

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

Your usual Sales office www.legrand.com

## **Product Environmental Profile**

Interface for 160, 250, 630 and 1600 electronic DPX<sup>3</sup>





#### ■ 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 ■

Convert during 10 years the data available on the electronic card of circuit breakers in MODBUS RS-485 protocol data, also detecting the circuit breaker properties, chronological tripping log and last trip details. Supply voltage: 24 V~/= - 1 DIN module.
le grand
LG-421075
Interface for 160, 250, 630 and 1600 electronic DPX <sup>3</sup> - 24 V~/= - 1 DIN module

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-421075	



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

Your usual Sales office www.legrand.com

## **Product Environmental Profile**

Interface for 160, 250, 630 and 1600 electronic DPX<sup>3</sup>





#### **■ 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 161 g (all packaging included)							
Plastics as % of weight		Metals as % of weight		Other as % of weight			
Polycarbonate	7,7 %	Copper alloys	0,8 %	Cables / Electric wires	21,7 %		
ABS	2,4 %	Other metals	0,6 %	Electronic cardboards	18,2 %		
PBT	1,8 %						
Polyamide	1,7 %						
PVC	0,4 %						
POM	0,4 %						
Other plastics	0,4 %						
	·	Packagir	ng				
Other plastics	1,0 %	Steel	0,2 %	Paper / Cardboard	22,0 %		
				Wood	20,7 %		
Total plastics	15,8 %	Total metals	1,6 %	Total other	82,6 %		

Estimated recycled material content: 17 % 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 applicable regulations concerning packaging and packaging waste. At their end of life, its recyclability rate is 95 % (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.



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

Your usual Sales office www.legrand.com

## **Product Environmental Profile**

Interface for 160, 250, 630 and 1600 electronic DPX<sup>3</sup>





#### ■ 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.

#### • 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:

- external electric cables: 35 g
- electronic cards more than 10 cm<sup>2</sup>: 29 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 73 %. 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:



#### ■ 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	<ul> <li>Product category: PSR-0005-ed2-2016 03 29 - § 3.13. Other equipments - Active products</li> <li>Use scenario: ten-year working life. Active mode power: 2,2 W for 100 % of the time. This modelling duration does n constitute a minimum durabilty requirement.</li> <li>Energy model: Electricity Mix, Europe 27 - 2008.</li> </ul>					
End of life	d of life The default end of life scenario maximizing the impacts.					
Software and database used	LEIME V5 and its database «CODDE-2018-11»					



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

Your usual Sales office www.legrand.com

# **Product Environmental Profile**

Interface for 160, 250, 630 and 1600 electronic DPX<sup>3</sup>





### ■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for I	_ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	9.70E+01	kgCO <sub>2</sub> eq.	2.56E+00	3%	6.25E-03	< 1%	4.10E-03	< 1%	9.44E+01	97%	1.07E-02	< 1%
Ozone depletion	7.01E-06	kgCFC-11 eq.	8.55E-07	12%	1.27E-11	< 1%	2.39E-11	< 1%	6.15E-06	88%	2.70E-10	< 1%
Acidification of soils and water	3.98E-01	kgSO <sub>2</sub> eq.	3.78E-03	< 1%	2.81E-05	< 1%	1.92E-05	< 1%	3.94E-01	99%	4.08E-05	< 1%
Water eutrophication	2.53E-02	kg(PO <sub>4</sub> )³- eq.	1.47E-03	6%	6.45E-06	< 1%	1.44E-05	< 1%	2.38E-02	94%	4.68E-05	< 1%
Photochemical ozone formation	2.20E-02	kgC <sub>2</sub> H <sub>4</sub> eq.	3.99E-04	2%	2.00E-06	< 1%	1.36E-06	< 1%	2.16E-02	98%	3.18E-06	< 1%
Depletion of abiotic resources - elements	8.58E-04	kgSb eq.	8.49E-04	99%	2.50E-10	< 1%	1.77E-10	< 1%	8.20E-06	< 1%	6.85E-10	< 1%
Total use of primary energy	1.93E+03	МЛ	4.21E+01	2%	8.84E-02	< 1%	5.63E-02	< 1%	1.89E+03	98%	1.17E-01	< 1%
Net use of fresh water	3.42E+02	m³	5.49E-02	< 1%	5.59E-07	< 1%	1.03E-06	< 1%	3.42E+02	100%	9.32E-06	< 1%
Depletion of abiotic resources - fossil fuels	1.09E+03	МЛ	1.51E+01	1%	8.78E-02	< 1%	5.51E-02	< 1%	1.07E+03	99%	1.04E-01	< 1%
Water pollution	4.19E+03	m³	2.96E+02	7%	1.03E+00	< 1%	6.41E-01	< 1%	3.90E+03	93%	1.21E+00	< 1%
Air pollution	4.29E+03	m³	2.25E+02	5%	2.56E-01	< 1%	3.73E-01	< 1%	4.06E+03	95%	1.26E+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.

Registration N°: LGRP-01583-V01.02-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0005-ed2-2016 03 29
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.org
Date of issue: 03-2022	Validity period: 5 years
Independent verification of the declaration and data, in com Internal ☑ External ☐	npliance with ISO 14025:2010
The PCR review was conducted by a panel of experts chaire	ed by Philippe Osset (SOLINNEN)
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared with	elements from another program    CO   PASS
Document in compliance with ISO 14025 : 2010: «Environme declarations»	ental labels and declarations. Type III environmental
Environmental data in alignment with EN 15804 : 2012 + A1	: 2013