Product Environmental Profile

Electronic control module

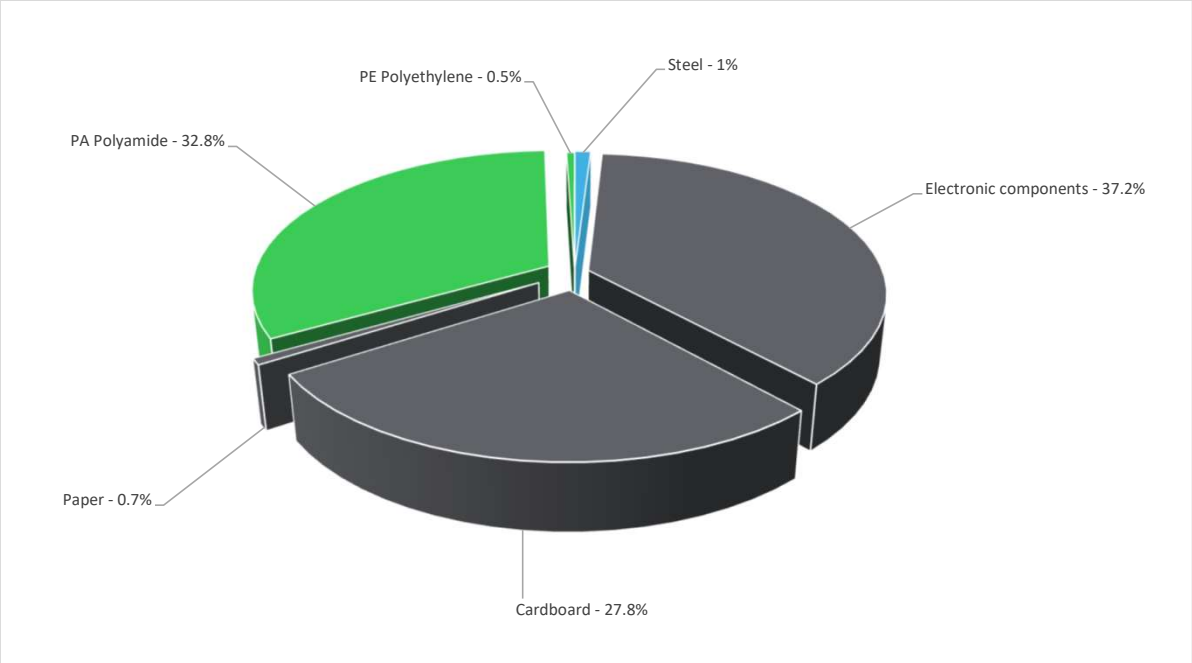
TeSys F

General information

Reference product	Electronic control module - LA4EM250FL
Description of the product	TeSys F Electronic Control Module (ECM), interface for a TeSys F coil LXEFL250 (to be ordered separately), for TeSys F 2-pole, 3-pole and 4-pole contactors LC1 F630, F1250. It enables a coil LXEFL250 to be supplied under a wide operating voltage 100-250V AC 50/60Hz or 100-380V DC. It provides a PLC 0-24V DC digital input for the control of the contactor. To be mounted on the right hand side of the contactor, on the auxiliaries support, and connected to the coil.
Description of the range	Electronic control module,TeSys F 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.
Functional unit	It enables a coil LXEFL250 to be supplied under a wide operating voltage 100-250V AC 50/60Hz or 100-380V DC. It provides a PLC 0-24V DC digital input for the control of the contactor.

Constituent materials

Reference product mass	207 g	including the product, its packaging and additional elements and accessories



Plastics	33.30%
Metals	1.00%
Others	65.70%

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:	**1%**	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	20 years			
Product category	Other equipments - Passive product - non-continuous operation			
Installation elements	Ref LA4EM250FL does not require any installation operations			
Use scenario	load rate / rated current (In): 30 % of In percentage of utilization time: 30%			
Technological representativeness	TeSys F Electronic Control Module (ECM), interface for a TeSys F coil LXEFL250 (to be ordered separately), for TeSys F 2-pole, 3-pole and 4-pole contactors LC1 F630, F1250. It enables a coil LXEFL250 to be supplied under a wide operating voltage 100-250V AC 50/60Hz or 100-380V DC. It provides a PLC 0-24V DC digital input for the control of the contactor. To be mounted on the right hand side of the contactor, on the auxiliaries support, and connected to the coil.			
Geographical representativeness	Europe			
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 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		**Electronic control module - LA4EM250FL**						
Impact indicators	**Unit**	**Total**	**Manufacturing**	**Distribution**	**Installation**	**Use**	**End of Life**	**Benefits**
			[A1 - A3]	**[A4]**	**[A5]**	**[B1 - B7]**	**[C1 - C4]**	**[D]**
Contribution to climate change	kg CO2 eq	1.25E+02	6.60E+00	5.97E-02	1.06E-01	1.18E+02	2.29E-01	-1.42E-01
Contribution to climate change-fossil	kg CO2 eq	1.25E+02	6.58E+00	5.97E-02	1.01E-01	1.18E+02	2.29E-01	-1.38E-01
Contribution to climate change-biogenic	kg CO2 eq	1.83E-01	2.05E-02	0*	4.72E-03	1.58E-01	0*	-4.29E-03
Contribution to climate change-land use and land use change	kg CO2 eq	6.72E-09	6.72E-09	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.76E-06	2.20E-06	5.27E-08	7.02E-09	5.07E-07	6.53E-10	-7.20E-09
Contribution to acidification	mol H+ eq	7.08E-01	3.07E-02	2.59E-04	4.22E-04	6.76E-01	8.69E-05	-6.82E-04
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	3.54E-04	2.88E-05	0*	7.67E-07	3.24E-04	0*	-1.25E-06
Contribution to eutrophication marine	kg N eq	8.26E-02	5.50E-03	1.19E-04	1.12E-04	7.68E-02	2.15E-05	-1.64E-04
Contribution to eutrophication, terrestrial	mol N eq	1.21E+00	5.75E-02	1.29E-03	8.44E-04	1.15E+00	2.97E-04	-1.39E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.66E-01	1.88E-02	4.23E-04	2.25E-04	2.47E-01	6.78E-05	-3.71E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.19E-03	1.18E-03	0*	0*	8.58E-06	0*	-2.41E-06
Contribution to resource use, fossils	MJ	3.13E+03	1.06E+02	7.25E-01	1.11E+00	3.02E+03	5.37E-01	-1.30E+00
Contribution to water use	m3 eq	6.16E+00	1.90E+00	3.03E-03	4.53E-02	4.19E+00	2.16E-02	-8.14E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators		Electronic control module - LA4EM250FL						
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	5.82E+02	1.89E+00	0*	7.93E-02	5.80E+02	0*	6.28E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.16E+00	1.16E+00	0*	0*	0*	0*	-1.05E+00
Contribution to total use of renewable primary energy resources	MJ	5.83E+02	3.05E+00	0*	7.93E-02	5.80E+02	0*	-4.22E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.12E+03	1.04E+02	7.25E-01	1.11E+00	3.02E+03	5.37E-01	-1.35E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.51E+00	2.51E+00	0*	0*	0*	0*	4.70E-02
Contribution to total use of non-renewable primary energy resources	MJ	3.13E+03	1.06E+02	7.25E-01	1.11E+00	3.02E+03	5.37E-01	-1.30E+00
Contribution to use of secondary material	kg	1.11E-03	1.11E-03	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	1.44E-01	4.43E-02	7.05E-05	1.06E-03	9.76E-02	5.02E-04	-1.90E-03
Contribution to hazardous waste disposed	kg	2.12E+01	1.89E+01	0*	0*	2.21E+00	6.99E-02	-1.92E-01
Contribution to non hazardous waste disposed	kg	2.13E+01	3.83E+00	0*	3.45E-01	1.70E+01	7.33E-02	-1.53E+00
Contribution to radioactive waste disposed	kg	1.72E-02	1.36E-02	1.19E-05	4.63E-05	3.57E-03	2.82E-06	-8.09E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	6.03E-02	0*	0*	5.83E-02	0*	1.96E-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	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

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.

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Verifier accreditation N°		*Supplemented by*	PSR-0005-ed2-2016 03 29
Date of issue	2023/10/20	*Information and reference*	www.pep-ecopassport.org
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
Internal X External			
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 14021 : 2016 « Environmental labels and declarations. Type II environmental declarations »			

Schneider Electric Industries SAS
Country Customer Care Center
http://www.schneider-electric.com/contact
35, rue Joseph Monier
CS 30323
F- 92500 Rueil Malmaison Cedex
RCS Nanterre 954 503 439
Capital social 896 313 776 €

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