

# Product Environmental Profile

**Easypact EZC630N circuit breaker, TMD, 600A ,3 poles 3d**





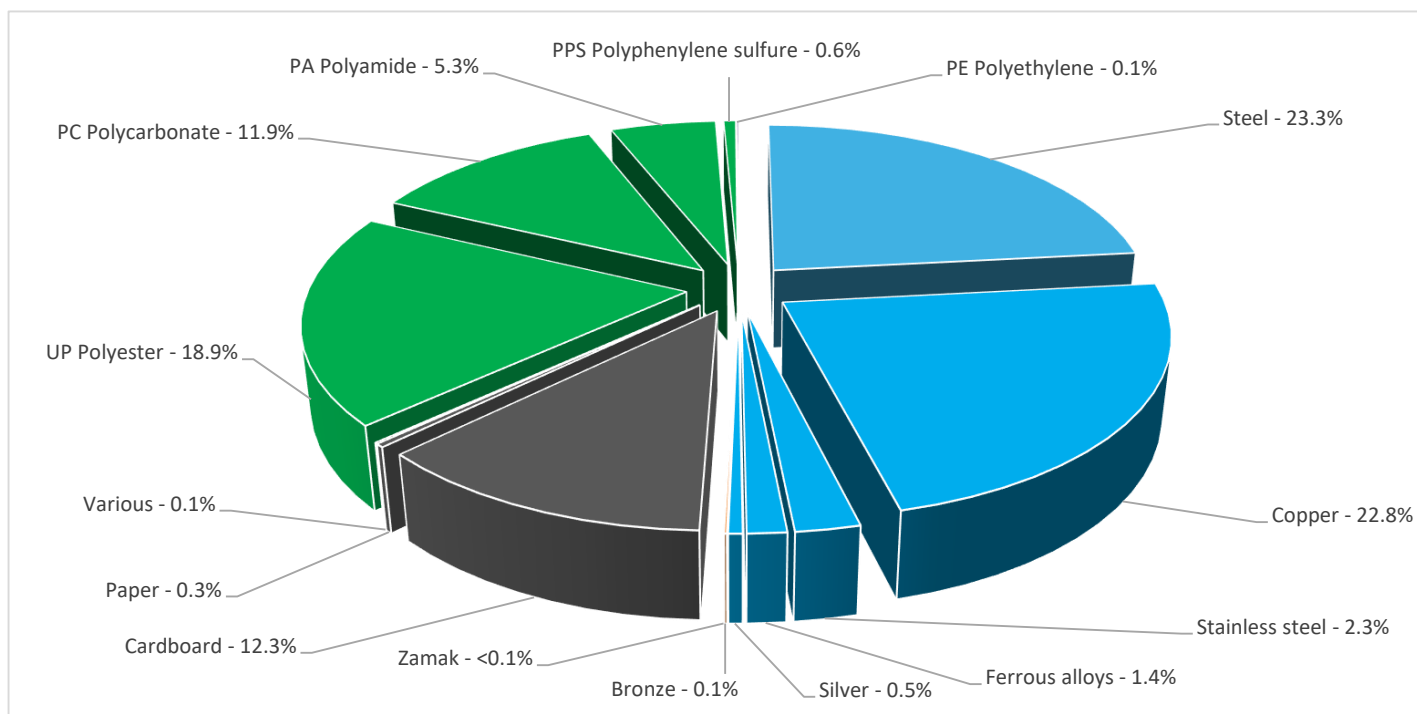
## General information

<b>Representative product</b>	Easypact Ezc630N circuit breaker, TMD, 600A ,3 poles 3d - Ezc630N3600N
<b>Description of the product</b>	EasyPact Ezc630N is a 3 poles fixed circuit breaker designed for the protection of low voltage electrical installations. The breaking capacity (Icu) is 36kA rms at 415VAC 50/60Hz. The operational voltage is 440VAC 50/60Hz or 250VDC. The rating of the thermal-magnetic trip unit is 600A. The trip unit provides fixed overload and instantaneous protections. This 3 poles version (140mm x 255mm x 110mm) comes with a variety of optional functions and accessories.
<b>Functional unit</b>	Protect during 20 years the installation against overloads and short-circuits in circuit with assigned voltage 440V and rated current 600A. This protection is ensured in accordance with the following parameters: - Number of poles 3p - Rated breaking capacity 36kA - Tripping curve long time, short time and instantaneous protections



## Constituent materials

<b>Reference product mass</b>	5525 g including the product, its packaging and additional elements and accessories
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Plastics	36.8%
Metals	50.4%
Others	12.8%



## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the 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>

## Additional environmental information

The Easypact Ezc630N circuit breaker, TMD, 600A ,3 poles 3d presents the following relevant environmental aspects

<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 725 g, consisting of Paper (2%), cardboard (97%), PE (1%) Product distribution optimised by setting up local distribution centres
<b>Installation</b>	Ezc630N3600N 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 FR 17 (9.5g) 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>52%</b> Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

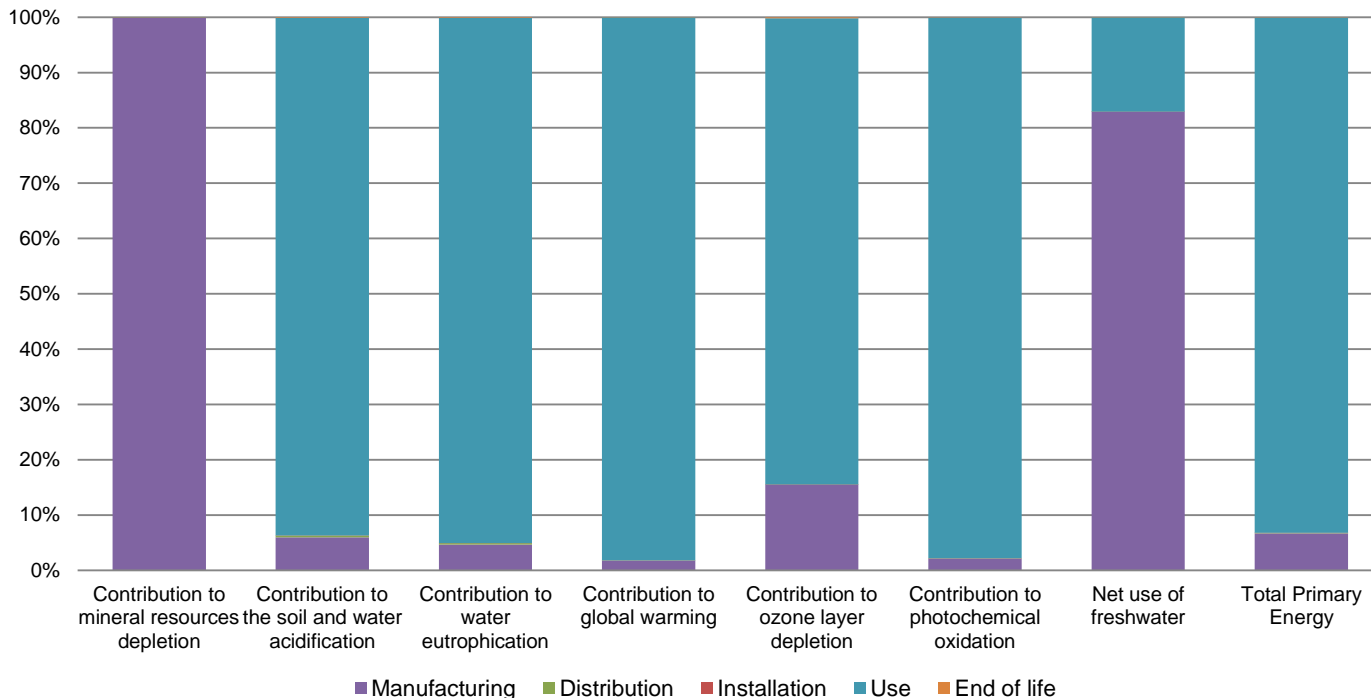
## Environmental impacts

<b>Reference life time</b>	20 years			
<b>Product category</b>	Circuit-breakers			
<b>Installation elements</b>	Ezc630N3600N does not require any special components			
<b>Use scenario</b>	Load rate: 50% of In Use time rate: 30% of RLT			
<b>Geographical representativeness</b>	Thailand			
<b>Technological representativeness</b>	EasyPact Ezc630N is a 3 poles fixed circuit breaker designed for the protection of low voltage electrical installations. The breaking capacity (Icu) is 36kA rms at 415VAC 50/60Hz. The operational voltage is 440VAC 50/60Hz or 250VDC. The rating of the thermal-magnetic trip unit is 600A. The trip unit provides fixed overload and instantaneous protections. This 3 poles version (140mm x 255mm x 110mm) comes with a variety of optional functions and accessories.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Thailand	Electricity mix; AC; consumption mix, at consumer; 220V; TH	Electricity mix; AC; consumption mix, at consumer; 220V; TH	Electricity mix; AC; consumption mix, at consumer; 220V; TH

### Compulsory indicators

### Easypact Ezc630N circuit breaker, TMD, 600A ,3 poles 3d - Ezc630N3600N

Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.14E-02	2.14E-02	0*	0*	8.76E-06	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	1.08E+00	6.45E-02	3.25E-03	1.64E-04	1.01E+00	1.48E-03
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	2.81E-01	1.30E-02	7.50E-04	4.08E-05	2.66E-01	3.80E-04
Contribution to global warming	kg CO <sub>2</sub> eq	1.50E+03	2.62E+01	7.13E-01	0*	1.47E+03	6.19E-01
Contribution to ozone layer depletion	kg CFC11 eq	2.11E-05	3.28E-06	0*	0*	1.78E-05	3.41E-08
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	3.13E-01	6.62E-03	2.32E-04	0*	3.06E-01	1.57E-04
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	5.08E+00	4.22E+00	0*	0*	8.67E-01	6.26E-04
Total Primary Energy	MJ	1.07E+04	7.14E+02	1.01E+01	0*	9.93E+03	7.32E+00



Optional indicators		Easypact EZC630N circuit breaker, TMD, 600A ,3 poles 3d - EZC630N3600N					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	8.99E+03	3.34E+02	1.00E+01	0*	8.64E+03	5.89E+00
Contribution to air pollution	m³	8.43E+04	9.96E+03	3.03E+01	0*	7.42E+04	5.24E+01
Contribution to water pollution	m³	3.39E+04	4.94E+03	1.17E+02	5.96E+00	2.88E+04	5.93E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.13E+00	1.13E+00	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	5.15E+02	4.88E+01	0*	0*	4.66E+02	0*
Total use of non-renewable primary energy resources	MJ	1.01E+04	6.65E+02	1.01E+01	0*	9.46E+03	7.32E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.12E+02	4.58E+01	0*	0*	4.66E+02	0*
Use of renewable primary energy resources used as raw material	MJ	3.00E+00	3.00E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.01E+04	6.03E+02	1.01E+01	0*	9.46E+03	7.32E+00
Use of non renewable primary energy resources used as raw material	MJ	6.25E+01	6.25E+01	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	2.95E+02	2.63E+02	0*	0*	2.46E+01	7.44E+00
Non hazardous waste disposed	kg	1.03E+02	9.71E+00	2.53E-02	0*	9.35E+01	2.24E-02
Radioactive waste disposed	kg	1.71E-02	5.16E-03	1.80E-05	0*	1.19E-02	3.55E-05
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.75E+00	4.56E-01	0*	7.19E-01	0*	2.58E+00
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4.90E-02	0*	0*	0*	0*	4.90E-02
Exported Energy	MJ	2.28E-03	2.12E-04	0*	2.07E-03	0*	0*

\* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.9.4, database version 2022-01 in compliance with ISO14044.

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

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 number	ENVPEP2211025_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	11/2022	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>

*Independent verification of the declaration and data*

Internal            X            External

*The elements of the present PEP cannot be compared with elements from another program.*

*Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »*

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