

Product Environmental Profile

TeSys Deca Green AC/DC 3pole contactor, 65 A

TeSys Deca Green 40A-80A

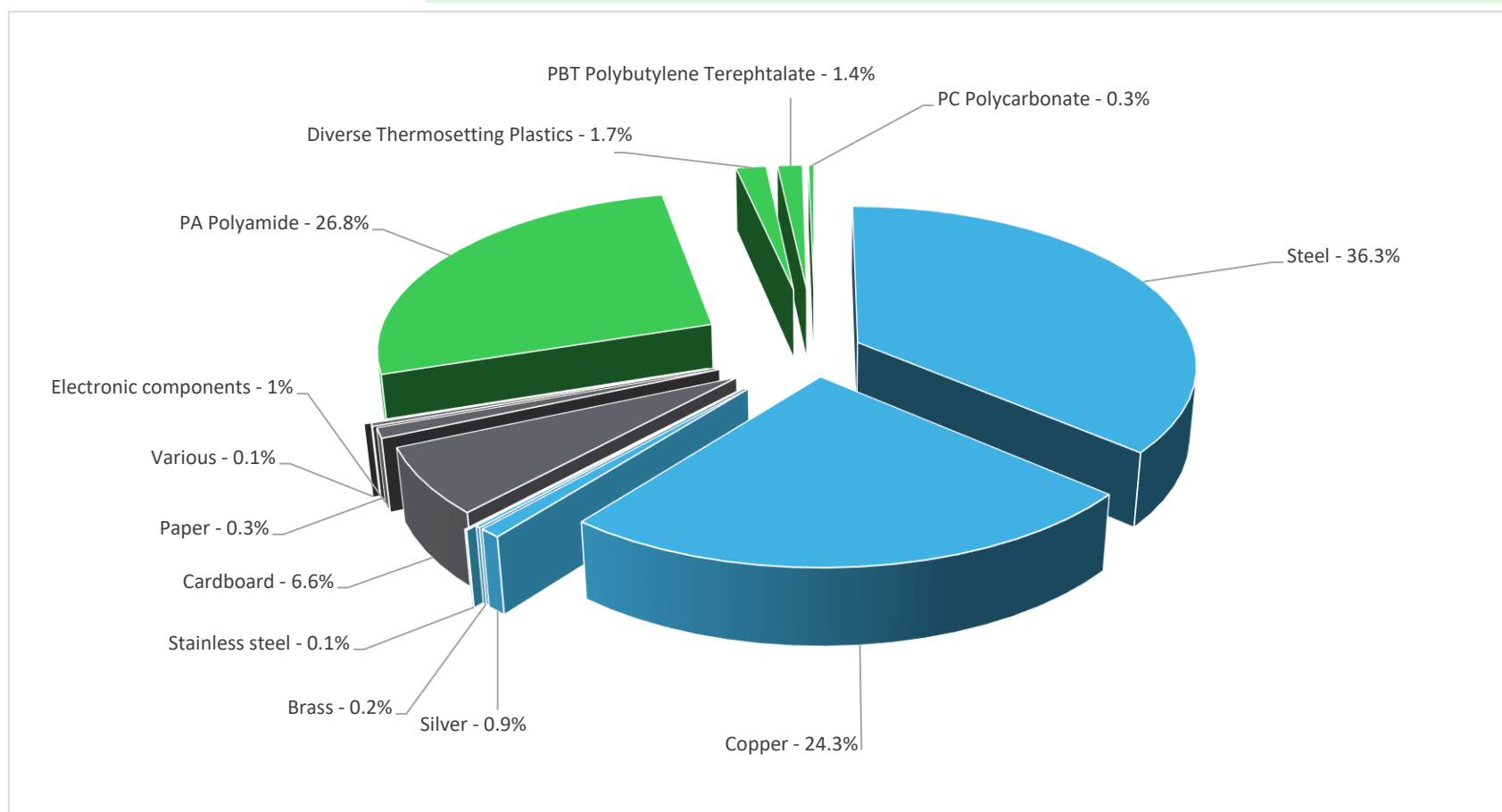


General information

Reference product	TeSys Deca Green AC/DC 3pole contactor,65 A - LC1D65AKUE
Description of the product	The main purpose of the product is to switch on and off electrical power supply of a downstream installation with an electrical and/or mechanical control.
Description of the range	The products of the range are: rated current:40A-80A,3P/4P,TeSys Deca green contactor ,the representative product used for analysis is 3P 65A (product number: LC1D65AKUE) 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	Establish and cut off the supply of a downstream installation from an electrical and/or mechanical control characterised by the composition of the poles or type of contacts X, a rated voltage of Ue, a rated current Ie, a control circuit voltage Uc, with Np poles, and if applicable the specific specifications, in the Household/Commercial or Industrial application areas, according to the appropriate use scenario, and during the reference service life of the product of 20 years
Specifications are:	X = 3NO Ue = 690V AC 25...400 Hz Ie = 65A Np = 3P Uc = 100...250 V AC 50/60 Hz/DC Category of use (AC-1, AC-3,AC-3e)

Constituent materials

Reference product mass 907 g including the product, its packaging, additional elements and accessories



Plastics	30.20%
Metals	61.80%
Others	8.00%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
<https://www.se.com>

Additional environmental information

End Of Life	Recyclability potential:	65%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR 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	Contactors - Industrial		
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study		
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption		
Installation elements	The product does not require any installation operations		
Use scenario	Load rate = 50 % Ie Use rate = 50 % RLT		
Time representativeness	The collected data are representative of the year 2024		
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and representative of the actual type of technologies used to make the product.		
Final assembly site	France		
Geographical representativeness	France		
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2020; France, FR	Electricity Mix; Low voltage; 2020; France, FR	Electricity Mix; Low voltage; 2020; France, FR
	[C1 - C4]		
	Electricity Mix; Low voltage; 2020; France, FR	Electricity Mix; Low voltage; 2020; France, FR	

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.se.com/contact>

Mandatory Indicators		TeSys Deca Green AC/DC 3pole contactor,65 A - LC1D65AKUE						
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to climate change	kg CO2 eq	4.46E+01	7.20E+00	1.10E-01	7.10E-02	3.50E+01	2.21E+00	-1.78E+00
Contribution to climate change-fossil	kg CO2 eq	4.44E+01	7.19E+00	1.10E-01	6.75E-02	3.49E+01	2.16E+00	-1.82E+00
Contribution to climate change-biogenic	kg CO2 eq	2.17E-01	1.17E-02	0*	3.55E-03	1.54E-01	4.74E-02	3.45E-02
Contribution to climate change-land use and land use change	kg CO2 eq	4.80E-06	4.04E-06	0*	0*	0*	7.62E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.99E-06	1.39E-06	0*	9.57E-10	5.77E-07	2.45E-08	-3.39E-07
Contribution to acidification	mol H+ eq	2.73E-01	7.55E-02	6.95E-04	2.15E-04	1.87E-01	9.56E-03	-4.45E-02
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	3.10E-03	8.74E-05	0*	1.32E-06	1.57E-03	1.44E-03	-3.74E-06
Contribution to eutrophication, marine	kg N eq	3.53E-02	5.63E-03	3.26E-04	9.27E-05	2.76E-02	1.57E-03	-1.40E-03
Contribution to eutrophication, terrestrial	mol N eq	5.23E-01	5.96E-02	3.57E-03	6.47E-04	4.40E-01	1.90E-02	-1.60E-02
Contribution to photochemical ozone formation - human health	kg NMVOC eq	1.07E-01	2.19E-02	9.01E-04	1.47E-04	7.92E-02	5.32E-03	-7.37E-03
Contribution to resource use, minerals and metals	kg Sb eq	8.99E-03	8.90E-03	0*	0*	4.76E-05	4.66E-05	-7.12E-04
Contribution to resource use, fossils	MJ	6.63E+03	1.43E+02	1.53E+00	7.35E-01	6.41E+03	8.01E+01	-3.93E+01
Contribution to water use	m3 eq	1.34E+01	4.50E+00	0*	5.44E-03	7.21E+00	1.66E+00	-2.36E+00

Inventory flows Indicators		TeSys Deca Green AC/DC 3pole contactor, 65 A - LC1D65AKUE						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to renewable primary energy used as energy	MJ	7.14E+02	4.45E+00	0*	9.71E-02	7.09E+02	1.12E+00	-9.41E-01
Contribution to renewable primary energy used as raw material	MJ	1.32E+00	1.32E+00	0*	0*	0*	0*	-1.03E+00
Contribution to total renewable primary energy	MJ	7.16E+02	5.77E+00	0*	9.71E-02	7.09E+02	1.12E+00	-1.97E+00
Contribution to non renewable primary energy used as energy	MJ	6.62E+03	1.35E+02	1.53E+00	7.35E-01	6.41E+03	8.01E+01	-3.93E+01
Contribution to non renewable primary energy used as raw material	MJ	7.88E+00	7.88E+00	0*	0*	0*	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	6.63E+03	1.43E+02	1.53E+00	7.35E-01	6.41E+03	8.01E+01	-3.93E+01
Contribution to use of secondary material	kg	0.00E+00	0*	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 fresh water	m³	3.13E-01	1.05E-01	0*	1.27E-04	1.70E-01	3.86E-02	-5.49E-02
Contribution to hazardous waste disposed	kg	1.02E+02	9.81E+01	0*	0*	3.49E+00	0*	-6.01E+01
Contribution to non hazardous waste disposed	kg	1.34E+01	4.70E+00	3.85E-03	2.47E-02	8.39E+00	3.26E-01	-1.14E+00
Contribution to radioactive waste disposed	kg	1.30E-02	1.13E-02	2.74E-06	3.84E-06	1.66E-03	1.50E-05	-5.38E-04
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-01	3.20E-02	0*	0*	0*	5.71E-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	7.20E-03	3.33E-04	0*	1.22E-03	0*	5.65E-03	0.00E+00

* represents less than 0.01% of the total life cycle of the reference flow

Contribution to biogenic carbon content of the product	kg of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	1.78E-02

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version v6.2.2, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

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 :	ENVPEP1607010_V4	Drafting rules	PCR-4-ed4-EN-2021 09 06
Date of issue	01-2025	Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
		Information and reference documents	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)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"			

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