Product Environmental Profile

EasyPact EXE Vacuum Circuit Breaker up to 17.5kV



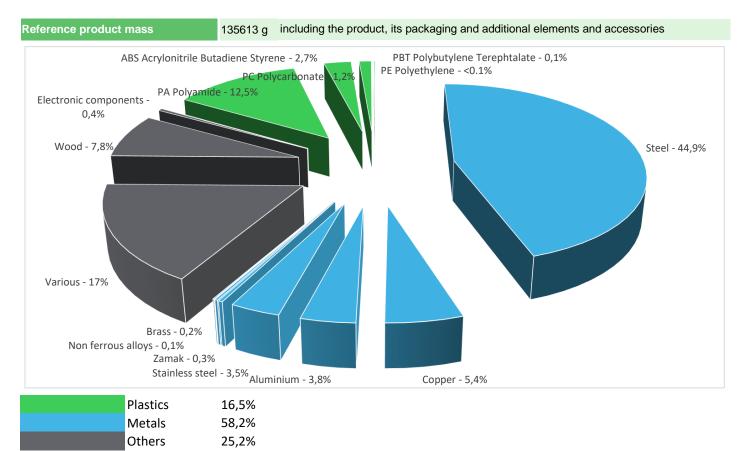




General information

Representative product	EasyPact EXE Vacuum Circuit Breaker up to 17.5kV				
Description of the product	The main purpose of the product is to distribute medium voltage electricity for 20 years, 24 hours day.				
Functional unit	Protect during 20 years the installation against overloads and short-circuits in circuit with assigned voltage U and rated current In. This protection is ensured in accordance with the following parameters: - Number of poles Np - Rated breaking capacity Icn - Tripping curve Cd with : U = 17,5 kV In = 31,5 kA Np = 3 Ir = 2500 A				

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 EXE Vacuum Circuit Breaker up to 17.5kV presents the following relevent environmental aspects							
Design	No Ecodesign						
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 10630,6 g, consisting of wood and cardboard 7,6%						
	Product distribution optimised by setting up local distribution centres						
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 Electronic 153g 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: 63% 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).						

\mathcal{D} Environmental impacts

Reference life time	Based on the PSR, the reference life time used for the current life cycle assessment is 20 years. However, the product is supported for 30 years.					
Product category	Circuit-breakers					
Installation elements	No special components needed					
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT					
Geographical representativeness	Worlwide					
Technological representativeness	The main purpose of the product is to distribute medium voltage electricity for 20 years, 24 hours per day.					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: France & India	Electricity mix AC; Europe consistent; consumption mix, at power plant; US	Electricity mix AC; Europe consistent; consumption mix, at power plant; US	Electricity mix AC; Europe consistent; consumption mix, at power plant; US		

Compulsory indicators	EasyPact EXE Vacuum Circuit Breaker up to 17.5kV - EasyPact EXE						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1,01E-01	1,01E-01	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	3,61E+00	2,96E+00	7,99E-02	5,79E-03	5,24E-01	3,73E-02
Contribution to water eutrophication	kg PO4 ³⁻ eq	5,74E-01	4,04E-01	1,84E-02	2,82E-03	1,39E-01	1,01E-02
Contribution to global warming	kg CO ₂ eq	1,31E+03	7,37E+02	1,75E+01	1,13E+01	5,29E+02	1,81E+01
Contribution to ozone layer depletion	kg CFC11 eq	1,10E-04	8,82E-05	3,54E-08	2,35E-08	2,13E-05	8,25E-07
Contribution to photochemical oxidation	$kg \ C_2 H_4 \ eq$	3,38E-01	2,32E-01	5,70E-03	2,59E-03	9,41E-02	3,93E-03

SCHN-00259-V01.01-EN - PEP ECOPASSPORT® - EasyPact EXE Vacuum Circuit Breaker up to 17.5kV



Optional indicators		EasyPact EX	E Vacuum Circui	t Breaker up t	o 17.5kV - Eas	syPact EXE	
mpact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,82E+04	9,43E+03	2,46E+02	1,51E+01	8,34E+03	1,67E+02
Contribution to air pollution	m³	2,51E+05	1,94E+05	7,44E+02	2,65E+02	5,45E+04	1,32E+03
Contribution to water pollution	m³	8,04E+04	5,12E+04	2,88E+03	1,20E+02	2,46E+04	1,55E+03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,25E+00	1,25E+00	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	4,21E+02	4,02E+02	3,30E-01	2,52E-01	1,81E+01	2,04E-01
Total use of non-renewable primary energy resources	MJ	2,15E+04	1,18E+04	2,47E+02	1,18E+01	9,24E+03	1,83E+02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,99E+02	1,80E+02	3,30E-01	2,52E-01	1,81E+01	2,04E-01
Use of renewable primary energy resources used as raw material	MJ	2,22E+02	2,22E+02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,07E+04	1,11E+04	2,47E+02	1,18E+01	9,24E+03	1,83E+02
Use of non renewable primary energy resources used as raw material	MJ	7,64E+02	7,64E+02	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	7,84E+03	7,63E+03	0*	0*	4,24E+01	1,72E+02
Non hazardous waste disposed	kg	5,64E+02	4,80E+02	6,22E-01	8,47E+00	7,49E+01	5,62E-01
Radioactive waste disposed	kg	3,21E-01	2,93E-01	4,43E-04	2,94E-04	2,66E-02	8,80E-04
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	9,38E+01	1,25E+01	0*	3,04E+00	0*	7,82E+01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2,09E+00	0*	0*	0*	0*	2,09E+00
Exported Energy	MJ	7,26E+00	6,83E-01	0*	6,58E+00	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.6.0.1, database version 2016-11 in compliance with ISO14044.

The manufacturing phase 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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Internal	nternal External X					
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)						
PEP are compliant with XP C08-100-1 :2014						
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 »						
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