



### LEGRAND'S ENVIRONMENTAL COMMITMENTS

- Incorporate environmental management into our industrial sites  
Of all Legrand sites worldwide, over 85% are ISO 14001-certified (sites belonging to the Group for more than five years).
- Offer our customers environmentally friendly solutions  
Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.
- Involve the environment in product design and provide informations in compliance with ISO 14025  
Reduce the environmental impact of products over their whole life cycle.  
Provide our customers with all relevant information (composition, consumption, end of life, etc.).



### REFERENCE PRODUCT

Function	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 2 NO, a control circuit voltage 230V, a power circuit voltage 250V and a maximum allowed intensity by the power circuit 25A.
Reference Product	 <p style="text-align: center;">Cat.No 412501 CX3-CT HC25A 2NO 230V SIL</p>

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.



### PRODUCTS CONCERNED

The environmental data is representative of the following products:

Catalogue Numbers
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### ■ CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU.

Total weight of Reference Product	116 g (with unit packaging)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PA	35.4%	Steel	41.3%		
PBT	3.1%	Copper alloys	7.5%		
PC	1.2%	Other metal	0.4%		
PP	0.5%	Silver alloys	0.2%		
PE	<0.1%				
		Packaging as % of weight			
				Wood	7.2%
				Paper	3.2%
<b>Total plastics</b>	<b>40.2%</b>	<b>Total metals</b>	<b>49.4%</b>	<b>Total other and packaging</b>	<b>10.4%</b>

Estimated recycled material content: 7% by mass.



### ■ MANUFACTURE

This Reference Product comes from sites that have received ISO 14001 certification.



### ■ DISTRIBUTION

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 780 km by road from our warehouse to the local point of distribution into the market in Europe.

Packaging is compliant with european directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 97 % (in % of the mass of the packaging).



### ■ INSTALLATION

For the installation of the product, only standard tools are needed.



### ■ USE

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.

# Product Environmental Profile

## CX3 Contactor 2-pole\_1 module



### END OF LIFE

The product end-of-life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse. This product falls within the scope of the WEEE directive (2012/19/ EU). Therefore it must be processed through local WEEE recycling/recovery channels.

- Extended producer responsibility

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

- Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 97%. This value is based on data collected from a technological channel using industrial procedures. It does not prevalidate the effective use of this channel for end-of-life electrical and electronic products.

Separated into:

- plastic materials (excluding packaging) : 38 %
- metal materials (excluding packaging) : 49%
- other materials (excluding packaging) : 0 %
- packaging (all types of materials) : 10 %



### ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end-of-life. It is representative from products marketed and used in Europe, in compliance with the local current standards

For each phase, the following modelling elements were taken in account:

Manufacture	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
Distribution	Transport between the last Group distribution centre and an average delivery point in the sales area.
Installation	The end of life of the packaging.
Use	<ul style="list-style-type: none"> <li>• Product category: passive product</li> <li>• Use scenario: continuous operation for 20 years at 50% of rated load during 50% of the time. This modelling duration does not constitute a minimum durability requirement</li> <li>• Energy model: Electricity Mix; Europe 27, year 2008</li> </ul>
End of life	The default end of life scenario maximizing the environmental impacts.
Software and database used	EIME & database CODDE-2018-11



### SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
	Value	Unit	Value	%	Value	%	Value	%	Value	%	Value	%
Global warming	1.20E+02	kg~CO <sub>2</sub> eq.	5.66E-01	< 1%	4.50E-03	< 1%	6.43E-04	< 1%	1.20E+02	100%	9.28E-03	< 1%
Ozone depletion	7.86E-06	kg~CFC-11 eq.	7.04E-08	< 1%	9.12E-12	< 1%	2.40E-12	< 1%	7.79E-06	99%	1.67E-10	< 1%
Acidification of soils and water	5.00E-01	kgSO <sub>2</sub> eq.	1.10E-03	< 1%	2.02E-05	< 1%	2.98E-06	< 1%	4.99E-01	100%	3.69E-05	< 1%
Water eutrophication	3.06E-02	kg~PO <sub>4</sub> <sup>3-</sup> eq.	3.77E-04	1%	4.65E-06	< 1%	1.64E-06	< 1%	3.01E-02	99%	5.04E-05	< 1%
Photochemical ozone formation	2.75E-02	kg~C <sub>2</sub> H <sub>4</sub> eq.	1.06E-04	< 1%	1.44E-06	< 1%	2.11E-07	< 1%	2.74E-02	100%	2.83E-06	< 1%
Depletion of abiotic resources - elements	2.31E-04	kgSb eq.	2.20E-04	95%	1.80E-10	< 1%	2.65E-11	< 1%	1.04E-05	5%	5.15E-10	< 1%
Total use of primary energy	2.40E+03	MJ	1.06E+01	< 1%	6.36E-02	< 1%	9.00E-03	< 1%	2.39E+03	100%	1.07E-01	< 1%
Net use of fresh water	4.34E+02	m <sup>3</sup>	2.77E-02	< 1%	4.03E-07	< 1%	1.08E-07	< 1%	4.34E+02	100%	5.87E-06	< 1%
Depletion of abiotic resources - fossil fuels	1.36E+03	MJ	3.72E+00	< 1%	6.32E-02	< 1%	8.88E-03	< 1%	1.36E+03	100%	9.95E-02	< 1%
Water pollution	5.10E+03	m <sup>3</sup>	1.63E+02	3%	7.40E-01	< 1%	1.04E-01	< 1%	4.94E+03	97%	1.16E+00	< 1%
Air pollution	5.25E+03	m <sup>3</sup>	9.95E+01	2%	1.85E-01	< 1%	4.59E-02	< 1%	5.15E+03	98%	8.72E-01	< 1%

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website.

For products covered by the PEP other than the Reference product, the environmental impacts of each phase of the lifecycle are calculated with

- For the manufacturing, distribution, installation and end of life phases, take the same impact values for all phases.

- For the use phase, and for the contactors 25A, take the same value of impacts and for the contactors 16A, the impacts are multiplied by a coefficient of 0.64

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Verifier accreditation N°: VH33	Information and reference documents : www.pep-ecopassport.org
Date of issue: 07-2019	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025:2010 Internal <input type="checkbox"/> External <input checked="" type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINEN)	
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»	
Environmental data in alignment with EN 15804 : 2012 + A1 : 2013	

