Product Environmental Profile

Powerpact™ B-frame molded case circuit breaker









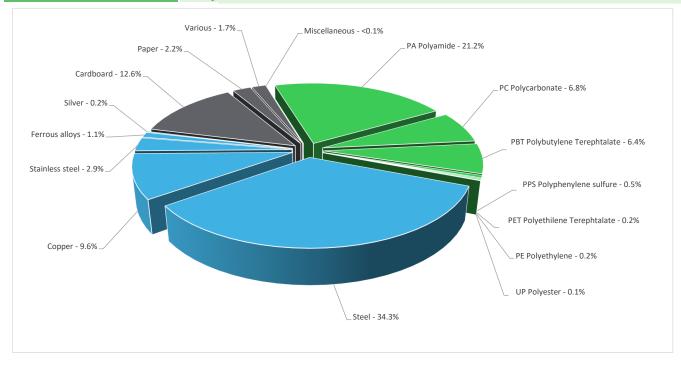
General information

Reference product	Powerpact™ B-frame molded case circuit breaker - BJL36125LU
Description of the product	The PowerPact B-frame BJL36125LU three pole circuit breaker equipped with a thermal magnetic trip unit is designed to provide protection against overloads and short-circuits for electrical distribution systems with assigned voltage up to 600Y/347VAC and rated current of 125A.
Description of the range	Single product
Functional unit	Protect the installation from overloads and short circuits in a circuit with rated voltage Ue, rated current In, with Np poles, a rated breaking capacity Icu, and, if applicable, the specific specifications, in the Industrial application area, according to the appropriate use scenario, and during the reference service life of the product of 20 years.
Specifications are:	Ue =600Y/347VAC In =125A Np = 3 Icu: Rated breaking capacity (A)

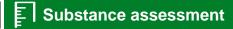


Constituent materials

Reference product mass 1378.9 g including the product, its packaging, additional elements and accessories







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



(19) Additional environmental information

Recyclability potential:

55%

The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB 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).

Environmental impacts

Reference service life time	20 years									
Product category	Circuit-breakers - 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 pr generates a negligable consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligable consumption								
Installation elements	The product does not require any installation open	rations.								
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT The energy consumption of the product is 51.598 the RLT as 12.8997 W.	38 W on full time load.Accordin	g to PSR0005, load rate: 50 %	of In; Use time rate: 30% of						
Time representativeness	The collected data are representative of the year	2025								
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.									
Geographical	Final assembly site Use phase End-of-life									
representativeness	Tlaxcala, Mexico US US									
Energy model used	[A1 - A3] [A5] [B6] [C Electricity Mix; Low voltage; Global, I No energy used 2020: Inited States, US French dails.									
	ectricity Mix; Low Voltage; 2020; Mexico, Mix No energy used		2020; United States, US	French datasets are used.						

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	Powerpact™ B-frame molded case circuit breaker - BJL36125LU							
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	3.37E+02	7.93E+00	3.98E-01	7.71E-03	3.26E+02	2.28E+00	-2.29E+00
Contribution to climate change-fossil	kg CO2 eq	3.35E+02	7.95E+00	3.98E-01	7.72E-03	3.24E+02	2.27E+00	-2.26E+00
Contribution to climate change-biogenic	kg CO2 eq	1.67E+00	0*	0*	0*	1.68E+00	3.61E-03	-2.98E-02
Contribution to climate change-land use and land use chan	ge kg CO2 eq	1.07E-04	1.07E-04	0*	0*	0*	3.30E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.71E-06	3.06E-06	3.53E-07	3.14E-10	1.26E-06	3.44E-08	-3.92E-07
Contribution to acidification	mol H+ eq	1.56E+00	6.78E-02	1.80E-03	1.07E-04	1.49E+00	6.11E-03	-3.29E-02
Contribution to eutrophication, freshwater	kg P eq	6.13E-04	6.94E-05	0*	3.92E-08	5.41E-04	2.76E-06	-3.54E-06
Contribution to eutrophication marine	kg N eq	1.97E-01	7.59E-03	8.31E-04	5.04E-05	1.87E-01	1.30E-03	-1.47E-03
Contribution to eutrophication, terrestrial	mol N eq	2.32E+00	8.10E-02	9.00E-03	5.13E-04	2.21E+00	1.50E-02	-1.71E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	6.54E-01	2.89E-02	2.92E-03	1.23E-04	6.18E-01	3.97E-03	-7.07E-03
Contribution to resource use, minerals and metals	kg Sb eq	3.11E-03	3.06E-03	3.44E-11	3.44E-10	4.95E-05	0*	-8.34E-04
Contribution to resource use, fossils	MJ	7.25E+03	1.54E+02	4.98E+00	9.06E-02	7.07E+03	1.62E+01	-5.10E+01
Contribution to water use	m3 eq	2.05E+01	3.82E+00	2.03E-02	1.87E-02	1.64E+01	2.59E-01	-1.89E+00

Inventory flows Indicators		Powerpa	ct™ B-frame mo	lded case circu	it breaker - BJL3	6125LU		
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 use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.66E+02	2.26E+00	0*	0*	8.63E+02	8.46E-01	-9.09E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	4.09E+00	4.09E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	8.70E+02	6.35E+00	0*	0*	8.63E+02	8.46E-01	-9.09E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7.24E+03	1.41E+02	4.98E+00	0*	7.07E+03	1.62E+01	-5.10E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.29E+01	1.29E+01	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	7.25E+03	1.54E+02	4.98E+00	0*	7.07E+03	1.62E+01	-5.10E+01
Contribution to use of secondary material	kg	1.16E-03	1.16E-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	4.79E-01	8.91E-02	4.73E-04	4.36E-04	3.82E-01	7.11E-03	-4.41E-02
Contribution to hazardous waste disposed	kg	8.37E+01	7.76E+01	0*	0*	6.10E+00	8.92E-03	-6.55E+01
Contribution to non hazardous waste disposed	kg	5.94E+01	9.71E+00	0*	2.05E-01	4.82E+01	1.31E+00	-1.64E+00
Contribution to radioactive waste disposed	kg	1.48E-02	3.23E-03	7.96E-05	0*	1.14E-02	5.80E-05	-7.51E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	6.92E-01	4.17E-02	0*	0*	0*	6.51E-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	6.81E-03	3.76E-04	0*	0*	0*	6.43E-03	0.00E+00
* represents less than 0.01% of the total life cycle of the refe	erence flow							
Contribution to biogenic carbon content of the product	kg of C	0.00E+00						

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

6.02E-02

Mandatory Indicators		Powerpact™ B	-frame mo	lded cas	se circuit	t breaker - BJL3	36125LU		
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	3.26E+02	0*	0*	0*	0*	0*	3.26E+02	0*
Contribution to climate change-fossil	kg CO2 eq	3.24E+02	0*	0*	0*	0*	0*	3.24E+02	0*
Contribution to climate change-biogenic	kg CO2 eq	1.68E+00	0*	0*	0*	0*	0*	1.68E+00	0*
Contribution to climate change-land use and land use change	ge kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	1.26E-06	0*	0*	0*	0*	0*	1.26E-06	0*
Contribution to acidification	mol H+ eq	1.49E+00	0*	0*	0*	0*	0*	1.49E+00	0*
Contribution to eutrophication, freshwater	kg P eq	5.41E-04	0*	0*	0*	0*	0*	5.41E-04	0*
Contribution to eutrophication marine	kg N eq	1.87E-01	0*	0*	0*	0*	0*	1.87E-01	0*
Contribution to eutrophication, terrestrial	mol N eq	2.21E+00	0*	0*	0*	0*	0*	2.21E+00	0*
Contribution to photochemical ozone formation - human nealth	kg COVNM eq	6.18E-01	0*	0*	0*	0*	0*	6.18E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	4.95E-05	0*	0*	0*	0*	0*	4.95E-05	0*
Contribution to resource use, fossils	MJ	7.07E+03	0*	0*	0*	0*	0*	7.07E+03	0*
Contribution to water use	m3 eq	1.64E+01	0*	0*	0*	0*	0*	1.64E+01	0*

Contribution to biogenic carbon content of the associated

Inventory flows Indicators	Powerpact™ B-frame molded case circuit breaker - BJL36125LU							6125LU		
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]	
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.63E+02	0*	0*	0*	0*	0*	8.63E+02	0*	
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to total use of renewable primary energy resources	MJ	8.63E+02	0*	0*	0*	0*	0*	8.63E+02	0*	
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7.07E+03	0*	0*	0*	0*	0*	7.07E+03	0*	
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to total use of non-renewable primary energy resources	MJ	7.07E+03	0*	0*	0*	0*	0*	7.07E+03	0*	
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to net use of freshwater	m³	3.82E-01	0*	0*	0*	0*	0*	3.82E-01	0*	
Contribution to hazardous waste disposed	kg	6.10E+00	0*	0*	0*	0*	0*	6.10E+00	0*	
Contribution to non hazardous waste disposed	kg	4.82E+01	0*	0*	0*	0*	0*	4.82E+01	0*	
Contribution to radioactive waste disposed	kg	1.14E-02	0*	0*	0*	0*	0*	1.14E-02	0*	
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*	

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

Life cycle assessment performed with EIME version v6.2.5-6, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 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.

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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								
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 14025:2006 "Environmental labels and declarations. Type III environmental declarations"								

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