### La legrand

Novateur Electrical & Digital Systems Pvt. Ltd.- 61/62, 6th floor, Kalpataru Square, Kondivita Road,Off Andheri-Kurla Road, Andheri (E), Mumbai 400 059, INDIA Tel: 022-3041 6200 - Fax: 022-3041 6201

## **Product Environmental Profile**

DPX<sup>3</sup> 250A Thermal -Magnetic MCCB





#### LEGRAND'S ENVIRONMENTAL COMMITMENTS I

#### • 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	Number of poles $N_{\rm P} = 2$
	- Number of poles Np = 3
	- Rated breaking capacity Icn = 25kA
	- Tripping curve Cd = 10 X In
Reference Product	
	Cat.No 420209

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#### PRODUCTS CONCERNED

The environmental data is representative of the following products:

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#### **Catalogue Numbers**

420205 420207 420208 420209 420235 420237 420238 420239 420265 420267 420268 420269 420605 420607 420608 420609 420215 420217 420218 420219 420245 420247 420248 420249 420275 420277 420278 420279 420615 420617 420618 420619

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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	<b>1977 g</b> (w	ith unit packaging)				
Plastics as % of weight		Metals as % of weight		Other as % of weight		
SEBS	<b>23.9</b> %	Copper alloys	24.9%			
PA	15.8%	Steel	24.8%			
PC	2.2%	Other metal	1.0%			
PVC	0.9%	Silver alloys	0.2%			
Other Plastic	0.3%					
PE	<0.1%			Packaging as % of weight		
				Paper	5.8%	
				PP	0.2%	
Total plastics	43.1%	Total metals	50.9%	Total other and packaging	6.0%	

Estimated recycled material content: 20% 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 1000 km by road from our warehouse to the local point of distribution into the market in India.

Packaging is compliant with with applicable regulation. 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.

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#### 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.

**Product Environmental Profile** 

#### • Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 75%. 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) : 18 %
- metal materials (excluding packaging) :51 %
- other materials (excluding packaging) ~~:~ 0 %
- packaging (all types of materials) : 6 %



#### 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 India, in compliance with the local current standards

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

8 E0091A-EN

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> <li>Product category: passive product«</li> <li>Use scenario: PSR 0005-ed2-EN-2016 03 29 § 3.1.1 « Circuit-breakers »</li> <li>Energy model: Electricity Mix; India, year 2009</li> </ul>						
End of life	The default end of life scenario maximizing the environmental impacts.						
Software and database used	EIME V5 and its database «CODDE-2015-04»						





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#### SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	1.31E+03	kg~CO <sub>2</sub> eq.	1.02E+01	< 1%	6.98E-02	< 1%	7.70E-03	< 1%	1.30E+03	<b>99</b> %	1.12E-01	< 1%
Ozone depletion	3.74E-05	kg~CFC-11 eq.	1.22E-06	3%	1.41E-10	< 1%	6.18E-11	< 1%	3.62E-05	<b>97</b> %	1.60E-09	< 1%
Acidification of soils and water	1.40E+00	kgSO2 eq.	3.56E-02	3%	3.14E-04	< 1%	3.72E-05	< 1%	1.36E+00	<b>97</b> %	4.54E-04	< 1%
Water eutrophication	3.66E-01	kg~P0₄³-eq.	6.10E-03	2%	7.21E-05	< 1%	4.02E-05	< 1%	3.59E-01	<b>98</b> %	6.65E-04	< 1%
Photochemical ozone formation	1.77E-01	kg~C <sub>2</sub> H <sub>4</sub> eq.	2.83E-03	2%	2.23E-05	< 1%	2.64E-06	< 1%	1.74E-01	<b>98</b> %	3.46E-05	< 1%
Depletion of abiotic resources - elements	4.39E-03	kgSb eq.	4.38E-03	100%	2.79E-09	< 1%	3.45E-10	< 1%	6.78E-06	< 1%	5.73E-09	< 1%
Total use of primary energy	2.02E+04	MJ	2.01E+02	< 1%	9.36E-01	< 1%	1.00E-01	< 1%	2.00E+04	<b>99</b> %	1.27E+00	< 1%
Net use of fresh water	1.61E+00	m <sup>3</sup>	1.93E-01	12%	6.25E-06	< 1%	2.69E-06	< 1%	1.42E+00	88%	5.76E-05	< 1%
Depletion of abiotic resources - fossil fuels	2.05E+04	MJ	1.46E+02	< 1%	9.81E-01	< 1%	1.07E-01	< 1%	2.04E+04	<b>99</b> %	1.52E+00	< 1%
Water pollution	6.58E+04	m <sup>3</sup>	7.12E+02	1%	1.15E+01	< 1%	1.17E+00	< 1%	6.51E+04	<b>99</b> %	1.46E+01	< 1%
Air pollution	1.33E+05	m <sup>3</sup>	3.97E+03	3%	2.86E+00	< 1%	9.69E-01	< 1%	1.29E+05	<b>97</b> %	9.20E+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 each phase of the lifecycle are calculated with

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.

Registration N°: LGRP-00570-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-FR-2016 03 29»			
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.org			
Date of issue: 12-2017	Validity period: 5 years			
Independent verification of the declaration and data, in compliance with Internal 🖾 External 🗌				
The PCR review was conducted by a panel of experts chaired by Philippe	e Osset (SOLINNEN)			
The elements of the present PEP cannot be compared with elements from	m another program			
Document in compliance with ISO 14025 : 2010: «Environmental labels ar declarations»	nd declarations. Type III environmental			
Environmental data in alignment with EN 15804 : 2012 + A1 : 2013				