

# Product Environmental Profile

Plug-in kit, ComPact NSX 400/630, 4 poles





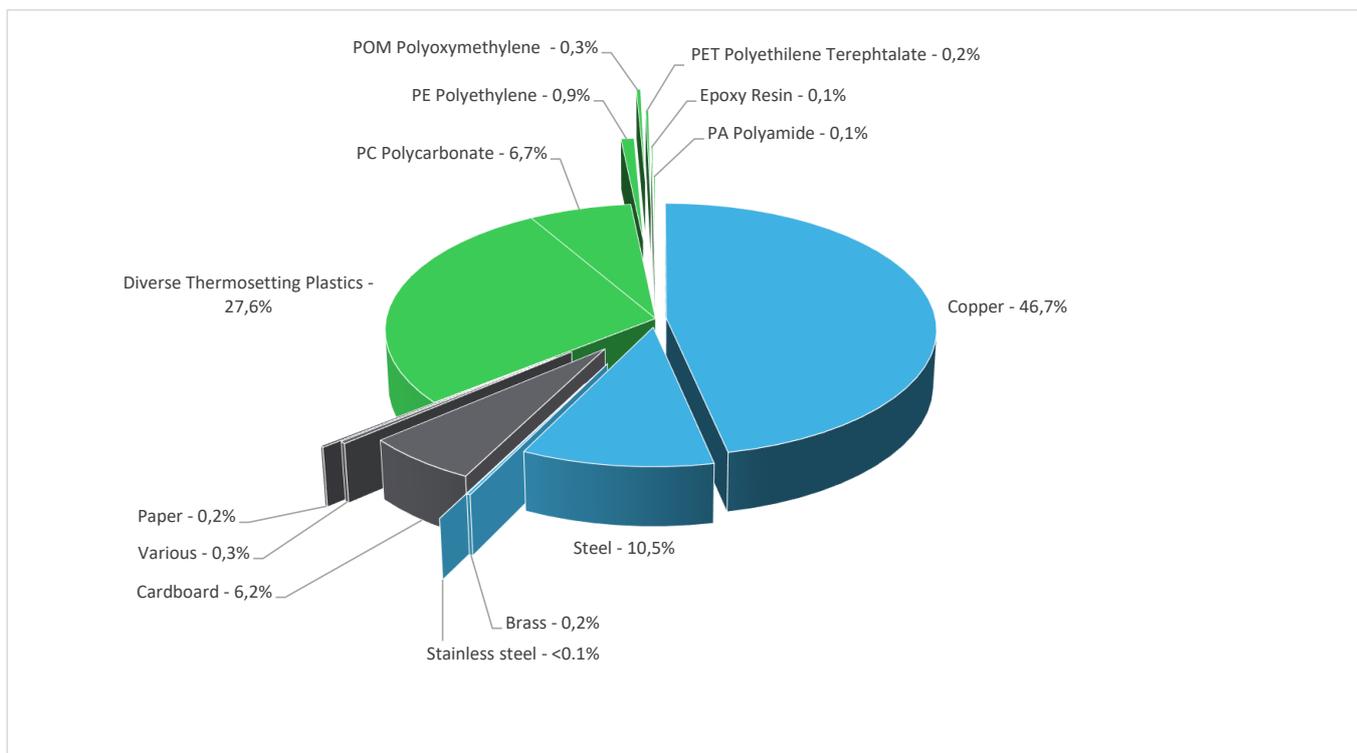
## General information

Reference product	Plug-in kit, ComPact NSX 400/630, 4 poles - LV432539
Description of the product	This is a plug-in kit for 4 poles ComPact NSX 400/630 fixed circuit breakers. A plug-in configuration is made by adding a plug-in kit to a fixed ComPact NSX device. This kit includes a plug-in base (LV432517), 4 power connections (LV432518), 2 short terminal shields (LV432592) and a safety trip interlock (LV432520). A plug-in configuration allows to install or extract rapidly and easily the circuit breaker from its base. This operation can be done without connecting or disconnecting the power circuit.
Functional unit	To allow rapid and easy installation or extraction of a ComPact NSX 400-630A circuit breaker for 20 years. Nominal current for this analysis is 630A.  The product offers three positions, with transfer from one to the other after mechanical unlocking: connected, disconnected and removed.



## Constituent materials

Reference product mass	4911 g	including the product, its packaging and additional elements and accessories
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Metals	57,4%
Plastics	35,9%
Others	6,7%



## Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website  
<https://www.se.com/ww/en/work/support/green-premium/>



## Additional environmental information

End Of Life	Recyclability potential:	61%	Recyclability rate has been calculated based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).
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## Environmental impacts

Reference service life time	20 years			
Product category	Other equipments - Passive product - non-continuous operation			
Installation elements	No special components needed during the installation phase. The disposal of the packaging materials is accounted for during this phase (including transport to disposal).			
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT			
Technological representativeness	The modules of technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are similar and representative of the actual type of technologies used to make the product.			
Geographical representativeness	Europe			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

Mandatory Indicators			Plug-in kit, ComPact NSX 400/630, 4 poles - LV432539					Loads and Benefits [D]
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	
Contribution to climate change	kg CO2 eq	3,49E+02	2,60E+01	7,86E-01	5,99E-01	3,15E+02	7,18E+00	-7,89E+00
Contribution to climate change-fossil	kg CO2 eq	3,48E+02	2,53E+01	7,86E-01	5,73E-01	3,14E+02	6,69E+00	-7,42E+00
Contribution to climate change-biogenic	kg CO2 eq	1,60E+00	6,62E-01	0*	2,65E-02	4,20E-01	4,90E-01	-4,73E-01
Contribution to climate change-land use and land use change	kg CO2 eq	8,16E-06	0*	0*	0*	0*	8,16E-06	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	8,27E-06	6,59E-06	1,20E-09	3,95E-08	1,35E-06	2,89E-07	-1,91E-06
Contribution to acidification	mol H+ eq	2,43E+00	5,53E-01	5,24E-03	2,39E-03	1,80E+00	7,07E-02	-4,10E-01
Contribution to eutrophication, freshwater	kg (PO4) <sup>3-</sup> eq	1,83E-02	2,53E-05	0*	4,31E-06	8,62E-04	1,74E-02	-1,28E-05
Contribution to eutrophication marine	kg N eq	2,43E-01	2,53E-02	2,47E-03	6,35E-04	2,04E-01	1,09E-02	-7,41E-03
Contribution to eutrophication, terrestrial	mol N eq	3,52E+00	2,82E-01	2,71E-02	4,82E-03	3,07E+00	1,35E-01	-8,61E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	8,21E-01	1,25E-01	6,87E-03	1,29E-03	6,55E-01	3,30E-02	-5,02E-02
Contribution to resource use, minerals and metals	kg Sb eq	6,26E-03	5,75E-03	0*	0*	2,28E-05	4,89E-04	-3,80E-03
Contribution to resource use, fossils	MJ	8,60E+03	3,88E+02	1,09E+01	6,25E+00	8,02E+03	1,71E+02	-1,37E+02
Contribution to water use	m3 eq	4,98E+01	2,50E+01	0*	2,55E-01	1,11E+01	1,34E+01	-1,97E+01

Additional indicators for the French regulation are available as well

Inventory flows Indicators			Plug-in kit, ComPact NSX 400/630, 4 poles - LV432539					Loads and Benefits
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,57E+03	1,36E+01	0*	4,46E-01	1,54E+03	1,17E+01	-9,10E+00
Contribution to use of renewable primary energy resources used as raw material	MJ	2,10E+00	2,10E+00	0*	0*	0*	0*	-1,92E+00
Contribution to total use of renewable primary energy resources	MJ	1,57E+03	1,57E+01	0*	4,46E-01	1,54E+03	1,17E+01	-1,10E+01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	8,56E+03	3,46E+02	1,09E+01	6,25E+00	8,02E+03	1,71E+02	-1,37E+02
Contribution to use of non renewable primary energy resources used as raw material	MJ	4,22E+01	4,22E+01	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	8,60E+03	3,88E+02	1,09E+01	6,25E+00	8,02E+03	1,71E+02	-1,37E+02
Contribution to use of secondary material	kg	2,48E-01	2,48E-01	0*	0*	0*	0*	0,00E+00
Contribution to use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to net use of freshwater	m³	1,16E+00	5,82E-01	0*	5,93E-03	2,59E-01	3,12E-01	-4,60E-01
Contribution to hazardous waste disposed	kg	3,90E+02	3,79E+02	0*	0*	5,88E+00	4,87E+00	-3,41E+02
Contribution to non hazardous waste disposed	kg	5,97E+01	1,20E+01	2,75E-02	1,94E+00	4,53E+01	4,29E-01	-4,87E+00
Contribution to radioactive waste disposed	kg	1,58E-02	6,02E-03	1,96E-05	2,61E-04	9,48E-03	4,81E-05	-1,32E-03
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	3,23E+00	0*	0*	3,28E-01	0*	2,90E+00	0,00E+00
Contribution to materials for energy recovery	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to exported energy	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to biogenic carbon content of the product	kg de C	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0,00E+00	0*	0*	0*	0*	0*	0,00E+00

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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044 and the EF 3.0 method of calculation.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

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.

