

Product Environmental Profile

PanelSeT SFN : Floor standing modular decarbonized steel enclosure

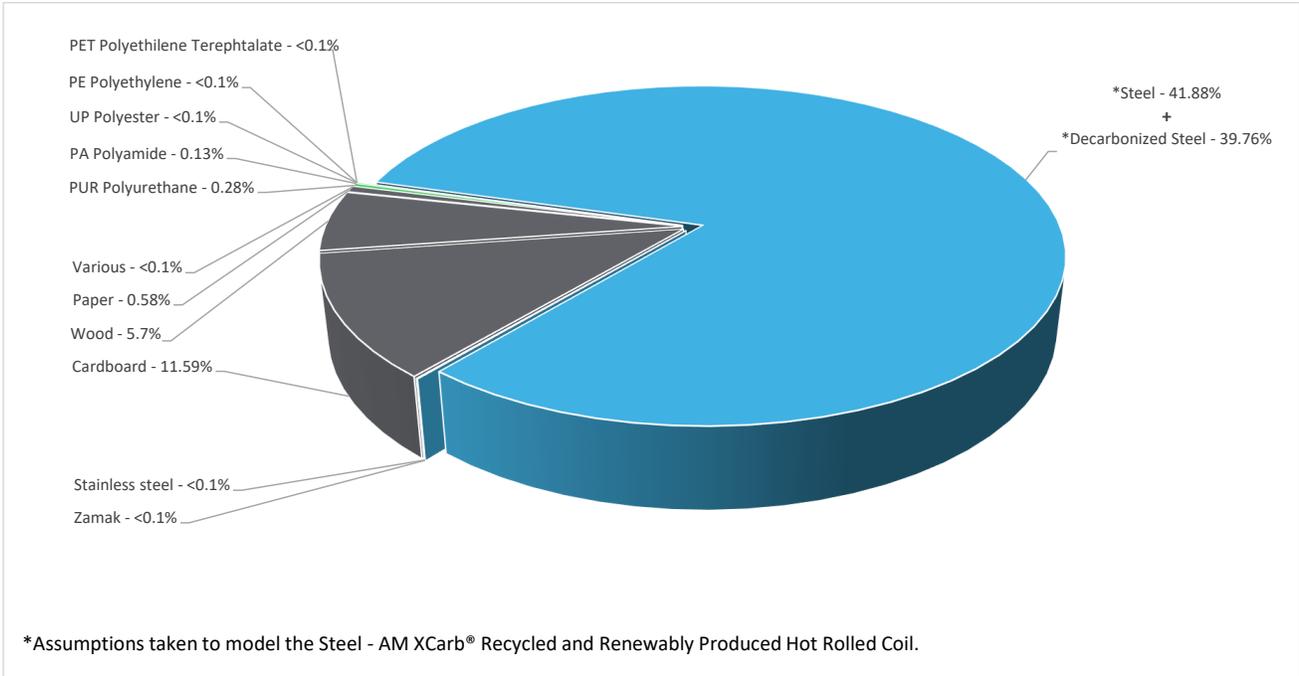


General information

Reference product	PanelSeT SFN : Floor standing modular decarbonized steel enclosure - NSYSFN20860P
Description of the product	The main purpose of the PanelSeT SFN Enclosures is to protect electrical equipment of low-voltage switchgear and control gear assemblies.
Functional unit	Protect persons during 20 years against direct contact with live parts and allow grouping monitoring, control and protection devices in a single enclosure with dimensions H2000mm x W800mm x D600mm, while protecting against mechanical impacts (IK10-IEC 62262) and the penetration of solid objects and liquids (IP55-IEC 60529). X = Total number of enclosures or cabinets = 1 In = Rated current allowed in this enclosure (A) = 2500A Voltage range = Low Voltage Current type = AC/DC Current

Constituent materials

Reference product mass	144000 g including the product, its packaging and additional elements and accessories
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Plastics	0.4%
Metals	81.7%
Others	17.9%

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:	97%	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).
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Environmental impacts

Reference service life time	20 years			
Product category	Unequipped enclosures and cabinets			
Installation elements	No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.			
Use scenario	Non applicable for unequipped enclosures and cabinets			
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 in production.			
Geographical representativeness	Europe, MiddleEast			
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 PCRred4, 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		PanelSeT SFN : Floor standing modular decarbonized steel enclosure - NSYSFN20860P						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
*Assumptions taken to model the Steel - AM XCarb® Recycled and Renewably Produced Hot Rolled Coil.			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	7.45E+02	3.62E+02	2.67E+01	3.77E+01	0*	3.19E+02	-8.21E+03
Contribution to climate change-fossil	kg CO2 eq	7.43E+02	3.57E+02	2.67E+01	4.08E+01	0*	3.19E+02	-7.97E+03
Contribution to climate change-biogenic	kg CO2 eq	1.81E+00	4.90E+00	0*	0*	0*	0*	-2.46E+02
Contribution to climate change-land use and land use change	kg CO2 eq	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.23E-05	5.72E-06	2.36E-05	2.08E-06	0*	8.53E-07	-4.36E-04
Contribution to acidification	mol H+ eq	2.86E+00	1.52E+00	1.20E-01	1.30E-01	0*	1.09E+00	-3.92E+01
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	9.46E-04	6.17E-04	3.13E-06	2.71E-04	0*	5.47E-05	-7.38E-02
Contribution to eutrophication marine	kg N eq	5.76E-01	2.88E-01	5.56E-02	3.55E-02	0*	1.96E-01	-9.31E+00
Contribution to eutrophication, terrestrial	mol N eq	6.05E+00	3.03E+00	6.02E-01	2.74E-01	0*	2.14E+00	-7.94E+01
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.01E+00	9.54E-01	1.95E-01	7.56E-02	0*	7.84E-01	-2.15E+01
Contribution to resource use, minerals and metals	kg Sb eq	3.50E-03	3.49E-03	0*	1.09E-06	0*	1.22E-05	-1.78E-01
Contribution to resource use, fossils	MJ	3.63E+04	1.19E+04	3.25E+02	3.34E+02	0*	2.37E+04	-8.05E+04
Contribution to water use	m3 eq	2.81E+02	1.44E+02	1.36E+00	1.34E+01	0*	1.22E+02	-4.75E+03

Additional indicators for the French regulation are available as well

Inventory flows Indicators		PanelSeT SFN : Floor standing modular decarbonized steel enclosure - NSYSFN20860P						
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	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	-5.49E+01	-1.12E+02	0*	0*	0*	0*	3.51E+04
Contribution to use of renewable primary energy resources used as raw material	MJ	5.06E+02	5.06E+02	0*	0*	0*	0*	-5.89E+04
Contribution to total use of renewable primary energy resources	MJ	4.52E+02	3.95E+02	0*	5.67E+01	0*	1.91E-01	-2.38E+04
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.62E+04	1.19E+04	3.25E+02	3.34E+02	0*	2.37E+04	-8.05E+04

Contribution to use of non renewable primary energy resources used as raw material	MJ	1.68E+01	1.68E+01	0*	0*	0*	0*	8.58E-03
Contribution to total use of non-renewable primary energy resources	MJ	3.63E+04	1.19E+04	3.25E+02	3.34E+02	0*	2.37E+04	-8.05E+04
Contribution to use of secondary material	kg	5.99E+01	5.99E+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	6.55E+00	3.36E+00	3.16E-02	3.12E-01	0*	2.85E+00	-1.11E+02
Contribution to hazardous waste disposed	kg	3.64E+02	2.45E+02	0*	3.71E-01	0*	1.18E+02	-1.42E+04
Contribution to non hazardous waste disposed	kg	7.08E+02	5.99E+02	0*	1.08E+02	0*	7.07E-01	-8.56E+04
Contribution to radioactive waste disposed	kg	1.25E-01	1.05E-01	5.32E-03	1.38E-02	0*	7.94E-04	-4.58E+00
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.32E+02	0*	0*	1.94E+01	0*	1.13E+02	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	5.49E+00	5.16E-01	0*	4.97E+00	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.

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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Date of issue	2023/07	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 C08-100-1 :2016 or EN 50693:2019			
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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