

128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 555068787 Fax. + 33 (0) 555068888



Product Environmental Profile

Thermal-magnetic MCCB DRX 250 HP Adjustable





■ 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 in circuit with assigned voltage 415 and rated current 250 A. This protection is ensured in accordance with the following parameters: - Number of poles: 3; - Rated breaking capacity: 25 kA. The following parameters are given according to the technical requirements indicated by EN 60947-2.						
Reference Product	DIVERSION IN THE STATE OF THE S						
	LG-669012						

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.

Thermal-magnetic MCCB DRX 250 HP Adjustable - 3P - In 250 A - Icu 25 kA



■ PRODUCTS CONCERNED

The environmental data is representative of the following products:

LG-669012

- LG-669000 001 002 003 004 005 006 007 008 009 010 011
- LG-669020 021 022 023 024 025 026 027 028 029 030 031 032
- LG-669040 041 042 043 044 045 046 047 048 049 050 051 052
- LG-669060 061 062 063 064 065 066 067 068 069 070 071 072
- LG-669080 081 082 083 084 085 086 087 088 089 090 091 092
- LG-669100 101 102 103 104 105 106 107 108 109 110 111 112
- LG-669410 411 412 413 414 415 416 417 418 419 420 421 422 423 424
- LG-669425 426 427 428 429 430 431 432 433 434 435 436 437 438 439
- LG-669440 441 442 443 444 445 446 447 448 449 450 451 452 453 454
 LG-669455 456 457 458 459 460 461 462 463 464 465 466 467 468 469
- LG-667410 411 412 413 414 415 416 417 418 419 420 421 422 423 424
- LG-667425 426 427 428 429 430 431 432 433 434 435 436 437 438 439



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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 and its delegated directive 2015/863/EU.

Total weight of	
Reference Product	2140 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight		
Thermoset	30,1 %	Steel	25,1 %			
Polyamide	10,3 %	Copper alloys	13,8 %			
Polycarbonate	Polycarbonate 3,2 %		0,2 %			
PVC	1,4 %	Other metals	0,7 %			
PET	< 0,1 %					
Other plastics	0,1 %					
		Packaging				
Polyethylene	0,3 %			Paper / cardboard	8,6 %	
				Wood	6,2 %	
Total plastics	45,4 %	Total metals	39,8 %	Total other	14,8 %	

Estimated recycled material content: 20 % by mass.



MANUFACTURE

This Reference Product comes from a site that has received ISO14001 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 3500 km by road from our warehouse to the local point of distribution in Asia. Packaging is compliant with applicable regulations concerning packaging and packaging waste. At their end of life, its recyclability rate is 96 % (in % of packaging weight).



INSTALLATION

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



USE I

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.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 69 %. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.

Separated into:

plastic materials (excluding packaging)
metal materials (excluding packaging)
packaging (all types of materials)
15 %



■ 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 Asia, 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 - § 3.1 Circuit-breakers complemented by the technical requirements indicated by EN 60947-2 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 durabilty requirement. Energy model: Electricity Mix, China - 2009.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME V5 and its database «CODDE-2018-11»



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■ SELECTION OF ENVIRONMENTAL IMPACTS I

	Total for l	ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	8.59E+02	kgCO ₂ eq.	8.31E+00	< 1%	3.73E-01	< 1%	1.89E-02	< 1%	8.50E+02	99%	9.34E-02	< 1%
Ozone depletion	7.78E-06	kgCFC-11 eq.	1.00E-06	13%	7.55E-10	< 1%	1.11E-10	< 1%	6.77E-06	87%	1.34E-09	< 1%
Acidification of soils and water	9.41E-01	kgSO ₂ eq.	1.73E-02	2%	1.68E-03	< 1%	8.89E-05	< 1%	9.22E-01	98%	3.79E-04	< 1%
Water eutrophication	2.54E-01	kg(PO ₄)³- eq.	9.51E-03	4%	3.85E-04	< 1%	7.07E-05	< 1%	2.43E-01	96%	5.56E-04	< 1%
Photochemical ozone formation	1.11E-01	kgC ₂ H ₄ eq.	2.05E-03	2%	1.19E-04	< 1%	6.31E-06	< 1%	1.09E-01	98%	2.89E-05	< 1%
Depletion of abiotic resources - elements	3.44E-03	kgSb eq.	3.44E-03	100%	1.49E-08	< 1%	8.12E-10	< 1%	3.73E-06	< 1%	4.79E-09	< 1%
Total use of primary energy	1.41E+04	МЛ	1.83E+02	1%	5.27E+00	< 1%	2.60E-01	< 1%	1.39E+04	99%	1.11E+00	< 1%
Net use of fresh water	1.56E+00	m³	6.08E-01	39%	3.34E-05	< 1%	4.83E-06	< 1%	9.49E-01	61%	4.81E-05	< 1%
Depletion of abiotic resources - fossil fuels	1.29E+04	МЛ	7.70E+01	< 1%	5.24E+00	< 1%	2.54E-01	< 1%	1.29E+04	99%	1.05E+00	< 1%
Water pollution	4.34E+04	m³	1.05E+03	2%	6.13E+01	< 1%	2.95E+00	< 1%	4.23E+04	97%	1.22E+01	< 1%
Air pollution	9.13E+04	m³	3.02E+03	3%	1.53E+01	< 1%	1.81E+00	< 1%	8.82E+04	97%	7.69E+00	< 1%

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

For products covered by the PEP other than the Reference Product, the environmental impacts of the Manufacturing, Distribution, Installation and End of Life are proportional to the number of poles, while the impacts of the Use phase are proportional to the number of poles and to the dissipated power.

Registration N°: LGRP-01194-V01.01-EN Drafting rules: PEP-PCR-ed3-EN-Supplemented by PSR-0005-ed2-		
Verifier accreditation N°: VH02	Information and reference documents : wv	ww.pep-ecopassport.org
Date of issue: 07-2020		
Independent verification of the declaration and data, in conternal ☐ External ☐	ompliance with ISO 14025:2010	
The PCR review was conducted by a panel of experts cha	PEP	
PEP are compliant with XP C08-100-1 : 2014 The elements of the present PEP cannot be compared w	PASS	
Document in compliance with ISO 14025 : 2010: «Environ declarations»	PORT _®	
Environmental data in alignment with EN 15804 : 2012 +	A1 : 2013	