

Product Environmental Profile

XPSMCM Safety CPU module w/communication



Schneider
Electric

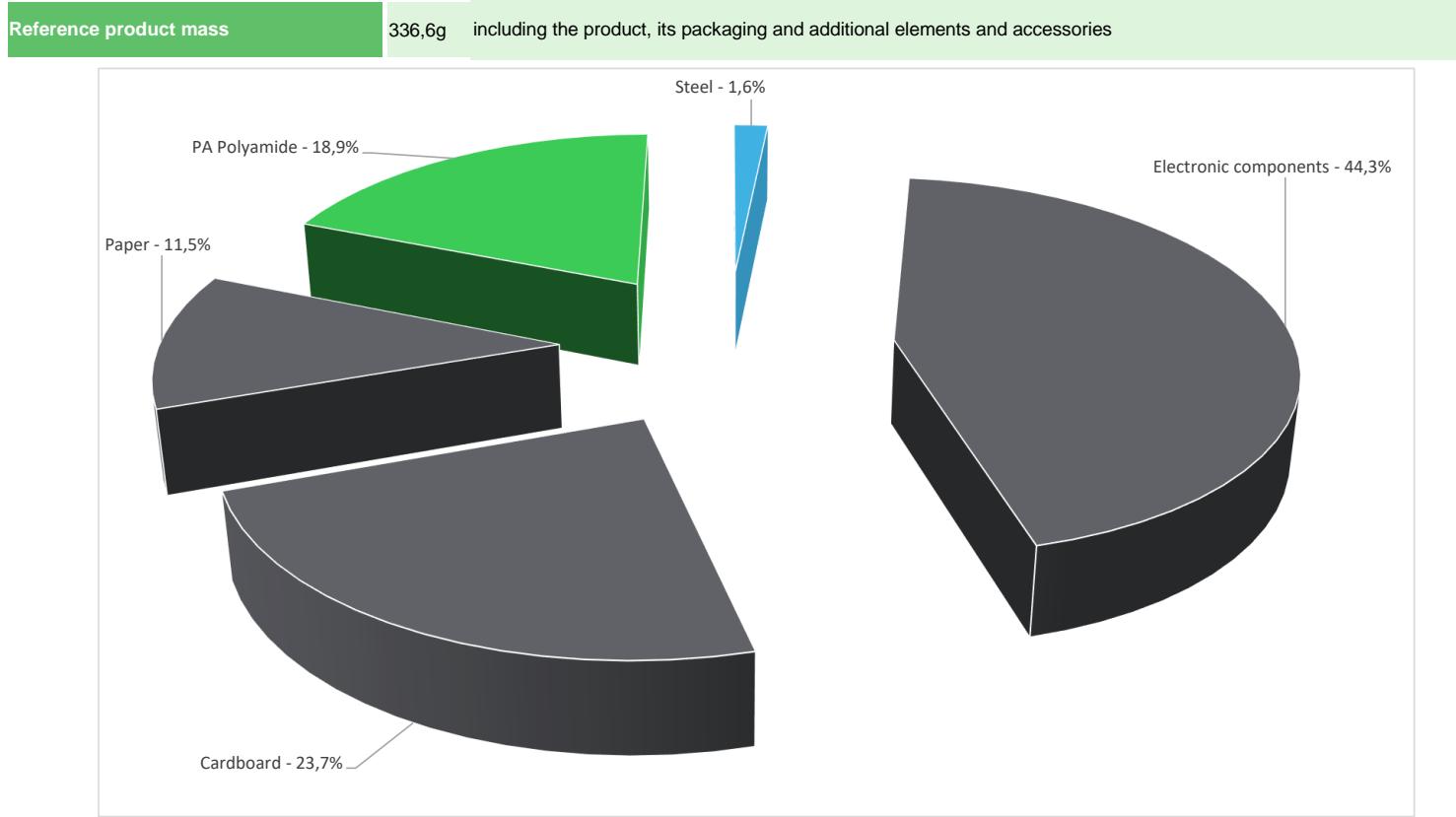


General information

Reference product	XPSMCM Safety CPU module w/communication - XPSMCMC10804E
Description of the range	<p>The Preventa XPSMCM modular safety controller system is designed to monitor and process safety sensor signals and can be configured using the configurable SoSafe software. The CPU of the system can be used stand-alone or extended by a variety of extension modules. The XPSMCM system is capable to monitor safety switches, emergency stops buttons, safety mats, two-hand controls, magnetic switches, foot switches, light curtains , speeds analog values and more. As a result of the signal processing potentially hazardous movement can be enabled or disabled. Status information can be provided via different fieldbusses.</p> <p>The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.</p>
Functional unit	To monitor and process safety sensor signals and provide status information on fieldbusses at 4W during 10 years with a 100% use rate.



Constituent materials



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:	2%	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	10 years			
Product category	Other equipments - Active product			
Installation elements	The product does not require any specific installation operation.			
Use scenario	The product is in active mode 100% of the time and stand-by mode 0% of the time with a power use of 4W for 10 years.			
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			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; IT	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		XPSMCM Safety CPU module w/communication - XPSMCMC10804E						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Loads and Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	3,10E+02	2,26E+01	4,41E-02	2,16E-01	2,87E+02	4,11E-01	-2,57E-01
Contribution to climate change-fossil	kg CO2 eq	3,10E+02	2,21E+01	4,41E-02	2,06E-01	2,87E+02	3,97E-01	-2,49E-01
Contribution to climate change-biogenic	kg CO2 eq	8,84E-01	4,77E-01	0*	9,60E-03	3,83E-01	1,41E-02	-8,85E-03
Contribution to climate change-land use and land use change	kg CO2 eq	2,13E-06	2,13E-06	0*	0*	0*	0*	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	3,29E-06	2,03E-06	0*	1,43E-08	1,23E-06	1,84E-08	-9,78E-09
Contribution to acidification	mol H+ eq	1,79E+00	1,41E-01	2,83E-04	8,57E-04	1,64E+00	7,18E-03	-1,18E-03
Contribution to eutrophication, freshwater	kg (PO4)3- eq	9,34E-04	1,41E-04	0*	1,56E-06	7,86E-04	4,96E-06	-2,62E-06
Contribution to eutrophication marine	kg N eq	2,08E-01	1,65E-02	1,33E-04	2,27E-04	1,86E-01	5,16E-03	-3,15E-04
Contribution to eutrophication, terrestrial	mol N eq	2,98E+00	1,75E-01	1,46E-03	1,71E-03	2,80E+00	2,36E-03	-2,61E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	6,56E-01	5,68E-02	3,69E-04	4,58E-04	5,98E-01	9,82E-04	-6,87E-04
Contribution to resource use, minerals and metals	kg Sb eq	4,56E-03	4,54E-03	0*	0*	2,08E-05	0*	6,44E-06
Contribution to resource use, fossils	MJ	7,61E+03	2,82E+02	0*	2,25E+00	7,32E+03	3,82E+00	-1,98E+00
Contribution to water use	m3 eq	1,25E+02	2,30E+01	0*	9,22E-02	9,55E+00	9,23E+01	-1,56E-01

Additional indicators for the French regulation are available as well

Inventory flows Indicators		XPSMCM Safety CPU module w/communication - XPSMCMC10804E						
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Loads and Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,42E+03	1,84E+01	0*	1,61E-01	1,41E+03	4,02E-01	1,28E+00
Contribution to use of renewable primary energy resources used as raw material	MJ	1,59E+00	1,59E+00	0*	0*	0*	0*	-2,14E+00
Contribution to total use of renewable primary energy resources	MJ	1,43E+03	2,00E+01	0*	1,61E-01	1,41E+03	4,02E-01	-8,54E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7,60E+03	2,78E+02	0*	2,25E+00	7,32E+03	3,82E+00	-1,98E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	4,06E+00	4,06E+00	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	7,61E+03	2,82E+02	0*	2,25E+00	7,32E+03	3,82E+00	-1,98E+00
Contribution to use of secondary material	kg	4,86E-02	4,86E-02	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	8,74E-01	5,14E-01	0*	1,06E-03	2,35E-01	1,23E-01	2,35E-03
Contribution to hazardous waste disposed	kg	2,93E+01	2,37E+01	0*	0*	5,37E+00	2,19E-01	5,04E-01
Contribution to non hazardous waste disposed	kg	6,18E+01	1,96E+01	0*	7,03E-01	4,13E+01	7,01E-02	-3,08E+00
Contribution to radioactive waste disposed	kg	2,11E-02	1,24E-02	0*	9,43E-05	8,65E-03	3,77E-06	-1,51E-04
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	3,39E-01	2,15E-01	0*	1,19E-01	0*	5,17E-03	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	2,22E-02	2,22E-02	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.

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.

Registration number : Date of issue	ENVPEP2403021_V1 2023/11/30	Drafting rules information and reference documents Validity period	PEP-PCR-ed4-2021 09 06 www.pep-ecopassport.org 5 years
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
Internal X External			
<p>The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDomain) 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 14021 : 2016 « Environmental labels and declarations. Type II environmental declarations »</p>			

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