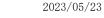
Product Environmental Profile

Thermal magnetic Circuit Breaker TeSys GB2CD/GB2CB/GB2CS

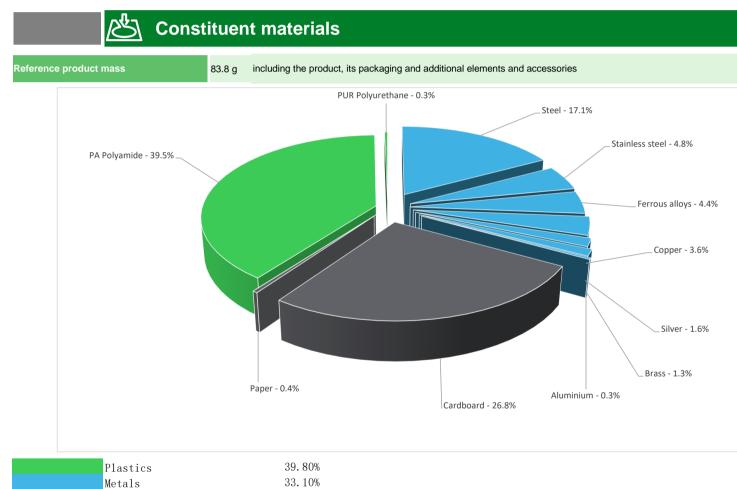
TeSys GB2, Circuit breaker, Thermal magnetic





Schneider Belectric

General information							
Reference product	Thermal magnetic Circuit Breaker TeSys GB2CD/GB2CB/GB2CS - GB2CD14						
Description of the product Protect the installation from overload and short circuits.							
Departmention of the sense	12 ratings are available, from 0.5 to 20 A, in single-pole (GB2CB), single-pole +neutral (GB2CD) versions,2 ratings are available, 0.5 and 1 A, in single-pole(GB2CS) version.						
Description of the range	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	Protect during 20 years the installation against overloads and short-circuits in circuit with assigned voltage 250VAC and rated current 8A. This protection is ensured in accordance with the following parameters: - Number of poles 1p - Rated breaking capacity 1.5kA - Magnetic tripping current 108A						





Others

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/

27.10%

(J) Additional environmental information



al: **44%**

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).

\mathcal{O} Environmental impacts

Reference service life time	20 years					
Product category	Circuit-breakers					
Installation elements	Ref GB2CD14 does not require any installation operations, the disposal of the packaging materials are accounted for 100% during the installation phase (including transport to disposal).					
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT					
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					
Geographical representativeness	France					
	[A1 - A3]	[A5]	[B6]	[C1 - C4]		
Energy model used	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; FR		

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	Thermal magnetic Circuit Breaker TeSys GB2CD/GB2CB/GB2CS - GB2CD14							
Impact indicators	Unit	Total	Manufacturing [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to climate change	kg CO2 eq	2.58E+00	5.78E-01	2.42E-02	4.08E-02	1.76E+00	1.83E-01	-2.52E-01
Contribution to climate change-fossil	kg CO2 eq	2.57E+00	5.73E-01	2.42E-02	3.90E-02	1.75E+00	1.83E-01	-2.49E-01
Contribution to climate change-biogenic	kg CO2 eq	1.21E-02	5.18E-03	0*	1.81E-03	4.52E-03	6.35E-04	-2.88E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.02E-08	0*	0*	0*	0*	1.02E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.21E-07	7.05E-08	2.13E-08	2.70E-09	2.58E-08	8.78E-10	-3.72E-08
Contribution to acidification	mol H+ eq	1.48E-02	4.00E-03	1.05E-04	1.62E-04	1.02E-02	3.48E-04	-1.86E-03
Contribution to eutrophication, freshwater	kg (PO4)³⁻eq	1.17E-04	1.15E-05	0*	2.94E-07	8.35E-05	2.17E-05	-8.66E-07
Contribution to eutrophication marine	kg N eq	2.14E-03	5.86E-04	4.82E-05	4.29E-05	1.40E-03	6.32E-05	-1.79E-04
Contribution to eutrophication, terrestrial	mol N eq	2.76E-02	5.96E-03	5.23E-04	3.23E-04	2.01E-02	7.37E-04	-1.88E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	6.61E-03	1.98E-03	1.71E-04	8.64E-05	4.14E-03	2.30E-04	-6.42E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.32E-03	1.32E-03	0*	0*	8.31E-07	6.13E-07	-5.69E-05
Contribution to resource use, fossils	MJ	3.53E+02	9.81E+00	2.93E-01	4.24E-01	3.37E+02	5.16E+00	-4.63E+00
Contribution to water use	m3 eq	4.10E-01	2.13E-01	1.23E-03	1.74E-02	1.27E-01	5.16E-02	-1.33E-01

Inventory flows Indicators			Thermal magn	etic Circuit Brea	iker TeSys GB20	CD/GB2CB/GB2	CS - GB2CD14	
Inventory flows	Un	it 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	3.12E+01	1.99E-02	0*	3.04E-02	3.12E+01	1.57E-02	1.97E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	4.50E-01	4.50E-01	0*	0*	0*	0*	-4.09E-01
Contribution to total use of renewable primary energy resources	s MJ	3.17E+01	4.70E-01	0*	3.04E-02	3.12E+01	1.57E-02	-2.12E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.52E+02	8.82E+00	2.93E-01	4.24E-01	3.37E+02	5.16E+00	-4.63E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	9.81E-01	9.81E-01	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	3.53E+02	9.81E+00	2.93E-01	4.24E-01	3.37E+02	5.16E+00	-4.63E+00
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 freshwater	m³	9.56E-03	4.96E-03	2.85E-05	4.05E-04	2.96E-03	1.20E-03	-3.10E-03
Contribution to hazardous waste disposed	kg	5.43E+00	5.34E+00	0*	0*	2.61E-02	6.20E-02	-4.51E+00
Contribution to non hazardous waste disposed	kg	1.30E+00	9.62E-01	0*	1.33E-01	1.69E-01	3.78E-02	-7.40E-01
Contribution to radioactive waste disposed	kg	4.24E-04	3.29E-04	4.80E-06	1.78E-05	7.09E-05	1.81E-06	-1.01E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	4.98E-02	0*	0*	2.24E-02	0*	2.74E-02	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.

Registration number :	ENVPEP2306023_V1	Drafting rules	PEP-PCR-ed4-2021 09 06					
Verifier accreditation N°		Supplemented by	PSR-0005-ed2-2016 03 29					
Date of issue	2023/05/23	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	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 »								

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2023/05/23