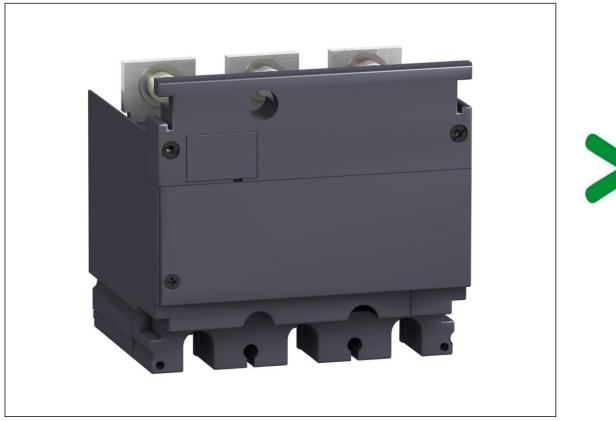
## **Product Environmental Profile**

Current transformer module with voltage output, ComPact NSX400/630, 400A rating, 3 poles

Representative of all current transformer module with voltage output from 400 to 630A





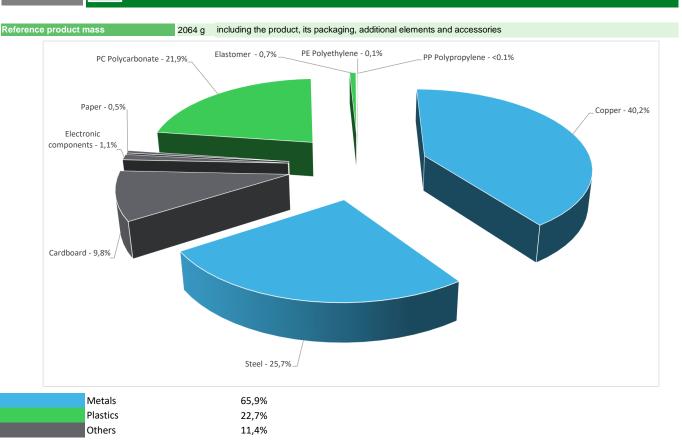






Reference product	Current transformer module with voltage output, ComPact NSX400/630, 400A rating, 3 poles - LV432653
Description of the product	This is an additional current transformer module of 400A rating with voltage measurement output for 3 poles ComPact NSX 400/630 devices. This module enables direct connection of a digital measurement device such as a Power Meter PM700 or PM800. The module is installed directly on the downstream circuit breaker power terminals. The current rating is 400A and the operational voltage is 530 VAC 50/60 Hz. The current at the secondary winding is 5A. The power consumption is 2VA. The class accuracy is 0.5. There is a class II insulation level between the front face and the power circuits. The protection degree is IP40.
Description of the range	The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.  The products of the range are: All current transformer module with voltage output from 400 to 630A
Functional unit	To transform a 400A primary current in a 5A secondary current to facilitate the use of measuring instruments, while protecting them against the penetration of solid objects and liquids (IP40), and with a degree of protection against external mechanical impacts (IK04) in accordance with the standard IEC 62262 according to the appropriate use scenario during the reference service life of the product of 20 years
Specifications are:	Current transformer ratio: 400/5A IP = IP40 Degree of protection against ingress of solid foreign objects and water with harmful effects in accordance with the standard IEC 60529 IK = IK04 Degree of protection against external mechanical impacts in accordance with the standard IEC 62262 Voltage range: 530VAC Low voltage Current type: Alternative current

## Constituent materials



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website <a href="https://www.se.com">https://www.se.com</a>



## (19) Additional environmental information

End Of Life

Recyclability potential:

73%

The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).

## **Environmental impacts**

Reference service life time	20 years									
Product category	Other equipments - Passive product - non-continuous operation									
Life cycle of the product	The manufacturing, the distribution, the installatio	n, the use and the end of life w	ere taken into consideration in t	his study						
Electricity consumtion	The electricity consumed during manufacturing pagenerates a negligable consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligable consumption								
Installation elements	No special components needed									
Use scenario	Load rate = 50% Ic Use rate = 30% RLT									
Time representativeness	The collected data are representative of the year 2025									
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and représentaive of the actual type of technologies used to make the product.									
Geographical	Final assembly site Use phase End-of-life									
representativeness	Milan, Italy	Milan, Italy United Kingdom United Kingdom								
	[A1 - A3]	[A5]	[B6]	[C1 - C4]						
Energy model used	Electricity Mix; Low voltage; 2020; Italy, IT	No energy used	Electricity Mix; Low voltage; 2020; United Kingdom, GB	Global, European and French datasets are used.						

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.se.com/contact

Mandatory Indicators		Current trar	sformer module	with voltage ou	tput, ComPact N	NSX400/630, 400A	rating, 3 poles -	LV432653
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to climate change	kg CO2 eq	4,01E+01	8,64E+00	4,01E-01	2,28E-01	2,64E+01	4,34E+00	-3,82E+00
Contribution to climate change-fossil	kg CO2 eq	3,86E+01	8,95E+00	4,01E-01	2,17E-01	2,49E+01	4,18E+00	-3,67E+00
Contribution to climate change-biogenic	kg CO2 eq	1,44E+00	0*	0*	1,07E-02	1,57E+00	1,67E-01	-1,45E-01
Contribution to climate change-land use and land use change	je kg CO2 eq	6,33E-04	6,30E-04	0*	0*	0*	2,77E-06	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	1,03E-06	8,54E-07	6,16E-10	2,94E-09	8,84E-08	8,73E-08	-8,20E-07
Contribution to acidification	mol H+ eq	3,19E-01	1,84E-01	2,54E-03	6,65E-04	1,05E-01	2,60E-02	-1,44E-01
Contribution to eutrophication, freshwater	kg P eq	5,57E-03	2,82E-04	0*	5,20E-06	6,54E-05	5,21E-03	-5,66E-06
Contribution to eutrophication marine	kg N eq	2,72E-02	8,96E-03	1,19E-03	2,89E-04	1,32E-02	3,63E-03	-3,14E-03
Contribution to eutrophication, terrestrial	mol N eq	5,11E-01	9,90E-02	1,31E-02	2,01E-03	3,51E-01	4,59E-02	-3,67E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	9,21E-02	3,91E-02	3,30E-03	4,61E-04	3,71E-02	1,21E-02	-1,96E-02
Contribution to resource use, minerals and metals	kg Sb eq	1,65E-03	1,47E-03	0*	0*	9,52E-06	1,69E-04	-1,73E-03
Contribution to resource use, fossils	MJ	9,71E+02	1,98E+02	5,61E+00	2,25E+00	6,33E+02	1,32E+02	-7,68E+01
Contribution to water use	m3 eq	1,63E+01	9,50E+00	0*	1,76E-02	1,67E+00	5,09E+00	-7,34E+00

Inventory flows Indicators	sformer module	with voltage ou	tput, ComPact I	NSX400/630, 400A	rating, 3 poles -	· LV432653		
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,91E+02	7,69E+00	0*	2,95E-01	2,79E+02	4,07E+00	-3,73E+00
Contribution to use of renewable primary energy resources used as raw material	MJ	4,71E+00	4,71E+00	0*	0*	0*	0*	-2,43E-01
Contribution to total use of renewable primary energy resources	MJ	2,95E+02	1,24E+01	0*	2,95E-01	2,79E+02	4,07E+00	-3,97E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9,55E+02	1,82E+02	5,61E+00	2,25E+00	6,33E+02	1,32E+02	-7,68E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	1,59E+01	1,59E+01	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	9,71E+02	1,98E+02	5,61E+00	2,25E+00	6,33E+02	1,32E+02	-7,68E+01
Contribution to use of secondary material	kg	1,81E-01	1,81E-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	3,80E-01	2,21E-01	0*	4,11E-04	3,94E-02	1,18E-01	-1,71E-01
Contribution to hazardous waste disposed	kg	1,28E+02	1,27E+02	0*	0*	1,04E+00	2,28E-02	-1,50E+02
Contribution to non hazardous waste disposed	kg	8,39E+00	4,50E+00	1,41E-02	9,79E-02	3,26E+00	5,26E-01	-1,79E+00
Contribution to radioactive waste disposed	kg	4,36E-03	2,80E-03	1,00E-05	1,20E-05	1,51E-03	2,67E-05	-8,89E-04
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	1,40E+00	6,61E-02	0*	5,72E-04	0*	1,34E+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	2,31E-02	6,80E-04	0*	9,25E-03	0*	1,32E-02	0,00E+00

 $<sup>^{\</sup>star}$  represents less than 0.01% of the total life cycle of the reference flow

Contribution to biogenic carbon content of the product kg of C 0,00E+00 Contribution to biogenic carbon content of the associated packaging kg of C 6,04E-02

<sup>\*</sup> The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		Current tran	sformer r	nodule with v	oltage out	tput, Co	mPact N	SX400/630, 400	A rating, 3 poles - LV4326
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	2,64E+01	0*	0*	0*	0*	0*	2,64E+01	0*
Contribution to climate change-fossil	kg CO2 eq	2,49E+01	0*	0*	0*	0*	0*	2,49E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	1,57E+00	0*	0*	0*	0*	0*	1,57E+00	0*
Contribution to climate change-land use and land use change-	ge kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	8,84E-08	0*	0*	0*	0*	0*	8,84E-08	0*
Contribution to acidification	mol H+ eq	1,05E-01	0*	0*	0*	0*	0*	1,05E-01	0*
Contribution to eutrophication, freshwater	kg P eq	6,54E-05	0*	0*	0*	0*	0*	6,54E-05	0*
Contribution to eutrophication marine	kg N eq	1,32E-02	0*	0*	0*	0*	0*	1,32E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	3,51E-01	0*	0*	0*	0*	0*	3,51E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	3,71E-02	0*	0*	0*	0*	0*	3,71E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	9,52E-06	0*	0*	0*	0*	0*	9,52E-06	0*
Contribution to resource use, fossils	MJ	6,33E+02	0*	0*	0*	0*	0*	6,33E+02	0*
Contribution to water use	m3 eq	1,67E+00	0*	0*	0*	0*	0*	1,67E+00	0*

Inventory flows Indicators		Current tran	sformer	module with v	oltage out	put, Co	mPact NS	X400/630, 400	A rating, 3 poles - LV4326
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,79E+02	0*	0*	0*	0*	0*	2,79E+02	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	2,79E+02	0*	0*	0*	0*	0*	2,79E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6,33E+02	0*	0*	0*	0*	0*	6,33E+02	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	6,33E+02	0*	0*	0*	0*	0*	6,33E+02	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	3,94E-02	0*	0*	0*	0*	0*	3,94E-02	0*
Contribution to hazardous waste disposed	kg	1,04E+00	0*	0*	0*	0*	0*	1,04E+00	0*
Contribution to non hazardous waste disposed	kg	3,26E+00	0*	0*	0*	0*	0*	3,26E+00	0*
Contribution to radioactive waste disposed	kg	1,51E-03	0*	0*	0*	0*	0*	1,51E-03	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

<sup>\*</sup> represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version v6.2.2, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

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 :	SCHN-01354-V01.01-EN	Drafting rules	PEP-PCR-ed4-2021 09 06					
		Supplemented by	PSR-0005-ed3-2023 06 06					
Verifier accreditation N°	VH08	Information and reference documents	www.pep-ecopassport.org					
Date of issue	01-2025	Validity period	5 years					
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006								
Internal	External X							
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)								

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)

PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022

The components of the present PEP may not be compared with components from any other program.

Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"



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