	0*	2.35E+00
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	5.39E-02	6.84E-03	0*	2.15E-03	0*	4.49E-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).

#### ENVPEP111201EN\_V1 - Product Environmental Profile - POWER CONTACTOR-LC1-F150 150A 440V 3P

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 N°		ENVPEP111201EN_V1	Drafting rules	PCR-ed3-EN-2015 04 02		
Date of issue		03-2016	Supplemented by	PSR-0005-ed1-EN -2012 12 11		
Validity period		5 years	Information and reference	www.pep-ecopassport.org		
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010						
Internal	nternal 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) »						

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ENVPEP111201EN\_V1

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03-2016