## La legrand

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Your usual Sales office www.legrand.com

# **Product Environmental Profile**

SYNERGY Fused connection unit - DP switched - indicator - 13 A - white





### 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	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized to a 250 V low voltage with rated load not exceeding 13 A. Protect downstream equipment against effects of overload or short circuit, by interrupting the current. The product is equipped with a power indicator light.
Reference Product	
	Cat.No 7 300 35
	SYNERGY Fused connection unit - DP switched - indicator - 13 A - white.

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance a cannot be held binding on the company.



#### PRODUCTS CONCERNED

The environmental data is representative of the following products:

#### Catalogue Numbers

• 7 300 34

• 7 301 36

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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 Product131 g (all packaging included)						
Plastics as % of weight		Metals as % of weight		Other as % of weight		
Thermoset	36.0 %	Steel	18.4 %	Various electronic components	2.7 %	
PP	10.6 %	Copper alloys	6.8 %			
PC	3.2 %	Other metal	0.3 %			
PA	0.3 %	Silver alloys	< 0.1 %			
		Silver alloys	< 0.1 %	6 Packaging as % of weight		
				Paper (packaging)	11.6 %	
				Wood (packaging)	9.5 %	
				PP (packaging)	0.6 %	
Total plastics	50.1 %	Total metals	25.5 %	Total other and packaging	24.4 %	

Estimated recycled material content: 19 % by mass.



#### MANUFACTURE

This Reference Product comes from a site that has 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 240 km by road from our warehouse to the local point of distribution into the market in United Kingdom.

Packaging is compliant with applicable regulation. 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.

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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.

#### • Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 59 %. 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:

d into.	
- plastic materials (excluding packaging)	: 13 %
<ul> <li>metal materials (excluding packaging)</li> </ul>	: 25 %
<ul> <li>other materials (excluding packaging)</li> </ul>	:0%
- packaging (all types of materials)	: 21 %



### 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 United Kingdom. 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: 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.</li> <li>Energy model: Electricity Mix; Great Britain - 2002.</li> </ul>				
End of life	The default end of life scenario maximizing the impacts.				
Software and database used	LEIME V5 and its database «CODDE-2015-04»				



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## SELECTION OF ENVIRONMENTAL IMPACTS

	Total for L	.ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	e
Global warming	4.34E+01	kgCO <sub>2</sub> eq.	3.69E-01	< 1 %	1.57E-03	< 1 %	1.67E-03	< 1 %	4.30E+01	<b>99</b> %	1.03E-02	< 1 %
Ozone depletion	6.84E-06	kgCFC-11 eq.	9.35E-08	1 %	3.18E-12	< 1 %	1.03E-11	< 1 %	6.74E-06	<b>99</b> %	2.23E-10	< 1 %
Acidification of soils and water	2.57E-01	kgSO <sub>2</sub> eq.	1.14E-03	< 1 %	7.06E-06	< 1 %	7.82E-06	< 1 %	2.55E-01	100 %	4.03E-05	< 1 %
Water eutrophication	1.37E-02	kg(PO₄)³- eq.	2.53E-04	2 %	1.62E-06	<1%	6.08E-06	< 1 %	1.34E-02	<b>98</b> %	5.08E-05	< 1 %
Photochemical ozone formation	1.27E-02	kgC <sub>2</sub> H <sub>4</sub> eq.	9.64E-05	< 1 %	5.01E-07	< 1 %	5.56E-07	< 1 %	1.26E-02	<b>99</b> %	3.12E-06	< 1 %
Depletion of abiotic resources - elements	1.11E-03	kgSb eq.	1.11E-03	100 %	6.29E-11	< 1 %	7.25E-11	< 1 %	9.09E-07	< 1 %	6.19E-10	< 1 %
Total use of primary energy	5.36E+02	MJ	1.99E+01	4 %	2.11E-02	< 1 %	2.19E-02	< 1 %	5.16E+02	<b>96</b> %	1.13E-01	< 1 %
Net use of fresh water	1.11E-01	m <sup>3</sup>	4.57E-03	4 %	1.41E-07	< 1 %	4.39E-07	< 1 %	1.06E-01	<b>96</b> %	7.78E-06	< 1 %
Depletion of abiotic resources - fossil fuels	5.13E+02	LМ	1.09E+01	2 %	2.21E-02	< 1 %	2.33E-02	< 1 %	5.01E+02	<b>98</b> %	1.45E-01	< 1 %
Water pollution	1.42E+03	m <sup>3</sup>	5.68E+01	4 %	2.58E-01	< 1 %	2.60E-01	< 1 %	1.36E+03	<b>96</b> %	1.23E+00	< 1 %
Air pollution	1.35E+03	m <sup>3</sup>	1.04E+02	8 %	6.44E-02	< 1 %	1.57E-01	< 1 %	1.24E+03	<b>92</b> %	1.09E+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 obtained by adopting the following coefficients:

	Sum	Manufacture	Distribution	Installation	Use	End of life
7 300 34	0.7	0.9	1	1	0.7	1
7 301 36	0.7	1	1.1	1	0.7	1.2

Registration N°: LGRP-00493-V01-01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-EN-2016.03.29»
Verifier accreditation N°: VH23	Information and reference documents: www.pep-ecopassport.org
Date of issue: 09-2017	Validity period: 5 years
Independent verification of the declaration and data, in com Internal 🛛 External 🗌	pliance with ISO 14025 : 2010
The PCR review was conducted by a panel of experts chaire	d by Philippe Osset (SOLINNEN)
PEP are compliant with XP C08-100-1 : 2014 The elements of the present PEP cannot be compared with	elements from another program
Document in compliance with ISO 14025 : 2010: «Environme Type III environmental declarations»	
Environmental data in alignment with EN 15804: 2012 + A1	: 2013