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Product Environmental Profile

MCCB DPX³ 630 Electronic release





■ LEGRAND'S ENVIRONMENTAL COMMITMENTS

• Incorporate environmental management into our industrial sites Of all Legrand sites worldwide, over 80% are ISO 14001-certified

(sites belonging to the Group for more than five years).

• Involve the environment in product design

Provide our customers with all relevant informations (composition, consumption, end of life, etc.). Reduce the environmental impact of products over their whole life cycle.

• Offer our customers environmentally friendly solutions

Develop innovative solutions to help our customers to design more energy efficient, better managed and more environmentally friendly installations.



■ REFERENCE PRODUCT **■**

Function	The product assures the isolation and the protection of low voltage electrical lines in accordance with the IEC 60947-2 standard. Installation on panel. PCR category: passive product. Life span considered for the study: 20 years.
Reference Products	DPX 680
	LG-422063 MCCB DPX ³ 630 - S2 Electronic release - 4P - 400A - 36kA

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.



■ CONCERNED PRODUCTS

The environmental data represent the following Catalogue Numbers:

- LG-422063
- LG-422056 57 58 59 60 61 62 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79;
- LG-422080 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95;
- LG-422136 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59;
- LG-422160 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75;
- LG-422498 99;
- LG-422500 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19;
- LG-422520 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37.



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■ CONSTITUENT MATERIALS

This product contains no substances prohibited by the regulations applicables at the time of its introduction to the market. At the date of publication of this document, this product contains no substances to which the RoHS directives apply (2002/95/EC and review 2011/65/EU) and none of the 155 candidate substances covered by the REACH regulation dated 16/06/2014.

Total weight of Reference	
Products:	7480 g (unit packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight	
Thermoset	39,7 %	Steel 28,3 % El		Electronic cards	0,7 %
Polyamide	3,3 %	Copper alloys	21,0 %	Electric wires	0,1 %
Polycarbonate	2,2 %	Silver alloys	0,1 %	Batteries	< 0,1 %
PVC	0,6 %	Other metals	0,1 %	Paper	< 0,1 %
				Packaging as % of weight	
				Cardboard / Paper	3,9 %
				Polyethylene (LDPE)	< 0,1 %
Total plastics	45,8 %	Total metals 49,5 % Total other and packaging		Total other and packaging	4,7 %

Estimated recycled material content: 21 % by weight



MANUFACTURE

This product comes from sites that have received ISO 14001 certification.



■ DISTRIBUTION ■

The Group's products are distributed from logistics centres located to optimize transport efficiency.

The Reference Product is therefore transported over an average distance of 780 km, essentially by road, representing a marketing in Europe.

Packaging is compliant with european directive 2004/12/EC concerning packaging and packaging waste.

At the packaging end of life, its recycling rate is of 99 % (as % of packaging weight).



■ INSTALLATION ■

Installation components not delivered with the product are not taken into account.



USE I

Servicing and maintenance:

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

Consumable

Two battery changes are necessary during the considered period (lithium ion button batteries - model CR1616).



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■ END OF LIFE ■

Development teams integrate product end of life factors in the design phase. Dismantling and sorting of components or materials is made as easier as possible with a view to recycling or failing that, another form of reuse.

• Recyclability rate:

Calculated using the method described in the IEC/TR 62635 technical report, the recyclability rate of the product is estimated as 59 %. This value is based on data collected from a technological channel using industrial procedures. It does not pre-validate the effective use of this channel for end-of-life electrical and electonic products.

Separated into:

Plastic materials (excluding packaging): 6 %
Metal materials (excluding packaging): 49 %
Packaging (all types of materials): 4 %



■ ENVIRONMENTAL IMPACTS ■

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end of life of the product marketed and used in Europe. The following modelling elements were taken into account:

Manufacture	Unit packaging taken in account. As required by the «PEP ecopassport» programme all transports for the manufacturing of the Reference Product, including materials and components, has been taken in account.
Distribution	Transport between the last Group distribution centre and an average delivery to the sales area.
Installation	Installation components not delivered with the product are not taken into account.
Use	 Maintenance: under normal conditions of use, this type of product requires no servicing or maintenance. Two battery changes are necessary during the considered period. Product category: passive product. Use scenario: continuous operation (100% of the time) at 30% of rated load. This modelling duration does not constitute a minimum durability requirement. Energy model: Electricity mix Europe 2005.
End of life	In view of the data available on the date of creation of the document, and in accordance with the requirements of the PCR of the « PEP ecopassport » programme, was counted transport of the Reference Product by road only once, over a distance of 1000 km, to a processing site at end of life.
Software used	EIME V5 and its database «Legrand-2012-10-31 version 3» developed from database «CODDE-2012-07».



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■ ENVIRONMENTAL IMPACTS I

		Total for L	ife cycle	Raw material a manufactu		Distributio	on	Installatio	n	Use		End of life	
	Contribution to greenhouse effect	7.39E+05	g~CO ₂	3.76E+04	5%	7.39E+02	<1%	0,00E+00	0%	7.00E+05	95%	8.85E+02	<1%
	Damage to the ozone layer	4.70E-02	g~CFC-11	7.82E-03	17%	5.24E-04	1%	0,00E+00	0%	3.80E-02	81%	6.26E-04	1%
indicators	Eutrophisation of water	4.59E+00	g~PO ₄ 3-	2.92E+00	64%	1.23E-02	<1%	0,00E+00	0%	1.64E+00	36%	1.47E-02	<1%
	Photochemical ozone formation	2.59E+02	g~C ₂ H ₄	1.24E+01	5%	6.43E-01	<1%	0,00E+00	0%	2.45E+02	95%	7.68E-01	<1%
Mandatory	Acidification of the air	1.05E+02	g~H⁺	1.10E+01	10%	9.78E-02	<1%	0,00E+00	0%	9.39E+01	89%	1.13E-01	<1%
_	Total energy consumed	1.46E+04	MJ	6.79E+02	5%	9.37E+00	<1%	0,00E+00	0%	1.39E+04	95%	1.12E+01	<1%
	Consumption of water	2.54E+03	dm³	5.37E+02	21%	8.89E-01	<1%	0,00E+00	0%	2.00E+03	79%	1.06E+00	<1%

rs	Depletion of natural resources	1.04E-12	years ⁻¹	1.02E-12	98%	1.28E-17	<1%	0,00E+00	0%	1.57E-14	2%	1.52E-17	<1%
indicators	Toxicity of the air	1.42E+08	m³	2.52E+07	18%	1.45E+05	<1%	0,00E+00	0%	1.16E+08	82%	1.67E+05	<1%
Optional i	Toxicity of the water	2.16E+02	dm³	1.45E+01	7%	1.03E-01	<1%	0,00E+00	0%	2.01E+02	93%	1.23E-01	<1%
d ₀	Production of hazardous waste	1.29E+01	kg	1.28E+00	10%	2.76E-04	<1%	0,00E+00	0%	1.16E+01	90%	3.29E-04	<1%

The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homogeneous environmental family.

Extrapolation rule for the products of the homogeneous family different from those of reference: the environmental impacts of the manufacture phase are proportional to the number of poles, the variations of the environmental impacts of distribution, installation and end of life phases are insignificant; the environmental impacts of the use phase are proportional to the number of poles and to the dissipated powers.

The values of these impacts are valid for the context specified in this document. They must not be used directly to draw up the environmental balance sheet for the installation.

Registration number: LGRP-2014-078-v1-en	Drafting rule: PEP-PCR-ed2.1-FR-2012 12 11 and	Drafting rule: PEP-PCR-ed2.1-FR-2012 12 11 and PSR-0005-ed1-FR-2012 12 11				
Authorisation number of checker: VH02	Programme information: www.pep-	-ecopassport.org				
Date of issue: August 2014	Validity period: 4 years					
Independent verification of the declaration and data, in a Interne \square Externe \square	PEP					
In accordance with ISO 14025 :2006 Type III environments	PASS					
The critical review of the PCR was conducted by a panel	PASS					
The elements of the present PEP cannot be compared wi	PORIS					