

# Product Environmental Profile

## SCREW CLAMP BASE 12A

TeSys U Power Base





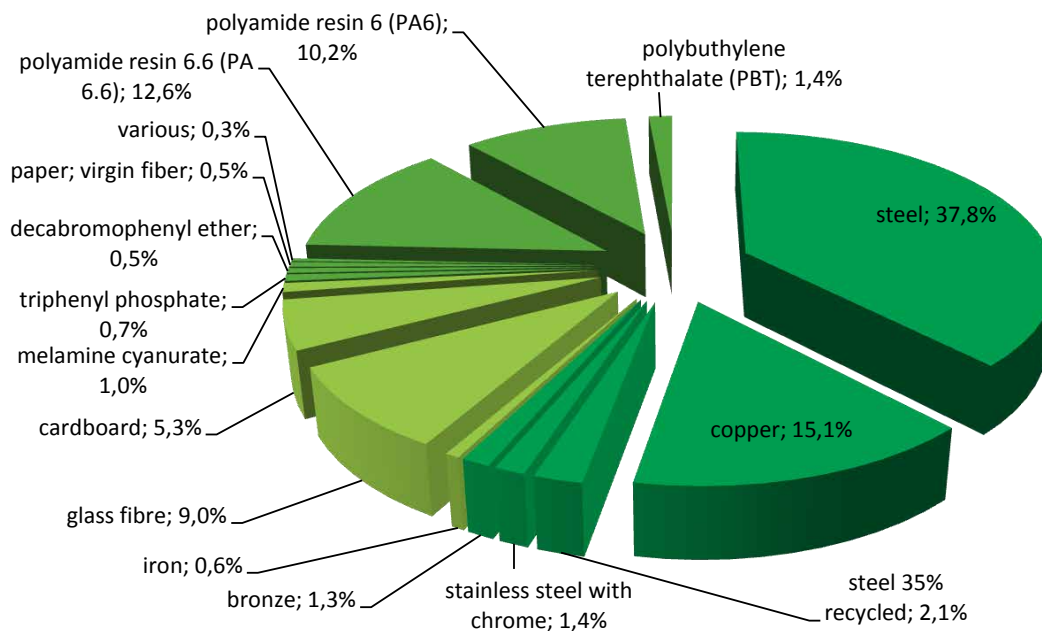
## General information

<b>Representative product</b>	SCREW CLAMP BASE 12A -LUB12
<b>Description of the product</b>	The product is a SCREW CLAMP BASE 12A included in passive products - non-continuous operation category. The main purpose of the product is to control and protect 0.09 to 18 kW motors, with voltages up to 690 V a.c. and a maximum short-circuit breaking capacity of 50 kA.
<b>Description of the range</b>	TeSys U Power Base The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.
<b>Functional unit</b>	To control and protect 0.09 to 18 kW motors, with voltages up to 690 V a.c. and a maximum short-circuit breaking capacity of 50 kA for 20 years.



## Constituent materials

**Reference product mass** 806.6 g including the product, its packaging and additional elements and accessories



## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

[http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium\\_page](http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium_page)



## Additional environmental information

## The SCREW CLAMP BASE 12A presents the following relevant environmental aspects

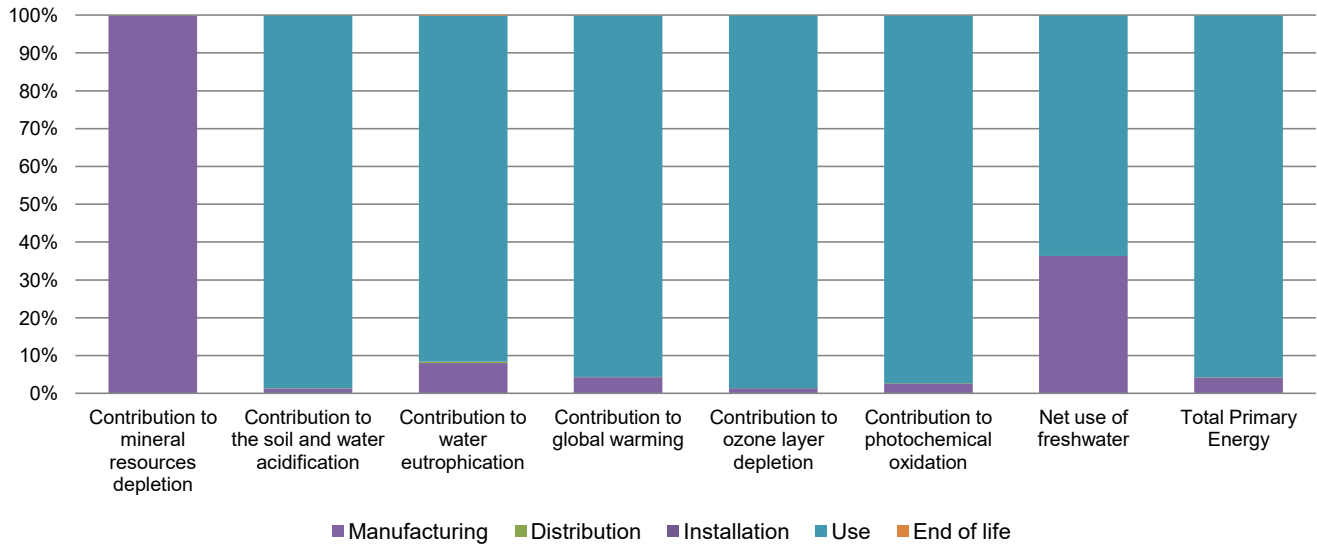
<b>Design</b>	
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 46.7 g, consisting of cardboard (42.3g) and paper (4.4g)  Product distribution optimised by setting up local distribution centres
<b>Installation</b>	LUB12 does not require any installation operations.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains plastic parts with brominated FR (30.7g) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>  Recyclability potential: <b>59%</b> Based on Eco'DEEE method


**Environmental impacts**

<b>Reference life time</b>	20 years			
<b>Product category</b>	Passive products - non-continuous operation			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	Product dissipation is 2.8 W full load, loading rate is 30% and service uptime percentage is 30%			
<b>Geographical representativeness</b>	Europe			
<b>Technological representativeness</b>	The product is a SCREW CLAMP BASE 12A included in passive products - non-continuous operation category. The main purpose of the product is to control and protect 0.09 to			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: France	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-

Compulsory indicators		SCREW CLAMP BASE 12A - LUB12					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3,72E-03	3,72E-03	4,16E-09	1,39E-10	3,96E-06	2,25E-09
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	6,67E-01	8,95E-03	4,75E-04	1,40E-05	6,57E-01	2,25E-04

Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	2,70E-02	2,15E-03	1,09E-04	3,32E-06	2,46E-02	6,08E-05
Contribution to global warming	kg CO <sub>2</sub> eq	9,10E+01	3,92E+00	1,04E-01	4,47E-03	8,69E+01	1,09E-01
Contribution to ozone layer depletion	kg CFC11 eq	2,14E-05	2,85E-07	2,11E-10	3,68E-10	2,11E-05	5,02E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	3,19E-02	8,15E-04	3,39E-05	1,47E-06	3,11E-02	2,36E-05
<b>Resources use</b>	<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Net use of freshwater	m3	3,56E-01	1,30E-01	9,31E-06	5,47E-06	2,27E-01	9,96E-05
Total Primary Energy	MJ	1,84E+03	7,75E+01	1,47E+00	7,66E-02	1,76E+03	1,22E+00



Optional indicators		SCREW CLAMP BASE 12A - LUB12					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	9,49E+02	5,14E+01	1,46E+00	6,32E-02	8,95E+02	1,01E+00
Contribution to air pollution	m <sup>3</sup>	4,95E+03	1,21E+03	4,43E+00	4,94E-01	3,73E+03	7,94E+00
Contribution to water pollution	m <sup>3</sup>	3,80E+03	1,31E+02	1,71E+01	5,29E-01	3,65E+03	9,33E+00
<b>Resources use</b>	<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Use of secondary material	kg	2,49E-02	2,49E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renewable primary energy resources	MJ	1,28E+02	1,80E+00	1,96E-03	7,60E-05	1,26E+02	1,23E-03
Total use of non-renewable primary energy resources	MJ	1,71E+03	7,57E+01	1,47E+00	7,65E-02	1,63E+03	1,22E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,27E+02	9,72E-01	1,96E-03	7,60E-05	1,26E+02	1,23E-03
Use of renewable primary energy resources used as raw material	MJ	8,29E-01	8,29E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,71E+03	6,95E+01	1,47E+00	7,65E-02	1,63E+03	1,22E+00
Use of non renewable primary energy resources used as raw material	MJ	6,23E+00	6,23E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non renewable secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
<b>Waste categories</b>	<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Hazardous waste disposed	kg	4,78E+01	4,66E+01	0,00E+00	9,36E-02	0,00E+00	1,07E+00
Non hazardous waste disposed	kg	3,26E+02	1,10E+00	3,70E-03	2,10E-04	3,25E+02	3,38E-03
Radioactive waste disposed	kg	2,65E-01	5,20E-04	2,63E-06	3,46E-07	2,65E-01	5,31E-06
<b>Other environmental information</b>	<b>Unit</b>	<b>Total</b>	<b>Manufacturing</b>	<b>Distribution</b>	<b>Installation</b>	<b>Use</b>	<b>End of Life</b>
Materials for recycling	kg	5,08E-01	6,45E-02	0,00E+00	0,00E+00	0,00E+00	4,43E-01

Components for reuse	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	kg	1,46E-02	1,85E-03	0,00E+00	0,00E+00	0,00E+00	1,27E-02
Exported Energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00


Life cycle assessment performed with EIME version EIME v5.5, database version 2015-04.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

"Depending on the impact analysis, the environmental indicators (without APDe) of other products in this family may be proportional extrapolated by energy consumption values". For APDe, impact may be proportional extrapolated by mass of the product.

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration N°	SCHN-00007-V01.01-EN	Applicable PCR	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH08	Applicable PSR	PSR-005-ed1-EN-2012 12 11
Date of issue	02/03/2016	Program information	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Period of validity	5 years
Independent verification of the declaration and data, according to ISO 14025:2010			
Internal	External	X	
Compliant with ISO 14025:2010 Type III environmental declarations			
PCR review was conducted by an expert panel chaired by P. Osset (Solinnen).			
The content of this PEP cannot be compared with content based on another program			

Schneider Electric Industries SAS

35, rue Joseph Monier  
CS 30323  
F- 92506 Rueil Malmaison Cedex  
RCS Nanterre 954 503 439  
Capital social 896 313 776 €

[www.schneider-electric.com](http://www.schneider-electric.com)

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