128 av. du Maréchal-de-Lattre-de-Tassigny
87045 Limoges Cedex France
Tel. +33 (0) 5 55 06 87 87
Fax. + 33 (0) 5 55 06 88 88

Your usual Sales office
www.legrand.com

Product Environmental Profile

Remote trip isolating switch DX^3

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	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current Ith 63A, including any conditions specified for overload in operation characterized by the current Ie 63A, for the operating voltage Ue 400V and a current for shortcircuit Icw 1000A for a specified time.
Reference Product	
	Cat.No 406544
	DX3 IS-A 63A 4P

PRODUCTS CONCERNED

The environmental data is representative of the following products:

Catalogue Numbers :

4 065 27, 4 065 28, 4 065 35, 4 065 36, 4 065 43, 4 065 44

128 av. du Maréchal-de-Lattre-de-Tassigny
87045 Limoges Cedex France
Tel. +33 (0) 5 55 06 87 87
Fax. + 33 (0) 5 55 06 88 88

Your usual Sales office
www.legrand.com

Product Environmental Profile

Remote trip isolating switch DX^3

PEP ecopassport®

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	404 g (with unit packaging)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PA	41.7%	Copper alloys	22.4%		
Other plastic	1.8%	Steel	16.4%		
PBT	1.8%	Al	1.2%		
PC	0.5%	Silver alloys	0.2%		
POM	0.5%	Other metal	<0.1%		
PS	0.3%				
		Packaging as % of weight			
				Paper	9.1%
				Wood	4.1%
Total plastics	46.6%	Total metals	40.2%	Total other and packaging	13.2%

Estimated recycled material content: 17% 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 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 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.

128 av. du Maréchal-de-Lattre-de-Tassigny
87045 Limoges Cedex France
Tel. +33 (0) 5 55 06 87 87
Fax. + 33 (0) 5 55 06 88 88

Your usual Sales office
www.legrand.com

Product Environmental Profile

Remote trip isolating switch DX^3

PEP ecopassport®

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.

• 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 96%. 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) : 43 %
- metal materials (excluding packaging) : 40 %
- 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 §3.5 Switches • Use scenario: non-continuous operation for 20 years at 50% of rated load, during 30% of the time. This modelling duration does not constitute a minimum durability requirement. • Energy model: Electricity Mix; Europe27 year 2008
End of life	The default end of life scenario maximizing the environmental impacts.
Software and database used	EIME & database «CODDE-2016-11»

128 av. du Maréchal-de-Lattre-de-Tassigny
87045 Limoges Cedex France
Tel. +33 (0) 5 55 06 87 87
Fax. + 33 (0) 5 55 06 88 88

Your usual Sales office
www.legrand.com

Product Environmental Profile

Remote trip isolating switch DX^3

SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	5.27E+01	kg~CO_2 eq.	3.24E+00	6%	1.57E-02	< 1%	3.12E-03	< 1%	4.94E+01	94%	3.31E-02	< 1%
Ozone depletion	3.95E-06	kg~CFC-11 eq.	7.36E-07	19%	3.18E-11	< 1%	1.73E-11	< 1%	3.22E-06	81%	6.45E-10	< 1%
Acidification of soils and water	2.13E-01	kgSO2 eq.	7.21E-03	3%	7.05E-05	< 1%	1.50E-05	< 1%	2.06E-01	97%	1.30E-04	< 1%
Water eutrophication	1.44E-02	kg~PO_4^{3-}eq.	1.76E-03	12%	1.62E-05	< 1%	1.30E-05	< 1%	1.24E-02	86%	1.72E-04	1%
Photochemical ozone formation	1.19E-02	kg~C_2H_4 eq.	5.59E-04	5%	5.01E-06	< 1%	1.06E-06	< 1%	1.13E-02	95%	1.00E-05	< 1%
Depletion of abiotic resources - elements	1.19E-03	kgSb eq.	1.18E-03	100%	6.28E-10	< 1%	1.33E-10	< 1%	4.29E-06	< 1%	1.90E-09	< 1%
Total use of primary energy	1.03E+03	MJ	4.64E+01	4%	2.22E-01	< 1%	4.32E-02	< 1%	9.86E+02	95%	3.78E-01	< 1%
Net use of fresh water	1.79E+02	m^3	3.33E-02	< 1%	1.40E-06	< 1%	7.90E-07	< 1%	1.79E+02	100%	2.26E-05	< 1%
Depletion of abiotic resources - fossil fuels	6.01E+02	MJ	3.98E+01	7%	2.21E-01	< 1%	4.35E-02	< 1%	5.60E+02	93%	4.60E-01	< 1%
Water pollution	2.28E+03	m^3	2.36E+02	10%	2.58E+00	< 1%	4.91E-01	< 1%	2.04E+03	89%	4.05E+00	< 1%
Air pollution	2.85E+03	m^3	7.23E+02	25%	6.43E-01	< 1%	3.24E-01	< 1%	2.12E+03	74%	3.27E+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

To determine the environmental impact of a product covered by the PEP other than the cat.number, the following rules apply :

- distribution, installation and End of Life phases are negligible

- the impacts of the manufacturing and use phase are proportional to the number of poles and the power losses.

Registration N°: LGRP-00689-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-FR-2016 03 29»
Verifier accreditation N°: VH23	Information and reference documents : www.pep-ecopassport.org
Date of issue: 12-2020	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025:2010 Internal ☒ External ☐	
The PCR review was conducted by a panel of experts chaired 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	
Document in compliance with ISO 14025 : 2010: «Environmental labels and declarations. Type III environmental declarations»	
Environmental data in alignment with EN 15804 : 2012 + A1 : 2013	