

Product Environmental Profile

Fuse Switch Disconnecter R300 3P



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	Turn off all or part of an installation by separating the installation or part of the installation of all electrical energy or earth, for safety reasons with a rated voltage 400V, and rated current 63A ensuring isolation characterised by a rated voltage 440V, and protection degree IP 20 (in accordance with the standard IEC 60529), according to the appropriate use scenario, and during the reference service life of the product of 20 years. .
Reference Product	 403053 R300 3P Switch Disconnecter 63A - 400V

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:

References:
403050, 403051, 403052, 403054

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COSTITUENT 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 amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of the Reference Product		0.542 kg (all packaging included)			
Product (alone): 0.424 kg					
Plastics as % weight		Metals as % weight		Other as % weight	
Polyamide	40.3 %	Copper and coper alloys	21.2 %		
PBT	0.4 %	Steel	15.6 %		
Polycarbonate	0.1 %	Aluminium	0.4 %		
		Silver and silver alloys	0.2 %		
Packaging (alone): 0.118 kg					
Polyethylene (LDPE)	0.1 %			Wood	12.1 %
				Cardboard	9.6 %
Total plastics : 0.221 kg	40.9 %	Total metals : 0.203 kg	37.4 %	Total others: 0.118 kg	21.7 %

At the date of edition of this document, the content of recycled material(s) is :

- Product alone (excluding packaging): 27 % by mass
- Packaging only: 44 % by mass



MANUFACTURE

This Reference Product comes from a site that has received ISO 14001 certification
The product is assembled in Hungary.



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 of Europe.
Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste.



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 end-of-life of products is considered from the design stage. Dismantling and sorting of components or materials is made as easy as possible for recycling or, failing that, for another form of recovery.

This product falls within the scope of the WEEE Directive (2012/19/EU). It must therefore be processed through local WEEE end-of-life channels.

Extended Producer Responsibility

The marketing of this product is subject to a contribution to the eco-organizations responsible, in each European country, for managing the end-of-life of products within the scope of the European Directive on Waste Electrical and Electronic Equipment (WEEE).



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 of products marketed and used in Europe, in compliance with the local current standards.

The datasets collected in this PEP are representative of the year 2025.

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

System Limits	Manufacture A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturer
	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area
	Installation A5	The end of life of the packaging.
	Use B1-B7	- Product Category: PSR-0005-ed3.1-2023 12 08 - § 3.6 «Disconnectors» - 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_Low voltage_2022_Europe_EU-27
	End of Life C1-C4	The end of life treatment scenario according to PCR-ed4-FR-2021 09 06.
Module D		Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and burdens beyond the boundaries of the system, and are not to be included in the life cycle totals.
Software and database used		EIME V6 and its CODDE-2024-04 database The set of indicators used is Indicators for PEF EF 3.1 (Compliance: PEF ed.4, EN15804+A2) v2.0

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aforementioned database.

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ENVIRONMENTAL IMPACTS

	Total Life Cycle		Manufacturing	Distribution	Installation	Use(*)			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Climate change - total	3.13E+01	kg CO2 eq.	2.09E+00	2.16E-02	2.19E-01	2.87E+01	0.00E+00	2.87E+01	3.01E-01	-1.99E-01
Climate change - fossil fuels	3.07E+01	kg CO2 eq.	2.25E+00	2.16E-02	4.23E-02	2.80E+01	0.00E+00	2.80E+01	2.99E-01	-1.33E-01
Climate change - biogenics	6.49E-01	kg CO2 eq.	-1.63E-01	0*	1.77E-01	6.34E-01	0.00E+00	6.34E-01	1.73E-03	-6.53E-02
Climate change - land use and land use transformation	1.13E-06	kg CO2 eq.	1.01E-06	3.12E-08	1.08E-09	0.00E+00	0.00E+00	0.00E+00	9.53E-08	0.00E+00
Ozone depletion	2.19E-07	kg.equivalent. CFC-11	7.70E-08	2.47E-10	1.46E-09	1.23E-07	0.00E+00	1.23E-07	1.74E-08	1.73E-08
Acidification (AP)	1.60E-01	mole of H+ equiv	7.77E-03	3.41E-05	2.42E-04	1.50E-01	0.00E+00	1.50E-01	1.83E-03	6.67E-03
Freshwater eutrophication	1.37E-04	kg P eq.	6.74E-05	7.92E-08	5.14E-08	6.87E-05	0.00E+00	6.87E-05	4.83E-07	9.02E-07
Marine aquatic eutrophication	1.96E-02	kg of N equiv	1.69E-03	6.54E-06	5.77E-05	1.76E-02	0.00E+00	1.76E-02	3.29E-04	4.51E-05
Terrestrial eutrophication	3.03E-01	mole of N equiv	1.65E-02	7.18E-05	7.71E-04	2.82E-01	0.00E+00	2.82E-01	4.25E-03	3.04E-04
Photochemical ozone formation	6.22E-02	kg of NMVOC equiv	5.32E-03	2.29E-05	1.63E-04	5.57E-02	0.00E+00	5.57E-02	1.01E-03	3.62E-04
Depletion of abiotic resources - elements	1.12E-03	kg.equivalent. Sb	1.11E-03	0*	0*	9.30E-06	0.00E+00	9.30E-06	0*	6.76E-05
Depletion of abiotic resources - fossil fuels	7.45E+02	MJ	5.12E+01	3.77E-01	7.92E-01	6.88E+02	0.00E+00	6.88E+02	5.28E+00	-1.75E+01
Water requirement	2.79E+00	m3 of equiv. deprivation worldwide	5.74E-01	7.68E-04	2.46E-03	2.17E+00	0.00E+00	2.17E+00	4.30E-02	2.62E-01
Emission of fine particles	1.27E-06	incidence of diseases	7.58E-08	3.00E-10	1.68E-09	1.18E-06	0.00E+00	1.18E-06	1.20E-08	3.25E-08

(*) For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table.

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column.

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Total Life Cycle			Manufacturing	Distribution	Installation	Use(*)			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Ionizing radiation, human health	3.83E+01	kBq of U235 equiv.	6.80E-01	0*	1.63E-02	3.75E+01	0.00E+00	3.75E+01	9.71E-02	1.35E-01
Ecotoxicity (fresh water)	4.28E+03	CTUe	4.23E+03	5.91E-01	1.02E+00	4.30E+01	0.00E+00	4.30E+01	6.27E+00	2.85E+00
Human toxicity, carcinogenic effects	1.64E-07	CTUh	1.60E-07	0*	0*	3.55E-09	0.00E+00	3.55E-09	6.63E-11	-4.73E-08
Human toxicity, non-carcinogenic effects	3.20E-07	CTUh	2.33E-07	8.36E-11	3.01E-10	8.40E-08	0.00E+00	8.40E-08	3.35E-09	9.83E-08
Impacts related to land use/soil quality	7.74E-01	-	6.28E-03	8.84E-05	9.53E-04	7.60E-01	0.00E+00	7.60E-01	5.71E-03	0.00E+00
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.62E+02	MJ	4.54E-01	0*	7.07E-02	1.61E+02	0.00E+00	1.61E+02	3.79E-01	-4.13E-02
Use of renewable primary energy resources used as raw materials	1.70E+00	MJ	1.70E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.64E+02	MJ	2.15E+00	0*	7.07E-02	1.61E+02	0.00E+00	1.61E+02	3.79E-01	8.96E-01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	7.38E+02	MJ	4.36E+01	3.77E-01	7.92E-01	6.88E+02	0.00E+00	6.88E+02	5.28E+00	-1.75E+01
Use of non-renewable primary energy resources used as raw materials	7.59E+00	MJ	7.59E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	7.45E+02	MJ	5.12E+01	3.77E-01	7.92E-01	6.88E+02	0.00E+00	6.88E+02	5.28E+00	-1.75E+01

(*) For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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Total Life Cycle			Manufacturing	Distribution	Installation	Use(*)			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Use of secondary materials	2.04E-01	kg	2.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	6.56E-02	m³	1.35E-02	1.79E-05	5.64E-05	5.08E-02	0.00E+00	5.08E-02	1.23E-03	6.11E-03
Hazardous waste disposed of	4.87E+00	kg	3.47E+00	0*	4.42E-02	7.92E-01	0.00E+00	7.92E-01	5.66E-01	5.26E+00
Non-hazardous waste disposed of	4.75E+00	kg	2.64E-01	1.92E-03	5.70E-03	4.32E+00	0.00E+00	4.32E+00	1.56E-01	-4.88E-03
Radioactive waste disposed of	1.17E-03	kg	1.30E-04	1.52E-06	2.39E-06	1.02E-03	0.00E+00	1.02E-03	1.70E-05	-1.11E-05
Components for re-use	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	1.82E-01	kg	4.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	0.00E+00
Materials for energy recovery	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	0.00E+00	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	9.09E+02	MJ	5.33E+01	3.78E-01	8.63E-01	8.49E+02	0.00E+00	8.49E+02	5.66E+00	-1.66E+01
Biogenic carbon content of the product	0.00E+00	kg of C.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	5.81E-02	kg of C.	5.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-02

(*) For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

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The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.

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To determine the environmental impact values of the products concerned other than the Reference Product, apply the coefficient values below to the environmental impacts of the different life phases of the Reference Product.

Reference	Total Life Cycle	Fabrication	Distribution	Installation	Use	End of Life
403053	1.0	1.0	1.0	1.0	1.0	1.0
403050	0.3	0.3	0.3	0.3	0.3	0.3
403051	0.9	0.6	0.6	0.5	1.2	0.6
403052	1.0	0.6	0.6	0.5	1.3	0.7
403054	3.0	1.2	1.2	1.0	5.0	1.3

Registration number: LGRP-02293-V01.01-EN	Drafting rules: « PEP-PCR-ed4-EN-2021 09 06 » Supplemented by «PSR-0005-ed3.1-FR-2023 12 08»
Verifier accreditation N°: VH23	Information and reference documents: www.pep-ecopassport.org
Date of issue: 02-2026	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 Julie ORGELET (DDemain)	
PEP are compliant with XP C08-100-1 :2016 or EN 50693 :2019	
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 + A2 : 2019