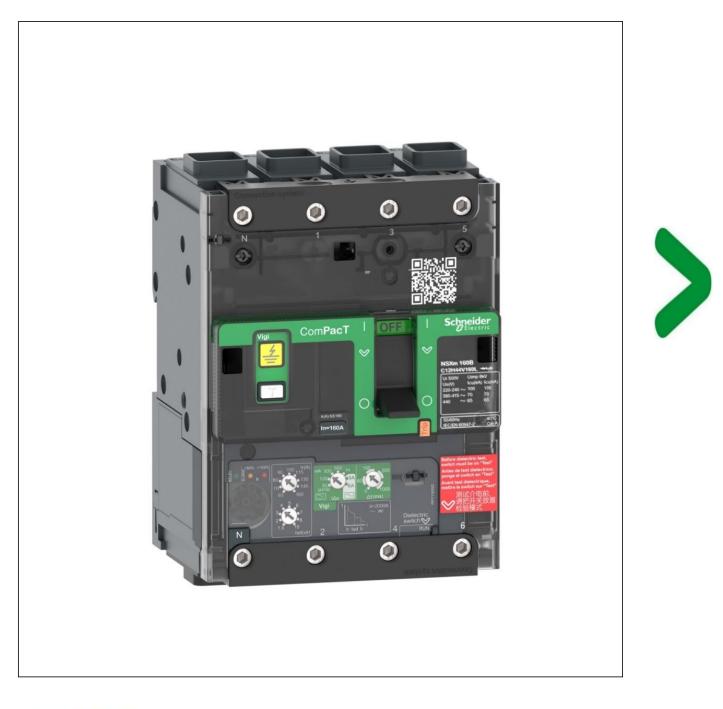
# **Product Environmental Profile**

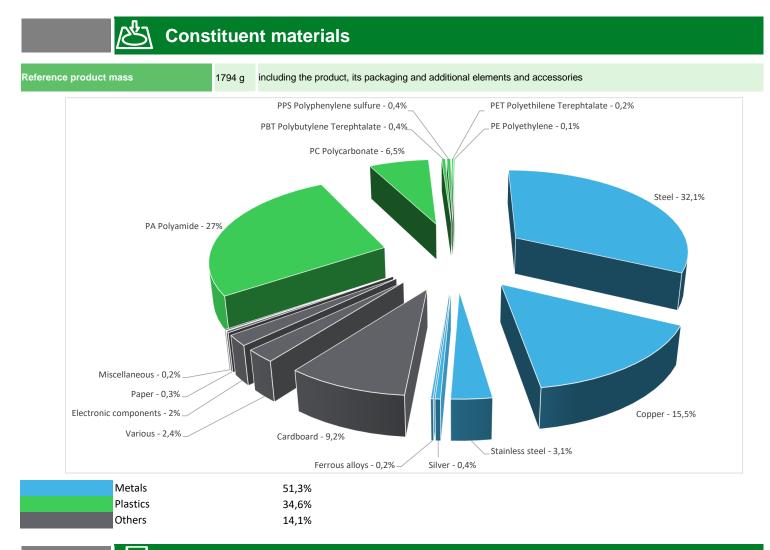
### Circuit breaker, ComPacT NSXm 160F, 36kA/415VAC, 4 poles, MicroLogic 4.1 trip unit 160A, EverLink lugs







General information							
Reference product	Circuit breaker, ComPacT NSXm 160F, 36kA/415VAC, 4 poles, MicroLogic 4.1 trip unit 160A, EverLink lugs - C12F44V160L						
Description of the product	The ComPacT NSXm 160F 4P circuit breaker equipped with a MicroLogic 4.1 electronic trip unit is designed to provide pro to industrial and commercial electrical distribution systems (with assigned voltage up to 440VAC and rated current up to 16 against overloads and short-circuits. This electronic trip unit also provides an earth leakage protection to detect and react to ground faults.						
Functional unit	Protect during 20 years the installation against overloads and short-circuits and people and premises at risk of fire or explosion against insulation defects in a circuit with assigned voltage up to 440V AC and rated current up to 160A. This protection is ensured in accordance with the following parameters: - Number of poles = 4P - Rated breaking capacity = F 36kA 415 V AC - Tripping curve = Adjustable [LS0IR = long time, short time (fixed delay), instantaneous, residual current] - Number of protected poles = 4D - Sensitivity = Adjustable [30mA-1A for Class A, 30mA-5A for Class AC] - Type of differential protection = Class A, Class AC - IP degree of protection = IP40 conforming to IEC 60529 - IK degree of protection = IK07 conforming to IEC 62262						



#### Substance assessment

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

# ( Additional environmental information

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End Of Life
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56%

Recyclability potential:

Recyclability rate has been calculated based on REEECY'LAB 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).

## $\mathcal{O}$ Environmental impacts

Reference service life time	20 years					
Product category	Differential circuit breaker					
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					
	[A1 - A3]	[A5]	[B6]	[C1 - C4]		
Energy model used	Electricity Mix; Production mix; Low voltage; UE-27	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		Circuit brea	ker, ComPacT NS)	(m 160F, 36kA/41	15VAC, 4 poles, N C12F44V160L	licroLogic 4.1 tr	ip unit 160A, Eve⊧	rLink lugs -
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Loads and Benefits
inpact nuclators			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	2,21E+02	1,89E+01	2,87E-01	3,18E-01	1,97E+02	4,48E+00	-3,28E+00
Contribution to climate change-fossil	kg CO2 eq	2,21E+02	1,87E+01	2,87E-01	3,04E-01	1,97E+02	4,42E+00	-3,21E+00
Contribution to climate change-biogenic	kg CO2 eq	5,42E-01	2,03E-01	0*	1,41E-02	2,63E-01	6,21E-02	-6,47E-02
Contribution to climate change-land use and land use change	kg CO2 eq	1,09E-06	1,10E-07	0*	0*	0*	9,77E-07	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	5,91E-06	4,99E-06	0*	2,11E-08	8,44E-07	4,81E-08	-5,71E-07
Contribution to acidification	mol H+ eq	1,31E+00	1,63E-01	1,91E-03	1,26E-03	1,13E+00	1,64E-02	-6,27E-02
Contribution to eutrophication, freshwater	kg (PO4)³⁻ eq	2,80E-03	1,77E-04	0*	2,30E-06	5,40E-04	2,08E-03	-5,96E-06
Contribution to eutrophication marine	kg N eq	1,50E-01	1,70E-02	9,03E-04	3,35E-04	1,28E-01	3,72E-03	-2,29E-03
Contribution to eutrophication, terrestrial	mol N eq	2,15E+00	1,81E-01	9,90E-03	2,53E-03	1,92E+00	2,99E-02	-2,62E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	4,84E-01	6,12E-02	2,51E-03	6,74E-04	4,11E-01	8,66E-03	-1,15E-02
Contribution to resource use, minerals and metals	kg Sb eq	1,17E-02	1,16E-02	0*	0*	1,43E-05	5,87E-05	-1,15E-03
Contribution to resource use, fossils	MJ	5,46E+03	2,78E+02	3,99E+00	3,31E+00	5,03E+03	1,45E+02	-6,79E+01
Contribution to water use	m3 eq	4,34E+01	1,12E+01	0*	1,36E-01	6,98E+00	2,51E+01	-3,35E+00

Additional indicators for the French regulation are available as well

Inventory flows Indicators	Circuit breaker, ComPacT NSXm 160F, 36kA/415VAC, 4 poles, MicroLogic 4.1 trip unit 160A, EverLink lugs - C12F44V160L							
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Loads and Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9,74E+02	7,52E+00	0*	2,38E-01	9,65E+02	1,51E+00	-1,03E+00
Contribution to use of renewable primary energy resources used as raw material	MJ	1,10E+00	1,10E+00	0*	0*	0*	0*	-1,01E+00
Contribution to total use of renewable primary energy esources	MJ	9,76E+02	8,62E+00	0*	2,38E-01	9,65E+02	1,51E+00	-2,03E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5,44E+03	2,59E+02	3,99E+00	3,31E+00	5,03E+03	1,45E+02	-6,79E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	1,90E+01	1,90E+01	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	5,46E+03	2,78E+02	3,99E+00	3,31E+00	5,03E+03	1,45E+02	-6,79E+01
Contribution to use of secondary material	kg	1,32E-01	1,32E-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 <sup>3</sup>	1,08E+00	2,61E-01	0*	3,16E-03	1,63E-01	6,49E-01	-7,79E-02
Contribution to hazardous waste disposed	kg	1,99E+02	1,93E+02	0*	0*	3,69E+00	1,75E+00	-9,52E+01
Contribution to non hazardous waste disposed	kg	4,07E+01	1,06E+01	1,01E-02	1,04E+00	2,84E+01	6,82E-01	-3,48E+00
Contribution to radioactive waste disposed	kg	1,09E-02	4,80E-03	7,16E-06	1,39E-04	5,94E-03	3,32E-05	-1,02E-03
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	1,42E+00	3,15E-01	0*	1,75E-01	0*	9,34E-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	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 * represents loss than 0.01% of the total life cycle of the	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.

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.

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Verifier accreditation N°	VH48	Supplemented by	PSR-0005-ed2-2016 03 29				
Date of issue	09/2023	Information and reference documents	www.pep-ecopassport.org				
		Validity period	5 years				
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010							
Internal External X							
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)							
PEP are compliant with XP C08-	PEP						
The elements of the present PEP cannot be compared with elements from another program.							
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »							

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