

128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 5 55 06 87 87 Fax. + 33 (0) 5 55 06 88 88



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Product Environmental Profile

RCBO 4P DX³ 4 mod





■ 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	Protect during 20 years the installation against overloads and short-circuits and people and premises at risk of fire or explosion against insulation defects in circuit with assigned voltage 400V and rated current 20A. This protection is ensured in accordance with the following parameters: Number of poles 4; Rated breaking capacity 6kA; Tripping curve C; Sensitivity 30mA; Type of differential protection AC				
	P-I-I-I				

Reference Product



Cat.No 411187

RCBO DX3 C20 30MA AC 4 mod

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 :

411185, 411186, 411187, 411188, 411189, 411204, 411205, 411206, 411207, 411208, 411223, 411224, 411225, 411226, 411227, 411228, 411229, 411230, 411231, 411232, 411233, 411234, 411235, 411236, 411237, 411238, 411239, 411240, 411241, 411242, 411244, 411245, 411246, 411247, 411249, 411250, 411251, 411252, 411350, 411356, 411359, 411360, 411361, 411362, 411357, 411380, 411381, 411193, 411194, 411195, 411212, 411213, 411214.



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■ CONSTITUENT MATERIALS I

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	550 g (wit	th unit packaging)					
Plastics as % of weight		Metals as % of weight		Other as % of weight			
PA	21.5%	Steel	28.8%	Various electronic components	0.9%		
PBT	11.9%	Copper alloys	18.0%				
Other plastic	1.0%	Other metal	7.2%				
PC	0.7%	Zamak	0.3%				
PVC	0.4%	Al	0.2%				
PS	<0.1%	Sylver alloys	<0.1%				
Various plastic	<0.1%	Various metal	<0.1%				
		Packaging as % of weight					
				Paper	4.7%		
				Wood	4.4%		
Total plastics	35.5%	Total metals	54.5%	Total other and packaging	10.0%		

Estimated recycled material content: 19% 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 98 % (in % of the mass of the packaging).



■ INSTALLATION ■

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



USE CONTRACTOR

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



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■ END OF LIFE I

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 responsability:

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 96%. 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 eletronic products.

Separated into:

- plastic materials (excluding packaging)
- metal materials (excluding packaging)
- other materials (excluding packaging)
- packaging (all types of materials)
: 9 %



■ ENVIRONMENTAL IMPACTS I

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	 Product category: PSR-0005-ed2-2016 03 29 - § 3.3 Differential circuit-breakers Use scenario: non-continuous operation for 20 years at 50% of rated load, during 30% of the time. This modelling duration does not constitute a minimum durability requirement. Energy model: Electricity Mix; Europe 27 year 2008 				
End of life	The default end of life scenario maximizing the environmental impacts.				
Software and database used	EIME & database «CODDE-2016-11»				



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■ SELECTION OF ENVIRONMENTAL IMPACTS

	Total for I	Life cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	6,75E+01	kgCO2 eq.	2,49E+00	4%	1,23E-02	< 1%	2,77E-03	< 1%	6,49E+01	96%	4,34E-02	< 1%
Ozone depletion	1,60E-05	kgCFC-11 eq.	2,27E-07	1%	2,49E-11	< 1%	1,32E-11	< 1%	1,58E-05	99%	7,42E-10	< 1%
Acidification of soils and water	4,97E-01	kgSO2 eq.	5,64E-03	1%	5,53E-05	< 1%	1,31E-05	< 1%	4,91E-01	99%	1,73E-04	< 1%
Water eutrophication	2,00E-02	kg(P04)3- eq.	1,31E-03	7 %	1,27E-05	< 1%	9,58E-06	< 1%	1,84E-02	92%	2,41E-04	1%
Photochemical ozone formation	2,39E-02	kgC2H4 eq.	7,05E-04	3%	3,93E-06	< 1%	9,27E-07	< 1%	2,32E-02	97%	1,33E-05	< 1%
Depletion of abiotic resources - elements	6,50E-04	kgSb eq.	6,47E-04	100%	4,93E-10	< 1%	1,16E-10	< 1%	2,96E-06	< 1%	2,36E-09	< 1%
Total use of primary energy	1,37E+03	МЛ	5,17E+01	4%	1,74E-01	< 1%	3,86E-02	< 1%	1,32E+03	96%	5,04E-01	< 1%
Net use of fresh water	2,28E-01	m3	5,84E-02	26%	1,10E-06	< 1%	6,00E-07	< 1%	1,69E-01	74%	2,62E-05	< 1%
Depletion of abiotic resources - fossil fuels	6,97E+02	МЛ	2,72E+01	4%	1,73E-01	< 1%	3,87E-02	< 1%	6,69E+02	96%	5,97E-01	< 1%
Water pollution	3,27E+03	m3	5,36E+02	16%	2,03E+00	< 1%	4,41E-01	< 1%	2,73E+03	83%	5,47E+00	< 1%
Air pollution	3,69E+03	m3	8,98E+02	24%	5,05E-01	< 1%	2,48E-01	< 1%	2,79E+03	76%	3,96E+00	< 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.

To determine the environmental impact of a product covered by the PEP other than the cat.number, the following rules apply:

Manufacturing, Distribution, Installation and End of life phases, take the same value

Use phase impacts are proportional to the power dissipated.

Registration N°: LGRP-00796-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-FR-2016 03 29»
Verifier accreditation N°: VH23	Information and reference documents : www.pep-ecopassport.org
Date of issue: 08-2021	Validity period: 5 years
Independent verification of the declaration and data, in o	compliance with ISO 14025:2010
The PCR review was conducted by a panel of experts cha	aired by Philippe Usset ISULINIENI
The elements of the present PEP cannot be compared w	rith elements from another program
Document in compliance with ISO 14025 : 2010: «Enviror declarations»	mental labels and declarations. Type III environmental
Environmental data in alignment with EN 15804 : 2012 +	