Product Environmental Profile

VarPlus Can

Schneider Electric

Representative product

Description of the produ

Functional unit

Reference product mass

Products of this range are d
2011) and do not contain, o
(polybrominated biphenyls -

As the products of the range
they can be incorporated wit

Details of ROHS and REAC
http://www2.schneider-electr

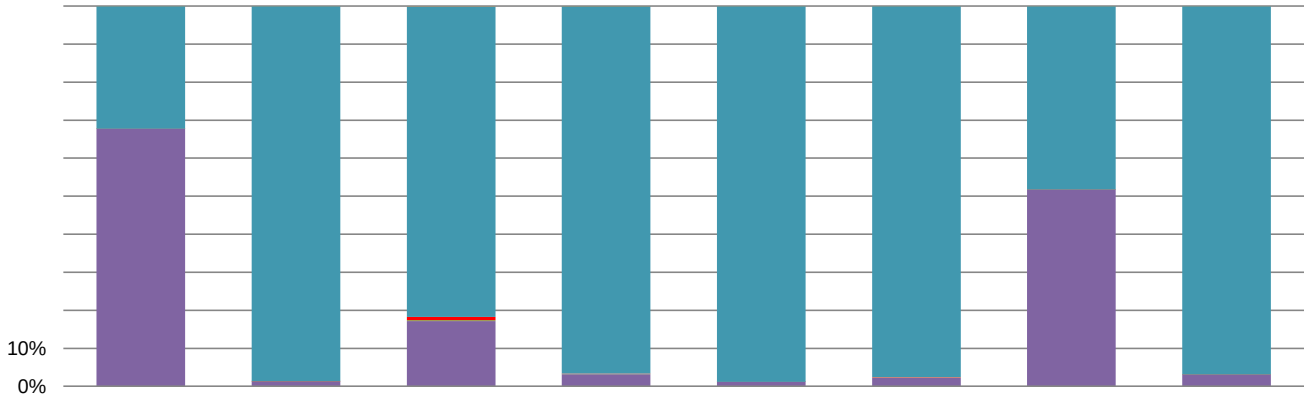
Additional environmental information

The VarPlus Can presents the following relevent environmental aspects	
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 714.7 g, consisting of 99% cardboard 1% PE film Packaging recycled materials is 100% of total packaging mass. Product distribution optimised by setting up local distribution centres
Installation	VarPlus Can capacitor need to follow the instruction as per the installation guide available along with every product. This document can be downloaded from internet also for the customers. It is very important to keep the environmental condition and ventilation needs of this product as per what is mentioned in the instruction manual
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials treatment process. Recyclability potential: **62%** (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental impacts

Reference life time	10 years			
Product category	Passive products - continuous operation			
Installation elements	No special components needed			
Use scenario	Product dissipation is 15 W full load, loading rate is 30% and service uptime percentage is 100% The product is in active mode for ~80% in fixed compensation applications and 50% in automatic PF control applications with a power use of <0.5W/KVAr			
Geographical representativeness	South Asia			
Technological representativeness	VarPlus Can are low voltage cylindrical capacitors specially designed to deliver high performance in harsh conditions to ensure 30% extended life compared to standard capacitors. They can be used in fixed and automatic Power Factor correction systems, in networks with frequently switched loads and harmonic disturbances. - High life expectancy up to 130,000 hours. - Voltage up to 830 V - High power ratings from 1 to 50 kvar - Operating temperature up to 55 °C - High inrush current withstand up to 250 x In - Mounting Indoor, Upright as well as Horizontal - Compliant with standards IEC 60831-1 and -2. VarPlus Can capacitors must be selected depending on the working conditions expected during their lifetime. Since the harmonics are caused by non-linear loads, an indicator for the magnitude of harmonics is the ratio NLL of the total power of non-linear loads to the power supply transformer rating.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: India	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators	VarPlus Can - BLRCH300A360B40						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	8,78E-05	5,95E-05	1,91E-08	0*	2,83E-05	8,95E-09
Contribution to the soil and water acidification	kg SO_2 eq	4,76E+00	6,30E-02	2,18E-03	0*	4,69E+00	8,99E-04
Contribution to water eutrophication	kg PO_4^{3-} eq	2,16E-01	3,70E-02	5,02E-04	1,90E-03	1,76E-01	2,51E-04
Contribution to global warming	kg CO_2 eq	6,43E+02	2,04E+01	4,77E-01	9,82E-01	6,21E+02	4,76E-01
Contribution to ozone layer depletion	kg CFC11 eq	1,53E-04	1,78E-06	0*	0*	1,51E-04	2,01E-08
Contribution to photochemical oxidation	kg C_2H_4 eq	2,28E-01	5,18E-03	1,55E-04	2,35E-04	2,22E-01	9,39E-05
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3,36E+00	1,74E+00	0*	0*	1,62E+00	4,10E-04
Total Primary Energy	MJ	1,11E+04	3,41E+02	6,39E+00	0*	1,07E+04	4,26E+00



Optional indicators	VarPlus Can - BLRCH300A360B40						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	6,75E+03	3,45E+02	6,70E+00	0*	6,39E+03	4,00E+00
Contribution to air pollution	m³	2,82E+04	1,49E+03	2,03E+01	3,51E+00	2,66E+04	3,16E+01
Contribution to water pollution	m³	2,84E+04	2,17E+03	7,84E+01	5,26E+01	2,60E+04	3,81E+01
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3,47E+01	3,47E+01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	9,14E+02	1,45E+01	0*	0*	9,00E+02	0*
Total use of non-renewable primary energy resources	MJ	1,01E+04	3,27E+02	6,38E+00	0*	9,81E+03	4,25E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9,14E+02	1,43E+01	0*	0*	9,00E+02	0*
Use of renewable primary energy resources used as raw material	MJ	2,46E-01	2,46E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,00E+04	2,06E+02	6,38E+00	0*	9,81E+03	4,25E+00
Use of non renewable primary energy resources used as raw material	MJ	1,20E+02	1,20E+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*

	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
	kg	9,77E+00	5,64E+00	0*	0*	0*	4,13E+00
	kg	2,33E+03	7,54E+00	0*	7,16E-01	2,32E+03	0*
	kg	1,90E+00	4,86E-03	0*	0*	1,89E+00	0*

	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
	kg	2,13E+00	2,72E-01	0*	0*	0*	1,86E+00
	kg	0,00E+00	0*	0*	0*	0*	0*
	kg	7,33E-02	8,82E-03	0*	0*	0*	6,45E-02
	MJ	5,16E-03	0*	0*	5,16E-03	0*	0*

Date of issue 05/2016

Validity period 5 years

Information and reference documents www.pep-ecopassport.org

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal X External

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 »

Schneider Electric Industries SAS

CATHERINE COLIN

catherine.colin@fr.schneider-electric.com

35, rue Joseph Monier

CS 30323

F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439

www.schneider-electric.com

Published by Schneider Electric

ENVPEP1612005_V1

05/2016