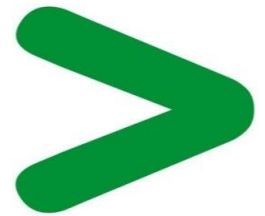


# Product Environmental Profile

## EP MVS SD 3200A 65KA 4P EF 220VDC fixed electrical switch disconnect





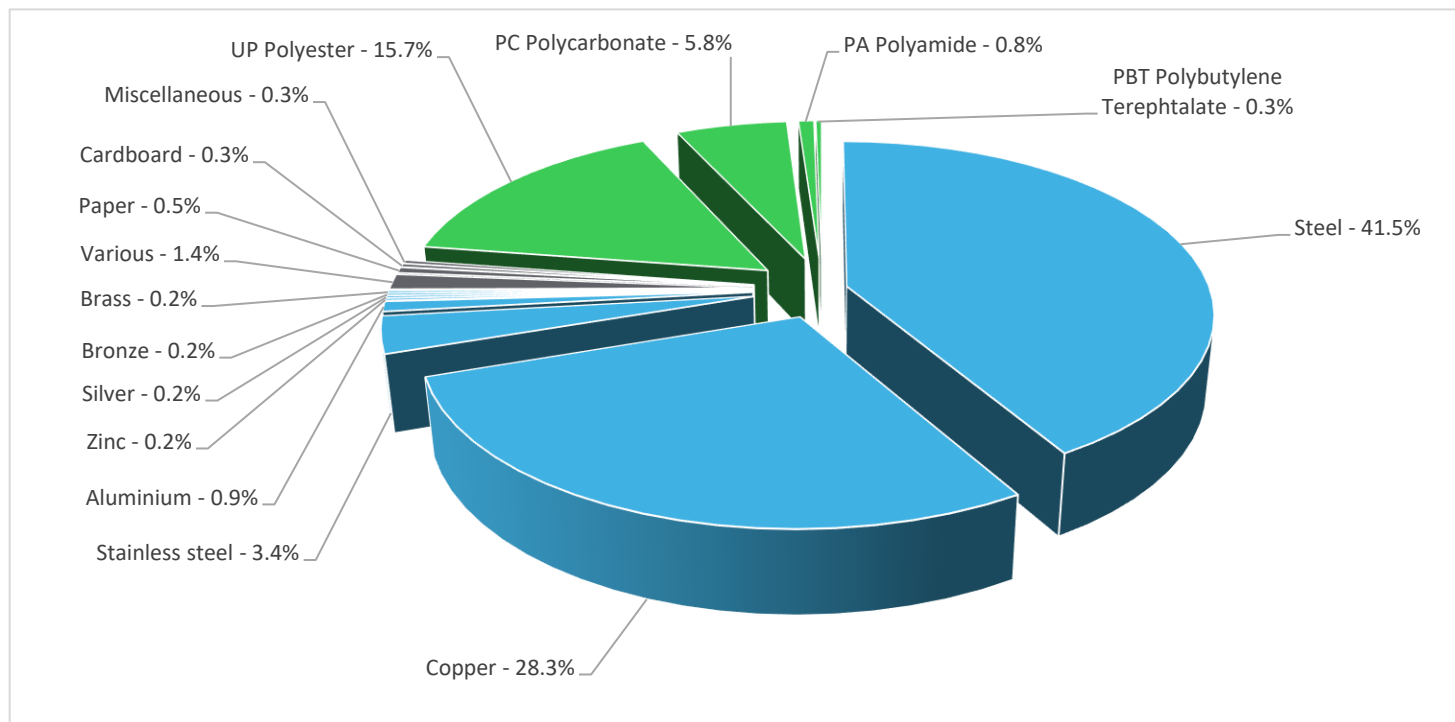
## General information

<b>Representative product</b>	EP MVS SD 3200A 65KA 4P EF 220VDC fixed electrical switch disconnecter - MVS32DA14F004
<b>Description of the product</b>	The Easypact MVSDA1 four pole fixed switch-disconnector is designed to be used in PV2 and BPS system with assigned voltage up to 1500VDC and rated current of 3200A.
<b>Functional unit</b>	Turn off all or part of an installation by separating the installation or part of the installation of all electrical energy or earth, for safety reasons with a 1500VDC rated voltage and 3200A rated current. In ensuring isolation characterized by 1600V rated insulation level. This function is provided for 20 years.



## Constituent materials

**Reference product mass** 54434 g including the product, its packaging and additional elements and accessories



Plastics	22.6%
Metals	74.9%
Others	2.5%



## 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 EU 2015/863) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium, flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE), or phthalates (Bis(2-ethylhexyl) phthalate - DEHP, Butyl benzyl 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>



## Additional environmental information

The EP MVS SD 3200A 65KA 4P EF 220VDC fixed electrical switch disconnecter presents the following relevant environmental aspects

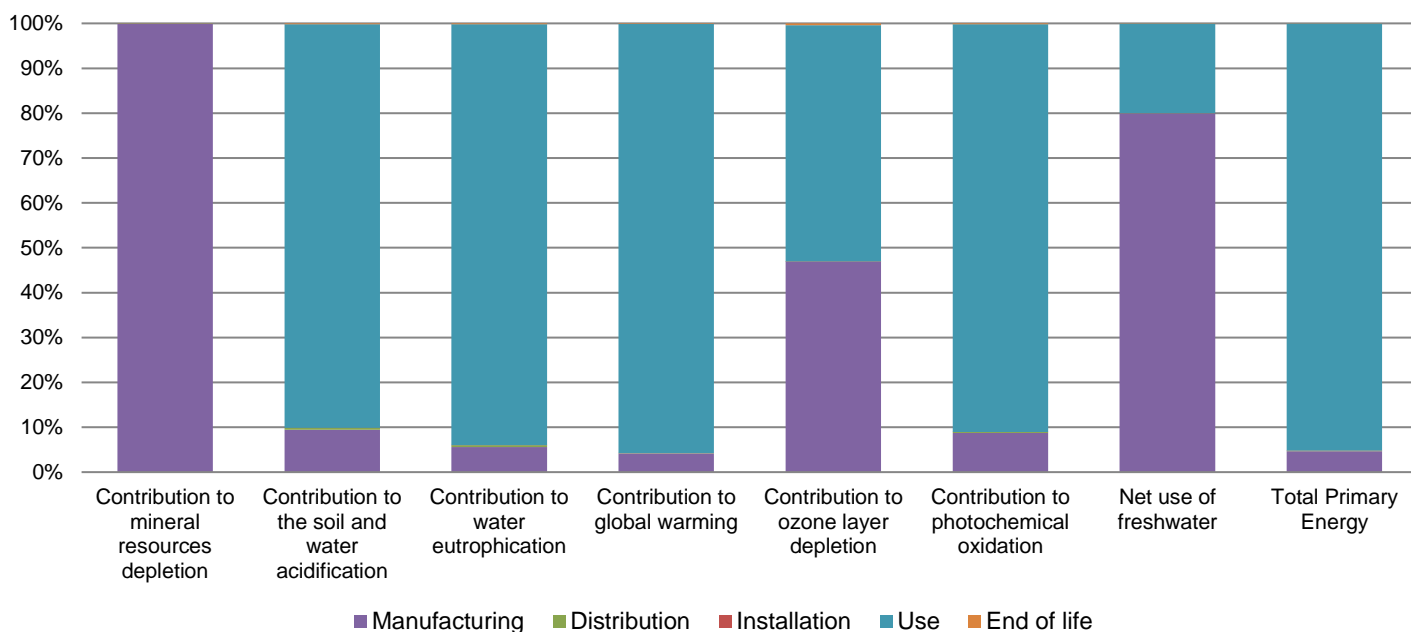
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 434 g, consisting of Cardboard(43.9%),PE film (1.2%),Paper (54.9%),
<b>Installation</b>	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
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  This product contains Electronic cards (53.7g), PC FR(17) (854.0g) that should be separated from the stream of waste so as to optimize end-of-life treatment.  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  <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>  Recyclability potential: <b>69%</b> 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

<b>Reference life time</b>	20 years			
<b>Product category</b>	Disconnectors - Low voltage			
<b>Installation elements</b>	No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.			
<b>Use scenario</b>	Load rate: 50% Use time rate (closed unit): 30% of RLT			
<b>Geographical representativeness</b>	China			
<b>Technological representativeness</b>	The Easyact MVSDA1 four pole fixed switch-disconnector is designed to be used in PV2 and BPS system with assigned voltage up to 1500VDC and rated current of 3200A.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	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		EP MVS SD 3200A 65KA 4P EF 220VDC fixed electrical switch disconnecter - MVS32DA14F004					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.79E-01	2.79E-01	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	7.57E+00	7.14E-01	3.21E-02	0*	6.81E+00	1.65E-02
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	1.92E+00	1.08E-01	7.39E-03	0*	1.80E+00	4.26E-03
Contribution to global warming	kg CO <sub>2</sub> eq	6.57E+03	2.73E+02	7.02E+00	0*	6.28E+03	7.14E+00
Contribution to ozone layer depletion	kg CFC11 eq	9.50E-05	4.46E-05	1.42E-08	0*	5.00E-05	3.63E-07
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	8.86E-01	7.71E-02	2.29E-03	0*	8.05E-01	1.75E-03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	3.51E+01	2.81E+01	0*	0*	7.01E+00	7.05E-03
Total Primary Energy	MJ	1.08E+05	5.05E+03	9.93E+01	0*	1.03E+05	8.15E+01



Optional indicators		EP MVS SD 3200A 65KA 4P EF 220VDC fixed electrical switch disconnecter - MVS32DA14F004						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	9.78E+04	2.75E+03	9.87E+01	0*	9.49E+04	6.54E+01	
Contribution to air pollution	m³	7.93E+05	1.40E+05	2.99E+02	0*	6.52E+05	5.82E+02	
Contribution to water pollution	m³	3.45E+05	3.04E+04	1.15E+03	0*	3.12E+05	6.65E+02	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	2.72E+00	2.72E+00	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	5.48E+03	2.09E+02	0*	0*	5.27E+03	0*	
Total use of non-renewable primary energy resources	MJ	1.03E+05	4.84E+03	9.92E+01	0*	9.75E+04	8.14E+01	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.47E+03	2.01E+02	0*	0*	5.27E+03	0*	
Use of renewable primary energy resources used as raw material	MJ	8.13E+00	8.13E+00	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.02E+05	4.44E+03	9.92E+01	0*	9.75E+04	8.14E+01	
Use of non renewable primary energy resources used as raw material	MJ	4.03E+02	4.03E+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	4.97E+03	4.69E+03	0*	0*	2.02E+02	7.36E+01	
Non hazardous waste disposed	kg	1.29E+03	1.52E+02	2.50E-01	0*	1.14E+03	2.50E-01	
Radioactive waste disposed	kg	1.18E-01	7.94E-02	1.78E-04	0*	3.75E-02	3.91E-04	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	4.41E+01	5.43E+00	0*	4.28E-01	0*	3.82E+01	
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	6.29E-01	0*	0*	0*	0*	6.29E-01	
Exported Energy	MJ	1.36E-03	1.28E-04	0*	1.23E-03	0*	0*	

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

Life cycle assessment performed with EIME version EIME v5.9.3, database version 2020-12 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).

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	ENVPEP2108020_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	11/2021	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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