Product Environmental Profile

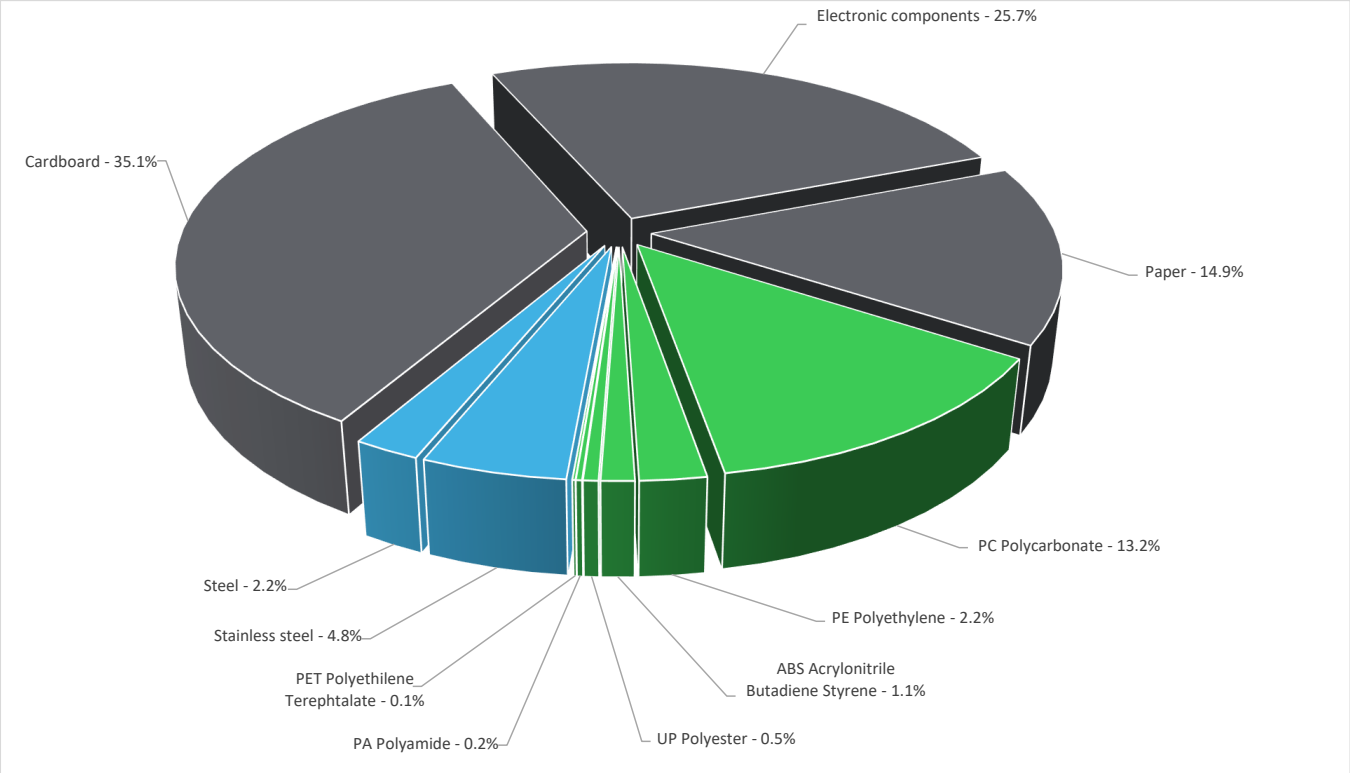
eIFE NW KIT SPARE

General Information

Reference product	eIFE NW KIT SPARE - LV851200SP
Description of the product	Embedded IFE is a gateway module which interfaces ULP protocol to Ethernet based protocols. Embedded IFE shall be an Ethernet gateway to • Control • Monitor • Configure Masterpact range of breaker – Masterpact NT/NW withdrawable with Masterpact MTZ Control Unit
Functional unit	Function of this Gateway Module is to Control, monitor and configure breaker functions, for 10 years.

Constituent Materials

Reference product mass	240 g	including the product, its packaging and additional elements and accessories



Plastics	17.3%
Metals	7.0%
Others	75.7%

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:	**14%**	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).

Environmental impacts

Reference service life time	10 years			
Product category	Other equipments - Active product			
Installation elements	No special components needed during the installation phase. The disposal of the packaging material is accounted during this phase (Including transport to disposal).			
Use scenario	As per PSR-0005 catagory rule the product is in active mode 100% of the time with a Power dissipation use of 2.4W, for 10 years of Lifetime.			
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; ID	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		**eIFE NW KIT SPARE - LV851200SP**						
Impact indicators	**Unit**	**Total**	**Manufacturing [A1 - A3]**	**Distribution [A4]**	**Installation [A5]**	**Use [B1 - B7]**	**End of Life [C1 - C4]**	**Benefits [D]**
Contribution to climate change	kg CO2 eq	9.77E+01	1.10E+01	3.14E-02	2.20E-01	8.62E+01	2.38E-01	-1.19E-01
Contribution to climate change-fossil	kg CO2 eq	9.75E+01	1.10E+01	3.14E-02	2.10E-01	8.61E+01	2.32E-01	-1.42E-01
Contribution to climate change-biogenic	kg CO2 eq	1.44E-01	1.31E-02	0*	9.76E-03	1.15E-01	5.86E-03	2.30E-02
Contribution to climate change-land use and land use change	kg CO2 eq	5.12E-08	3.41E-08	0*	1.71E-08	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.81E-06	1.41E-06	0*	1.46E-08	3.68E-07	7.84E-09	-5.81E-09
Contribution to acidification	mol H+ eq	5.77E-01	8.10E-02	2.02E-04	8.73E-04	4.92E-01	3.13E-03	-6.35E-04
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$eq	2.68E-04	2.85E-05	0*	1.66E-06	2.36E-04	2.06E-06	-1.22E-06
Contribution to eutrophication marine	kg N eq	6.73E-02	8.91E-03	9.48E-05	2.31E-04	5.59E-02	2.17E-03	-1.35E-04
Contribution to eutrophication, terrestrial	mol N eq	9.38E-01	9.50E-02	1.04E-03	1.75E-03	8.39E-01	1.29E-03	-1.07E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.11E-01	3.08E-02	2.63E-04	4.68E-04	1.79E-01	5.16E-04	-2.84E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.86E-03	1.85E-03	0*	0*	6.24E-06	0*	-2.03E-05
Contribution to resource use, fossils	MJ	2.33E+03	1.29E+02	4.37E-01	2.28E+00	2.20E+03	4.64E+00	-1.62E+00
Contribution to water use	m3 eq	4.58E+01	4.31E+00	0*	9.81E-02	3.05E+00	3.83E+01	-5.24E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators		eIFE NW KIT SPARE - LV851200SP						
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.26E+02	4.34E+00	0*	1.67E-01	4.22E+02	1.67E-01	6.61E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	5.04E-01	5.04E-01	0*	0*	0*	0*	-5.28E-01
Contribution to total use of renewable primary energy resources	MJ	4.27E+02	4.84E+00	0*	1.67E-01	4.22E+02	1.67E-01	1.33E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.33E+03	1.27E+02	4.37E-01	2.28E+00	2.20E+03	4.64E+00	-1.46E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.10E+00	2.10E+00	0*	0*	0*	0*	-1.60E-01
Contribution to total use of non-renewable primary energy resources	MJ	2.33E+03	1.29E+02	4.37E-01	2.28E+00	2.20E+03	4.64E+00	-1.62E+00
Contribution to use of secondary material	kg	1.09E-01	1.09E-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	1.18E+00	1.00E-01	0*	2.28E-03	7.10E-02	1.00E+00	-1.22E-03
Contribution to hazardous waste disposed	kg	3.41E+01	3.24E+01	0*	0*	1.61E+00	1.21E-01	-1.57E+00
Contribution to non hazardous waste disposed	kg	1.69E+01	3.79E+00	0*	7.13E-01	1.24E+01	3.79E-02	-1.64E+00
Contribution to radioactive waste disposed	kg	4.32E-03	1.62E-03	7.84E-07	9.59E-05	2.60E-03	2.03E-06	-9.95E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.41E-01	1.36E-03	0*	1.23E-01	0*	1.66E-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	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	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

For all the impact indicators, the Use stage is the greatest contributor due to the energy losses occuring throughout the product reference service lifetime except the Climate change-Land use and land use change (GWPlu), Ozone depletion (PEF-ODP), Resource use, minerals and metals (ADPe) and Water use (PEF-WU) stages. The manufacturing stage is the main contributor on Climate change-Land use and land use change (GWPlu), Ozone depletion (PEF-ODP), Resource use, minerals and metals(ADPe) stages. The End Of Life stage is the main contributor on Water use (PEF-WU).

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°	VH08	*Supplemented by*	PSR-0005-ed2-2016 03 29
Date of issue	12/2023	*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 C08-100-1 :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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