Product Environmental Profile

CVS100E TM100D 3P3D circuit breaker









General information

Representative product CVS100E TM100D 3P3D circuit breaker - LV510845

The Easypact CVS100E TM100D circuit breakers is designed to guarantee the protection of electrical applications.

Protect during 20 years the installation against overloads and short-circuits in circuit with assigned voltage 440V and rated current 100A. This protection is ensured in accordance with the following parameters:

- Number of poles 3p
- Rated breaking capacity 25kA
- Tripping curve: long time, short time and instantanous protections

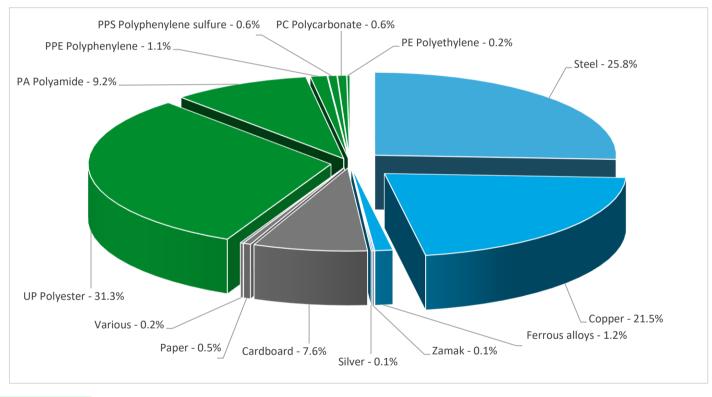
Constituent materials

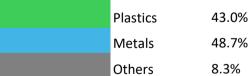
Reference product mass

Description of the product

Functional unit

911.3 g including the product, its packaging and additional elements and accessories





E | 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

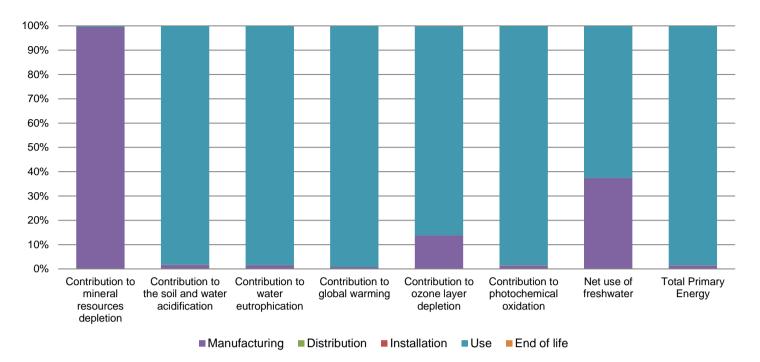


The CVS100E TM100D 3P3D circuit breaker presents the following relevent environmental aspects							
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified						
	Weight and volume of the packaging optimized, based on the European Union's packaging directive						
Distribution	Packaging weight is 61.3 g, consisting of cardboard (88%), plastic (4%), paper (8%)						
	Product distribution optimised by setting up local distribution centres						
Installation	LV510845 does not need any special installation						
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials						
End of life	No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.						
	Based on "ECO'DEEE recyclability and recoverability calculation method" Recyclability potential: 45% (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).						



Reference life time	20 years					
Product category	Circuit-breakers					
Installation elements	LV510845 does not need any special installation					
Use scenario	Load rate: 50% of 100A Use time rate: 30% of 20 year					
Geographical representativeness	China					
	Manufacturing	Installation	Use	End of life		
Energy model used	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		CVS100E TM100D 3P3D circuit breaker - LV510845					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	5.87E-04	5.84E-04	0*	0*	2.41E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	6.06E-01	1.01E-02	5.37E-04	0*	5.95E-01	2.61E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1.60E-01	2.45E-03	1.24E-04	0*	1.57E-01	6.35E-05
Contribution to global warming	kg CO ₂ eq	5.54E+02	4.08E+00	1.18E-01	0*	5.49E+02	9.39E-02
Contribution to ozone layer depletion	kg CFC11 eq	5.08E-06	7.04E-07	0*	0*	4.37E-06	6.08E-09
Contribution to photochemical oxidation	$kg C_2H_4 eq$	7.15E-02	1.06E-03	3.83E-05	0*	7.04E-02	2.77E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	9.80E-01	3.67E-01	0*	0*	6.13E-01	1.05E-04
Total Primary Energy	MJ	9.13E+03	1.37E+02	1.66E+00	0*	8.99E+03	1.29E+00



Optional indicators		CVS100E TM	1100D 3P3D circu	it breaker - LV	/510845		
Impact indicators	Unit	: Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	8.37E+03	7.15E+01	1.65E+00	0*	8.30E+03	1.04E+00
Contribution to air pollution	m³	5.89E+04	1.86E+03	0*	0*	5.70E+04	9.21E+00
Contribution to water pollution	m³	2.80E+04	6.67E+02	1.93E+01	0*	2.73E+04	1.01E+01
Resources use	Unit	: Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	9.79E-02	9.79E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	4.68E+02	6.82E+00	0*	0*	4.61E+02	0*
Total use of non-renewable primary energy resources	MJ	8.66E+03	1.30E+02	1.66E+00	0*	8.53E+03	1.29E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.68E+02	6.54E+00	0*	0*	4.61E+02	0*
Use of renewable primary energy resources used as raw material	MJ	2.84E-01	2.84E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	8.65E+03	1.19E+02	1.66E+00	0*	8.53E+03	1.29E+00
Use of non renewable primary energy resources used as raw material	MJ	1.14E+01	1.14E+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	6.86E+01	4.96E+01	0*	0*	1.77E+01	1.34E+00
Non hazardous waste disposed	kg	1.01E+02	1.66E+00	0*	0*	9.96E+01	0*
Radioactive waste disposed	kg	4.12E-03	8.25E-04	2.98E-06	0*	3.28E-03	6.28E-06
Other environmental information	Unit	: Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5.44E-01	5.90E-02	0*	5.95E-02	0*	4.25E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	3.50E-03	0*	0*	0*	0*	3.50E-03
Exported Energy	MJ	1.91E-04	2.13E-05	0*	1.69E-04	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.4, database version 2022-01 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).

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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
 ENVPEP2210007_V1
 Drafting rules
 PCR-ed3-EN-2015 04 02

 Date of issue
 11/2022
 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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Published by Schneider Electric

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11/2022