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## **Product Environmental Profile**

DX3 Overvoltage auxiliary (POP)





#### ■ 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	Ensure a protection tripping of the associated device in case of overvoltages between phase and neutral conductor of electrical power by the openning of the primary protection in accordance with standard EN50550 for a period of 20 years.
Reference Product	The plant of the state of the s
	Cat.No 406286
	DX3 Power Overvoltage Protection (POP)

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	
406286	



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Total weight of



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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.

Reference Product	92 g (with	92 g (with unit packaging)							
Plastics as % of weight		Metals as % of weight		Other as % of weight					
PC	36.8%	Copper alloys	5.3%	PWB	7.8%				
PA	4.3%	Steel	4.6%						
PBT	1.5%	other metal	<0.1%						
PVC	0.3%	silver alloys	<0.1%						
Other plastic	0.1%								
		Packaging as % of weight							
PE	<0.1%			Paper	25.8%				
				Wood	13.5 %				
Total plastics	43.0%	Total metals	9.9%	Total other and packaging	47.1%				

Estimated recycled material content: 21 % by mass.



#### ■ MANUFACTURE ■

This Reference Product comes from sites that have 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 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 packaging weight).



#### 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. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

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 90 %. 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)
- packaging (all types of materials)
: 1 %
- packaging (all types of materials)



#### ■ 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	<ul> <li>Product category: passive product</li> <li>Use scenario: continuous operation for 20 years at 30% of rated load, during 100% of the time. This modelling duration does not constitute a minimum durability requirement.</li> <li>Electricity Mix; Europe 27 year 2008</li> </ul>
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME and database «CODDE-2016-11»



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## ■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for Li	fe cycle	Raw material ai manufactu		Distributio	on	Installatio	n	Use		End of life	
Global warming	4.73E+01	kg~CO <sub>2</sub> eq.	7.45E-01	2%	3.59E-03	< 1%	2.12E-03	< 1%	4.65E+01	98%	6.16E-03	< 1%
Ozone depletion	1.14E-05	kg~CFC-11 eq.	9.04E-08	< 1%	7.27E-12	< 1%	1.16E-11	< 1%	1.13E-05	99%	1.46E-10	< 1%
Acidification of soils and water	3.53E-01	kgSO2 eq.	9.57E-04	< 1%	1.61E-05	< 1%	1.01E-05	< 1%	3.52E-01	100%	2.37E-05	< 1%
Water eutrophication	1.35E-02	kg~PO <sub>4</sub> ³-eq.	2.75E-04	2%	3.70E-06	< 1%	8.53E-06	< 1%	1.32E-02	98%	2.84E-05	< 1%
Photochemical ozone formation	1.68E-02	kg~C <sub>2</sub> H <sub>4</sub> eq.	1.34E-04	< 1%	1.15E-06	< 1%	7.15E-07	< 1%	1.66E-02	99%	1.84E-06	< 1%
Depletion of abiotic resources - elements	1.19E-04	kgSb eq.	1.17E-04	98%	1.44E-10	< 1%	9.00E-11	< 1%	2.12E-06	2%	3.84E-10	< 1%
Total use of primary energy	8.13E+02	MJ	1.01E+01	1%	4.81E-02	< 1%	2.80E-02	< 1%	8.03E+02	99%	6.61E-02	< 1%
Net use of fresh water	1.26E-01	m³	4.70E-03	4%	3.21E-07	< 1%	5.28E-07	< 1%	1.21E-01	96%	5.06E-06	< 1%
Depletion of abiotic resources - fossil fuels	4.89E+02	MJ	9.26E+00	2%	5.04E-02	< 1%	2.95E-02	< 1%	4.80E+02	98%	8.73E-02	< 1%
Water pollution	2.20E+03	m³	2.41E+02	11%	5.90E-01	< 1%	3.33E-01	< 1%	1.95E+03	89%	7.14E-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.

Registration N°: LGRP-00579-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02»				
Verifier accreditation N°: VH02	Information and reference documents: www.pep-ecopassport.org				
Date of issue: 10-2018	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	PEP				
The elements of the present PEP cannot be compared with elements fro	PASS				
Document in compliance with ISO 14025 : 2010: «Environmental labels ar declarations»	PORT				
Environmental data in alignment with EN 15804 : 2012 + A1 : 2013					