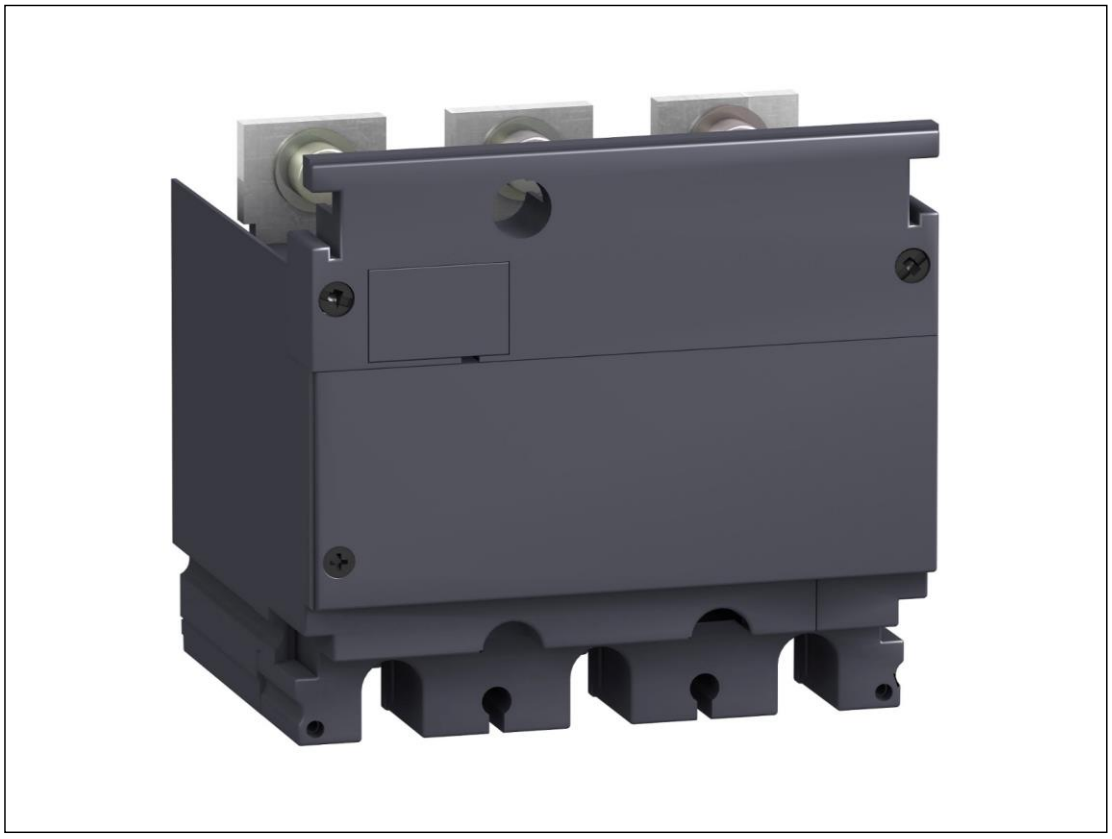
Product Environmental Profile

Current transformer module with voltage output, ComPact NSX250, 250A rating, 3 poles

Representative of all current transformer module with voltage output from 125 to 250A

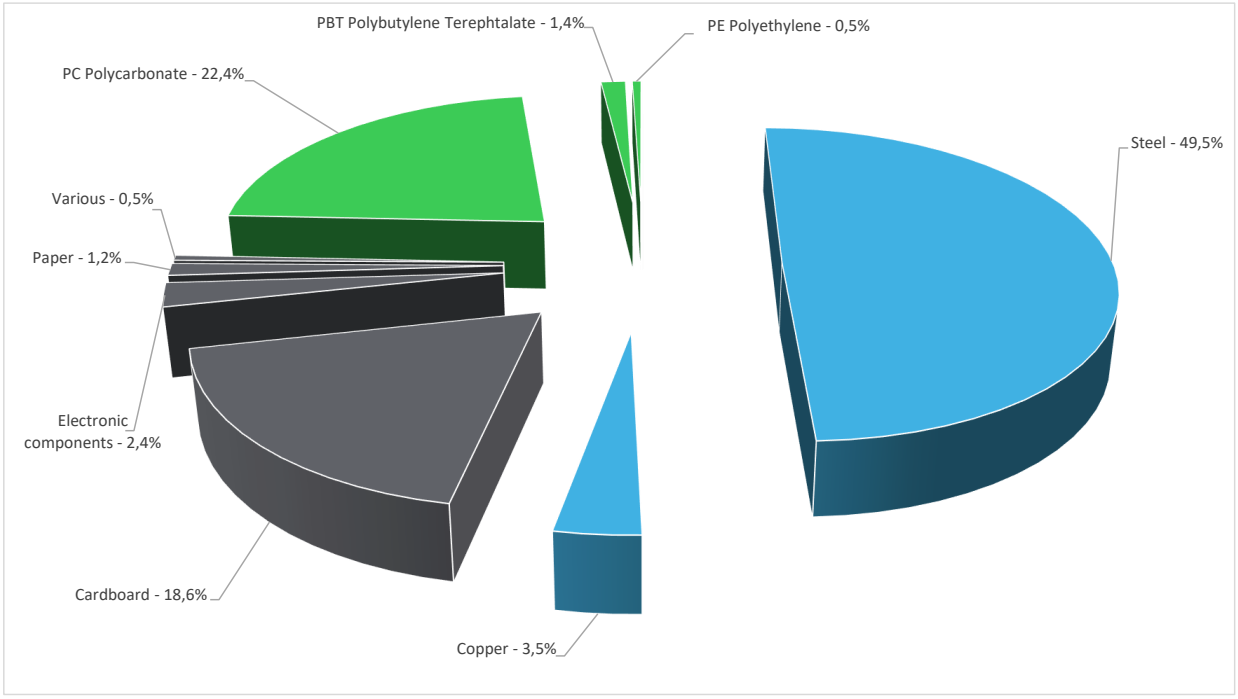


General information

Reference product	Current transformer module with voltage output, ComPact NSX250, 250A rating, 3 poles - LV431569
Description of the product	This is an additional current transformer module of 250A rating with voltage measurement output for 3 poles ComPact NSX250 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 250A and the operational voltage is 530 VAC 50/60 Hz. The current at the secondary winding is 5A. The power consumption is 1.1VA. The class accuracy is 1. 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.All current transformer module with voltage output from 125 to 250A The products of the range are:
Functional unit	To transform a 250A 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: 250/5A 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 Curent type : Alternative current

Constituent materials

Reference product mass	951 g	including the product, its packaging, additional elements and accessories



Metals	53,0%
Plastics	24,3%
Others	22,7%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
https://www.se.com

Additional environmental information

End Of Life	Recyclability potential:	**65%**	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 installation, the use and the end of life were taken into consideration in this study			
Electricity consumtion	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 representativeness	**Final assembly site**	**Use phase**		**End-of-life**
	Milan, Italy	United Kingdom		United Kingdom
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	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 transformer module with voltage output, ComPact NSX250, 250A rating, 3 poles - LV431569**						
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	2,12E+01	4,26E+00	1,85E-01	2,03E-01	1,45E+01	2,06E+00	-1,83E+00
Contribution to climate change-fossil	kg CO2 eq	2,07E+01	4,70E+00	1,85E-01	1,93E-01	1,36E+01	2,06E+00	-1,86E+00
Contribution to climate change-biogenic	kg CO2 eq	4,31E-01	0*	0*	9,54E-03	8,58E-01	6,67E-03	3,30E-02
Contribution to climate change-land use and land use change	kg CO2 eq	2,70E-04	2,70E-04	0*	0*	0*	1,11E-07	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	2,44E-07	1,89E-07	2,84E-10	2,61E-09	4,84E-08	4,23E-09	-2,82E-07
Contribution to acidification	mol H+ eq	9,06E-02	2,51E-02	1,17E-03	5,91E-04	5,76E-02	6,05E-03	-1,59E-02
Contribution to eutrophication, freshwater	kg P eq	2,72E-04	2,18E-05	6,94E-08	4,62E-06	3,58E-05	2,10E-04	-3,36E-06
Contribution to eutrophication marine	kg N eq	1,34E-02	4,05E-03	5,50E-04	2,56E-04	7,20E-03	1,30E-03	-1,16E-03
Contribution to eutrophication, terrestrial	mol N eq	2,57E-01	4,32E-02	6,03E-03	1,79E-03	1,92E-01	1,45E-02	-1,33E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	4,10E-02	1,42E-02	1,52E-03	4,09E-04	2,03E-02	4,57E-03	-4,86E-03
Contribution to resource use, minerals and metals	kg Sb eq	1,65E-04	1,53E-04	0*	0*	5,21E-06	6,81E-06	-6,09E-04
Contribution to resource use, fossils	MJ	5,68E+02	1,17E+02	2,58E+00	2,00E+00	3,46E+02	9,97E+01	-4,30E+01
Contribution to water use	m3 eq	3,15E+00	1,49E+00	7,03E-04	1,57E-02	9,15E-01	7,29E-01	-1,03E+00

Inventory flows Indicators		Current transformer module with voltage output, ComPact NSX250, 250A rating, 3 poles - LV431569						
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	1,54E+02	1,40E+00	0*	2,62E-01	1,52E+02	1,69E-01	-3,37E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	3,83E+00	3,83E+00	0*	0*	0*	0*	-5,51E-01
Contribution to total use of renewable primary energy resources	MJ	1,58E+02	5,23E+00	0*	2,62E-01	1,52E+02	1,69E-01	-8,88E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5,60E+02	1,09E+02	2,58E+00	2,00E+00	3,46E+02	9,97E+01	-4,30E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	8,26E+00	8,26E+00	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	5,68E+02	1,17E+02	2,58E+00	2,00E+00	3,46E+02	9,97E+01	-4,30E+01
Contribution to use of secondary material	kg	1,47E-01	1,47E-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	m^3	7,36E-02	3,47E-02	1,64E-05	3,65E-04	2,16E-02	1,70E-02	-2,39E-02
Contribution to hazardous waste disposed	kg	8,67E+00	8,07E+00	0*	5,02E-03	5,69E-01	2,26E-02	-4,86E+01
Contribution to non hazardous waste disposed	kg	4,23E+00	2,09E+00	6,50E-03	8,70E-02	1,78E+00	2,62E-01	-1,49E+00
Contribution to radioactive waste disposed	kg	2,14E-03	1,29E-03	4,63E-06	1,07E-05	8,27E-04	1,24E-05	-6,72E-04
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	5,22E-01	2,69E-02	0*	5,72E-04	0*	4,95E-01	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	1,34E-02	2,73E-04	0*	8,21E-03	0*	4,89E-03	0,00E+00

* 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	5,38E-02

* 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 transformer module with voltage output, ComPact NSX250, 250A rating, 3 poles - LV431569							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1,45E+01	0*	0*	0*	0*	0*	1,45E+01	0*
Contribution to climate change-fossil	kg CO2 eq	1,36E+01	0*	0*	0*	0*	0*	1,36E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	8,58E-01	0*	0*	0*	0*	0*	8,58E-01	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	4,84E-08	0*	0*	0*	0*	0*	4,84E-08	0*
Contribution to acidification	mol H+ eq	5,76E-02	0*	0*	0*	0*	0*	5,76E-02	0*
Contribution to eutrophication, freshwater	kg P eq	3,58E-05	0*	0*	0*	0*	0*	3,58E-05	0*
Contribution to eutrophication marine	kg N eq	7,20E-03	0*	0*	0*	0*	0*	7,20E-03	0*
Contribution to eutrophication, terrestrial	mol N eq	1,92E-01	0*	0*	0*	0*	0*	1,92E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2,03E-02	0*	0*	0*	0*	0*	2,03E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	5,21E-06	0*	0*	0*	0*	0*	5,21E-06	0*
Contribution to resource use, fossils	MJ	3,46E+02	0*	0*	0*	0*	0*	3,46E+02	0*
Contribution to water use	m3 eq	9,15E-01	0*	0*	0*	0*	0*	9,15E-01	0*

Inventory flows Indicators		Current transformer module with voltage output, ComPact NSX250, 250A rating, 3 poles - LV431569							
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	1,52E+02	0*	0*	0*	0*	0*	1,52E+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	1,52E+02	0*	0*	0*	0*	0*	1,52E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3,46E+02	0*	0*	0*	0*	0*	3,46E+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	3,46E+02	0*	0*	0*	0*	0*	3,46E+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	m^3	2,16E-02	0*	0*	0*	0*	0*	2,16E-02	0*
Contribution to hazardous waste disposed	kg	5,69E-01	0*	0*	0*	0*	0*	5,69E-01	0*
Contribution to non hazardous waste disposed	kg	1,78E+00	0*	0*	0*	0*	0*	1,78E+00	0*
Contribution to radioactive waste disposed	kg	8,27E-04	0*	0*	0*	0*	0*	8,27E-04	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*

** 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-01353-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)			
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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