Product Environmental Profile

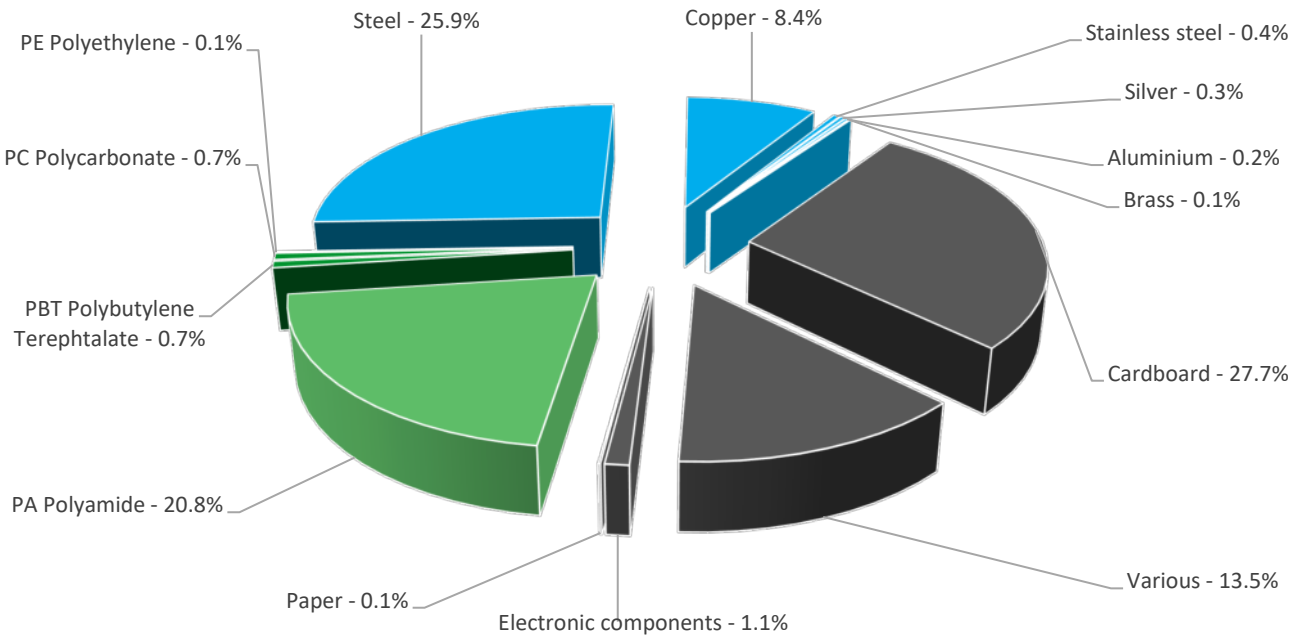
Contactor TeSysG225 3P Std 100-250V ACDC

General information

Representative product	Contactor TeSysG225 3P Std 100-250V ACDC - LC1G225KUEN
Description of the product	This product is a 440V&225A and control voltage 100-250V(AC-DC) contactor
Functional unit	To make and break currents up to 225A for motor loads, and up to 330A for resistice loads at voltage up to 440V , in accordance with the IEC60947-4,The function unit is accordance with the following technical data: - IP20 -Rated shock withstand voltage: 8KV(Uimp) - Maximun operation frequency: 600tims/h

Constituent materials

Reference product mass	4950 g	including the product, its packaging and additional elements and accessories



	Plastics	22.3%
	Metals	35.3%
	Others	42.4%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

Additional environmental information

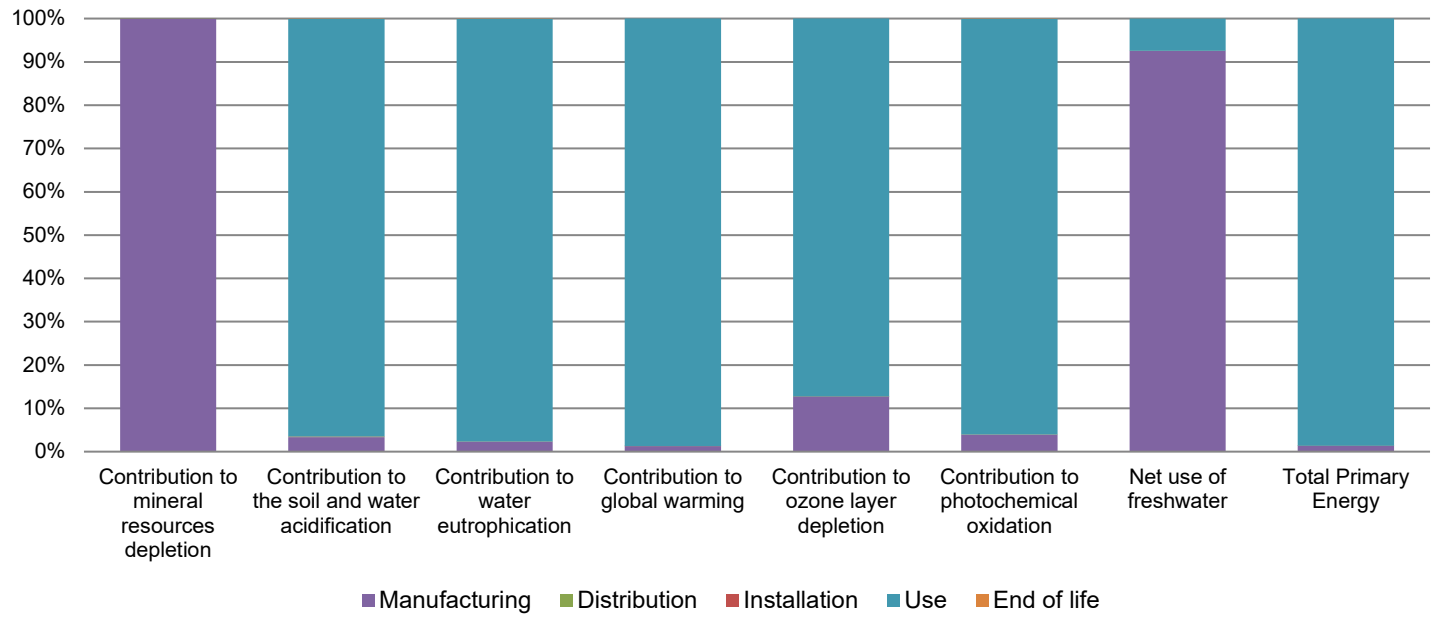
The Contactor TeSysG225 3P Std 100-250V ACDC presents the following relevent environmental aspects			
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified		
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 1347 g, consisting of cardboard (99.8%), PE film (0.2%)		
Installation	Ref LC1G225KUEN does not require any installation operations,The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).		
Use	The product does not require special maintenance operations.		
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains electronic card (56g) that should be separated from the stream of waste so as to optimize end-of-life treatment.		
	Recyclability potential:	**48%**	Based on “ECO’DEEE recyclability and recoverability calculation method” (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental impacts

Reference life time	20 years
Product category	Contactor, remote control switch, combinations, starters
Installation elements	No special components needed
Use scenario	Poles dissipation at Ith 330A=17W Coil consumption= 9W loading rate=50% duty cycle=50% Energy consumption=3*poles dissipation*loading rate*duty cycle+coil consumptin=3*17*0.25*0.25+9=21.75W
Geographical representativeness	China
Technological representativeness	This product is a 440V&225A and control voltage 100-250V(AC-DC) contactor

Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: CHINA	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN

Compulsory indicators	**Contactor TeSysG225 3P Std 100-250V ACDC - LC1G225KUEN**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.11E-02	1.11E-02	0*	0*	8.55E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	2.19E+00	7.39E-02	2.92E-03	3.04E-04	2.11E+00	8.67E-04
Contribution to water eutrophication	kg PO_4^{3-} eq	5.71E-01	1.27E-02	6.72E-04	7.48E-05	5.57E-01	1.99E-04
Contribution to global warming	kg CO_2 eq	1.97E+03	2.52E+01	6.39E-01	0*	1.95E+03	0*
Contribution to ozone layer depletion	kg CFC11 eq	1.78E-05	2.26E-06	0*	0*	1.55E-05	0*
Contribution to photochemical oxidation	kg C_2H_4 eq	2.60E-01	1.00E-02	2.08E-04	0*	2.49E-01	6.16E-05
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2.93E+01	2.71E+01	0*	0*	2.17E+00	0*
Total Primary Energy	MJ	3.23E+04	4.32E+02	9.03E+00	0*	3.19E+04	0*



Optional indicators		Contactor TeSysG225 3P Std 100-250V ACDC - LC1G225KUEN					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.97E+04	2.63E+02	8.97E+00	0*	2.94E+04	0*
Contribution to air pollution	m³	2.08E+05	5.84E+03	2.72E+01	0*	2.02E+05	0*
Contribution to water pollution	m³	1.01E+05	3.72E+03	1.05E+02	1.11E+01	9.68E+04	3.18E+01
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	7.91E-02	7.91E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.67E+03	3.43E+01	0*	0*	1.63E+03	0*
Total use of non-renewable primary energy resources	MJ	3.06E+04	3.97E+02	9.02E+00	0*	3.02E+04	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.64E+03	7.50E+00	0*	0*	1.63E+03	0*
Use of renewable primary energy resources used as raw material	MJ	2.68E+01	2.68E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.06E+04	3.62E+02	9.02E+00	0*	3.02E+04	0*
Use of non renewable primary energy resources used as raw material	MJ	3.57E+01	3.57E+01	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	2.68E+02	2.05E+02	0*	0*	6.28E+01	0*
Non hazardous waste disposed	kg	4.26E+02	7.28E+01	0*	0*	3.53E+02	0*
Radioactive waste disposed	kg	3.50E-02	2.34E-02	1.62E-05	0*	1.16E-02	4.89E-06
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.42E+00	4.15E-01	0*	1.34E+00	0*	1.67E+00
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	7.29E-02	0*	0*	0*	0*	7.29E-02
Exported Energy	MJ	4.25E-03	4.00E-04	0*	3.85E-03	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.1, database version 2020-12 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

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	09/2021	*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 Philippe Osset (SOLINNEN)

PEP are compliant with XP C08-100-1 :2016

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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