Product Environmental Profile

EASYPACT CVS 400-630 - CVS400F TM400D 3P3D

This range consists of all products of Easypact CVS 400-630A family: 400-630F, 400-630H and 400-630N range





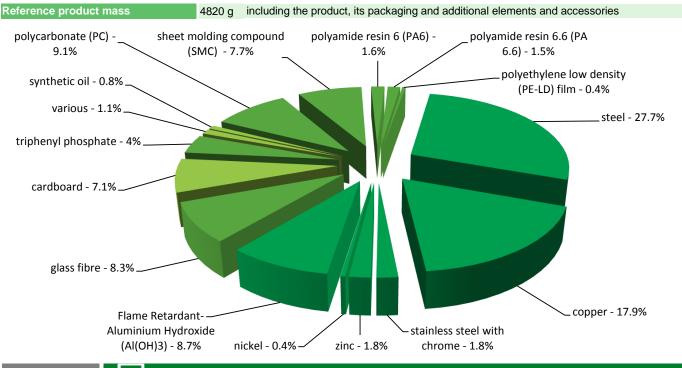




General information

Representative product	EASYPACT CVS 400-630 - CVS400F TM400D 3P3D -LV540306					
Description of the product	The Easypact CVS400 to 630 range of circuit breakers with Thermal-Magnetic trip unit technologis designed to guarantee the protection of all low-voltage electrical applications between 400 A ar 630 A.					
Description of the range	This range consists of all products of Easypact CVS 400-630A family: 400-630F, 400-630H and 400-630N range The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.					
Functional unit	The main function of the Easypact CVS product range is to trip and protect the wires and equipments in the circuit when over current is over 400A (Overload protection), or 2000A(4In)/4000A(10In) (Short circuit current protection) in accordance with the Standard: IEC60947.2 for period of 20 years					

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 8 June 2011) 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) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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

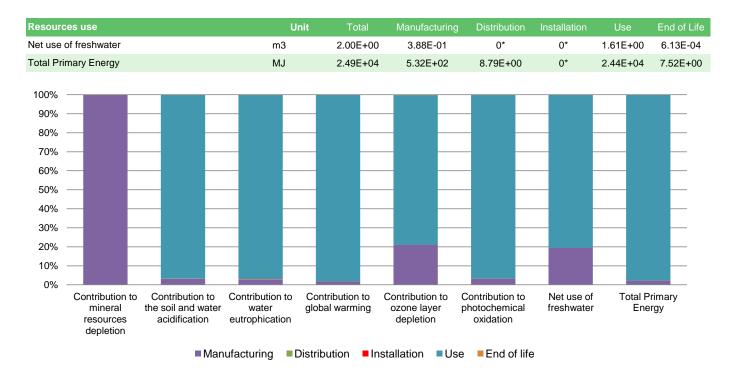
Additional environmental information

The EASYPACT CVS 400-630 - CVS400F TM400D 3P3D presents the following relevent environmental aspects						
Design	Not in scope					
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 379.2 g, consisting of Cardboard (93.1%), PET film (0.4%), Paper (6.5%) 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 product does not require special maintenance operations.					
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains Dismantling parts (2230.7g), Plastic parts with brominated FR (8.2g) that should be separated from the stream of waste so as to optimize end-of-life treatment.					
End of life	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: 61%	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	Passive products - continuous operation					
Installation elements	No special components needed					
Use scenario	Product dissipation is 8.1 W, loading rate is 30% and service uptime percentage is 100%					
Geographical representativeness	China					
Technological representativeness	The Easypact CVS400 to 630 range of circuit breakers with Thermal-Magnetic trip unit technology is designed to guarantee the protection of all low-voltage electrical applications between 400 A and 630 A.					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: SBMLV, 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	EASYPACT CVS 400-630 - CVS400F TM400D 3P3D - LV540306						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.30E-02	1.30E-02	0*	0*	6.34E-06	0*
Contribution to the soil and water acidification	$kg SO_2 eq$	1.62E+00	5.17E-02	2.84E-03	0*	1.56E+00	1.38E-03
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	4.30E-01	1.15E-02	6.54E-04	9.81E-04	4.17E-01	3.74E-04
Contribution to global warming	kg CO ₂ eq	1.47E+03	2.58E+01	6.22E-01	5.27E-01	1.44E+03	6.71E-01
Contribution to ozone layer depletion	kg CFC11 eq	1.46E-05	3.06E-06	0*	0*	1.15E-05	3.07E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1.91E-01	6.00E-03	2.03E-04	1.27E-04	1.85E-01	1.46E-04



Optional indicators		EASYPACT CVS 400-630 - CVS400F TM400D 3P3D - LV540306					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.29E+04	3.58E+02	8.74E+00	0*	2.26E+04	6.19E+00
Contribution to air pollution	m³	1.59E+05	9.43E+03	2.65E+01	0*	1.50E+05	4.88E+01
Contribution to water pollution	m³	7.61E+04	4.11E+03	1.02E+02	2.92E+01	7.18E+04	5.73E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	6.00E-01	6.00E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.22E+03	9.44E+00	0*	0*	1.21E+03	0*
Total use of non-renewable primary energy resources	MJ	2.37E+04	5.23E+02	8.78E+00	0*	2.32E+04	7.52E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.22E+03	9.44E+00	0*	0*	1.21E+03	0*
Use of renewable primary energy resources used as raw material	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.37E+04	4.79E+02	8.78E+00	0*	2.32E+04	7.52E+00
Use of non renewable primary energy resources used as raw material	MJ	4.36E+01	4.36E+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	3.00E+02	2.47E+02	0*	0*	4.65E+01	6.45E+00
Non hazardous waste disposed	kg	2.71E+02	8.51E+00	0*	3.83E-01	2.62E+02	0*
Radioactive waste disposed	kg	1.19E-02	3.18E-03	1.57E-05	2.01E-06	8.62E-03	3.26E-05
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.25E+00	4.13E-01	0*	0*	0*	2.84E+00
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	8.92E-02	1.13E-02	0*	0*	0*	7.78E-02
Exported Energy	MJ	1.50E-02	0*	0*	1.50E-02	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.5, database version 2015-04.

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

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

"Depending on the impact analysis, for the products in this family the impact of the Abiotic depletion (elements, ultimate ultimate reserves) (ADPe for EN15804) may be proportionally extrapolated based on the ratio of the product's and reference product's mass. For all remaining impact categories (Acidification potential of soil and water (total average for Europe) (A for PEP), Eutrophication (fate not incl.) (EP for EN15804), Global warming (GWP100) (GWP for EN15804), Ozone layer depletion ODP steady state (ODP for EN15804), Photochemical oxidation (high NOx) (POCP for EN15804), Net use of freshwater (NUFW) and Total Primary Energy (TPE)) the impacts may be proportionally extrapolated based on the ratio of the product's and reference product's electricity use".

Grouping of range done as per the function (Circuit breaking and tripping).

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 N°	SCHN-00014-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02		
Verifier accreditation N°	VH25	Supplemented by	PSR-0005-ed1-2012 12 11		
Date of issue	06/2016	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).

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.)

Environmental data in alignment with EN 15804: 2012 + A1: 2013

PEP eco PASS PORT

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Published by Schneider Electric

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06/2016