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Product Environmental Profile

MCCB thermal magnetic with e.l.c.bs DPX³ 250HP





■ 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.).



Function

Reference Product

■ REFERENCE PRODUCT ■

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 of 500 V and rated current of 250 A. This protection is ensured in accordance with the following parameters:

- Number of poles: 4P

- Rated breaking capacity: 36 kA
- Sensitivity: 30mA, 300mA, 1000mA, 3000mA
- Type of differential protection: A



LG-423057

MCCB DPX3 250HP - thermal magnetic with e.l.c.bs - 4P - Icu 36 kA - In 250 A

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:

LG-423057

LG-423045, LG-423046, LG-423047, LG-423048, LG-423049, LG-423050, LG-423051, LG-423052, LG-423053, LG-423054, LG-423055, LG-423056;

LG-423105, LG-423106, LG-423107, LG-423108, LG-423109, LG-423110, LG-423111, LG-423112, LG-423113, LG-423114, LG-423115, LG-423116, LG-423117.



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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 and its delegated directive 2015/863/EU.

Total weight of	
Reference Product	3394 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight		
Thermoset	20,1 %	Copper alloys	24,3 %	Cables / Electric wires	1,4 %	
Polyamide	12,8 %	Steel 23,0 % Electronic cards		Electronic cards	0,9 %	
Polycarbonate	1,8 %	Other metals	0,4 %			
Other plastics	0,7 %	Silver alloys	0,1 %			
PVC	0,3 %					
SBS rubber	0,2 %					
	'	Packagi	ng			
Polyethylene	0,2 %			Wood	9,3 %	
				Paper / Cardboard	4,5 %	
Total plastics	36,1 %	Total metals	47,8 %	Total other	16,1 %	

Estimated recycled material content: 19 % by mass.



■ MANUFACTURE ■

This Reference Product comes from a site that has received ISO14001 certification.



DISTRIBUTION I

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 European market. Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 95 % (in % of packaging weight).



■ INSTALLATION I

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.

• Elements to process specifically:

In accordance with the requirements of this Directive, the following components must be removed and sent to specific channels for processing which comply with the WEEE Directive 2012/19/EU:

- electronic cards more than 10 cm²: 30 g

• 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 76 %. 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)
other materials (excluding packaging)
1 %
packaging (all types of materials)
13 %



■ 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	 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 model duration does not constitute a minimum durabilty requirement. Energy model: Electricity Mix, Europe 27 - 2008. 			
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

	Total for I	_ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	5.64E+02	kgCO ₂ eq.	1.48E+01	3%	1.32E-01	< 1%	2.57E-02	< 1%	5.49E+02	97%	1.77E-01	< 1%
Ozone depletion	8.30E-05	kgCFC-11 eq.	4.72E-05	57 %	2.67E-10	< 1%	1.15E-10	< 1%	3.57E-05	43%	2.55E-09	< 1%
Acidification of soils and water	2.32E+00	kgSO ₂ eq.	2.49E-02	1%	5.92E-04	< 1%	1.19E-04	< 1%	2.29E+00	99%	7.20E-04	< 1%
Water eutrophication	1.48E-01	kg(PO ₄)³- eq.	8.69E-03	6%	1.36E-04	< 1%	6.91E-05	< 1%	1.38E-01	93%	1.05E-03	< 1%
Photochemical ozone formation	1.29E-01	kgC ₂ H ₄ eq.	3.10E-03	2%	4.21E-05	< 1%	8.44E-06	< 1%	1.26E-01	98%	5.48E-05	< 1%
Depletion of abiotic resources - elements	5.60E-03	kgSb eq.	5.55E-03	99%	5.27E-09	< 1%	1.08E-09	< 1%	4.77E-05	< 1%	9.10E-09	< 1%
Total use of primary energy	1.12E+04	МЛ	2.75E+02	2%	1.86E+00	< 1%	3.57E-01	< 1%	1.10E+04	98%	2.10E+00	< 1%
Net use of fresh water	1.99E+03	m³	7.01E-01	< 1%	1.18E-05	< 1%	4.99E-06	< 1%	1.99E+03	100%	9.14E-05	< 1%
Depletion of abiotic resources - fossil fuels	6.34E+03	МЛ	1.09E+02	2%	1.85E+00	< 1%	3.51E-01	< 1%	6.23E+03	98%	1.99E+00	< 1%
Water pollution	2.47E+04	m³	1.97E+03	8%	2.17E+01	< 1%	4.10E+00	< 1%	2.26E+04	92%	2.31E+01	< 1%
Air pollution	3.02E+04	m³	6.56E+03	22%	5.40E+00	< 1%	1.92E+00	< 1%	2.36E+04	78%	1.46E+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 the Manufacturing, Distribution, Installation and End of Life take the same values of those of the Reference Product, while the impacts of the Use phase are proportional to the dissipated power.

Registration N°: LGRP-01410-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0005-ed2-2016 03 29
Verifier accreditation N°: VH23	Information and reference documents : www.pep-ecopassport.
Date of issue: 11-2021	Validity period: 5 years
Independent verification of the declaration and data, in continuous Internal ☐ External ☐	impliance with ISO 14025:2010
The PCR review was conducted by a panel of experts chair	red by Philippe Osset (SOLINNEN)
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared wire	th elements from another program
Document in compliance with ISO 14025 : 2010: «Environr declarations»	
Environmental data in alignment with EN 15804 : 2012 + A	A1 : 2013