Product Environmental Profile

PowerPact J-frame Molded Case Circuit Breaker with Thermalmagnetic Trip Unit









General information

PowerPact J-frame Molded Case Circuit Breaker with Thermal-magnetic Trip Unit - JGL36250

This product with thermal-magnetic Trip Unit is designed to protect electrical systems from damage caused by overloads and short circuits.

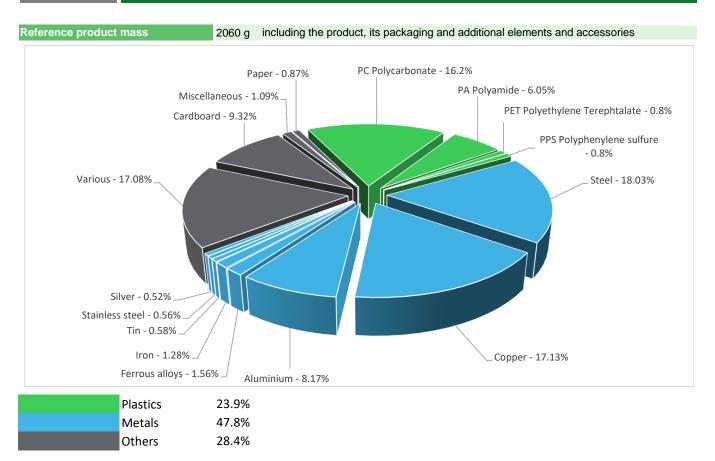
Protect during 20 years the installation against overloads and short-circuits in circuit with assigned voltage 600 VAC and rated current 250 A. This protection is ensured in accordance with the following parameters:

Number of poles: 3P

Rated breaking capacity: 18 kA

Tripping curve: D

Constituent materials



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



The PowerPact J-frame Molded Case Circuit Breaker with Thermal-magnetic Trip Unit presents the following relevent environmental aspects							
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified						
	Weight and volume of the packaging optimized, based on the European Union's packaging directive						
Distribution	Packaging weight is 202.8 g, consisting of Cardboard (94.70%), Paper (5.13%), PE Polyethylene (0.17%)						
	Product distribution optimised by setting up local distribution centres						
Installation	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).						
Use	The end user must refer to maintenance guide of the product in order to do the appropriate maintenance operations. If the VISI-TRIP HANDLE C1 MODULE of 2.5 g have to be changed every 10 years, and 1 battery of 2 g have to changed every 5 years						
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 1 electronic card (NNZ25209 - 2.4679 g) and battery (2 g) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website						
	http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page						
	Recyclability potential: 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	Circuit-breakers						
Installation elements	End of Life of the Packaging						
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT Assumed service lifetime is 20 years and use scenario is : product dissipation is 21.95 W at 50% loading rate						
Geographical representativeness	US						
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.						
	Manufacturing	Installation	Use	End of life			
Energy model used	Energy model used: US	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US			

Compulsory indicators		PowerPact 3	J-frame Molded C	ase Circuit Bre	eaker with The	ermal-magne	etic Trip Unit
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.16E-02	1.15E-02	0*	0*	5.34E-05	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.18E+00	3.15E-02	1.21E-03	0*	1.15E+00	5.58E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	3.19E-01	1.56E-02	2.80E-04	5.50E-04	3.03E-01	1.53E-04
Contribution to global warming	kg CO ₂ eq	1.21E+03	1.01E+01	2.66E-01	2.88E-01	1.20E+03	2.80E-01
Contribution to ozone layer depletion	kg CFC11 eq	2.28E-05	1.02E-06	0*	0*	2.18E-05	1.25E-08
Contribution to photochemical oxidation	kg C₂H₄ eq	1.87E-01	3.04E-03	8.66E-05	6.97E-05	1.84E-01	5.86E-05



Optional indicators	PowerPact J-frame Molded Case Circuit Breaker with Thermal-magnetic Trip Unit - JGL36250						
mpact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.47E+04	1.07E+02	3.73E+00	0*	1.46E+04	2.19E+00
Contribution to air pollution	m³	1.05E+05	2.96E+03	1.13E+01	0*	1.02E+05	1.97E+01
Contribution to water pollution	m³	6.08E+04	1.61E+03	4.37E+01	1.65E+01	5.91E+04	2.33E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.62E-01	2.57E-01	0*	0*	5.52E-03	0*
Total use of renewable primary energy resources	MJ	9.77E+02	8.38E+00	0*	0*	9.69E+02	0*
Total use of non-renewable primary energy resources	MJ	1.53E+04	1.50E+02	3.75E+00	0*	1.52E+04	2.73E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9.73E+02	4.57E+00	0*	0*	9.69E+02	0*
Use of renewable primary energy resources used as raw material	MJ	3.81E+00	3.81E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.53E+04	1.29E+02	3.75E+00	0*	1.52E+04	2.73E+00
Use of non renewable primary energy resources used as raw material	MJ	2.03E+01	2.01E+01	0*	0*	2.27E-01	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	1.24E+02	8.90E+01	0*	0*	3.28E+01	2.65E+00
Non hazardous waste disposed	kg	1.97E+02	1.40E+01	0*	2.03E-01	1.83E+02	0*
Radioactive waste disposed	kg	2.46E-02	5.63E-03	6.73E-06	0*	1.89E-02	1.32E-05
2145	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.26E+00	1.76E-01	0*	0*	1.01E-02	1.08E+00
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	3.51E-02	0*	0*	0*	5.42E-04	3.46E-02
Exported Energy	MJ	6.56E-04	6.02E-05	0*	5.80E-04	1.58E-05	0*

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

Life cycle assessment performed with EIME version EIME v5.9.3, database version 2020-12 in compliance with ISO14044.

The use phase and manufacturing phase (ADPe for EN15804; freshwater; secondary material) 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	07/2022	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org

Independent verification of the declaration and data

Internal X External

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 - Self-declared environmental claims (Type II environmental labelling) »

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