

Product Environmental Profile

EP MVS CB 1600A 50kA 3P EDO 240VAC ETA6 drawout electrical circuit breaker





General information

Representative product

EP MVS CB 1600A 50kA 3P EDO 240VAC ETA6 drawout electrical circuit breaker - MVS16N3NW6A

Description of the product

The EasyPact MVS Air Circuit Breaker range is designed to guarantee the protection of electrical distribution systems

Functional unit

Protect during 20 years the installation against overloads and short-circuits in circuit with assigned voltage 690V AC and rated current 1600A at 40 °C. This protection is ensured in accordance with the following parameters:

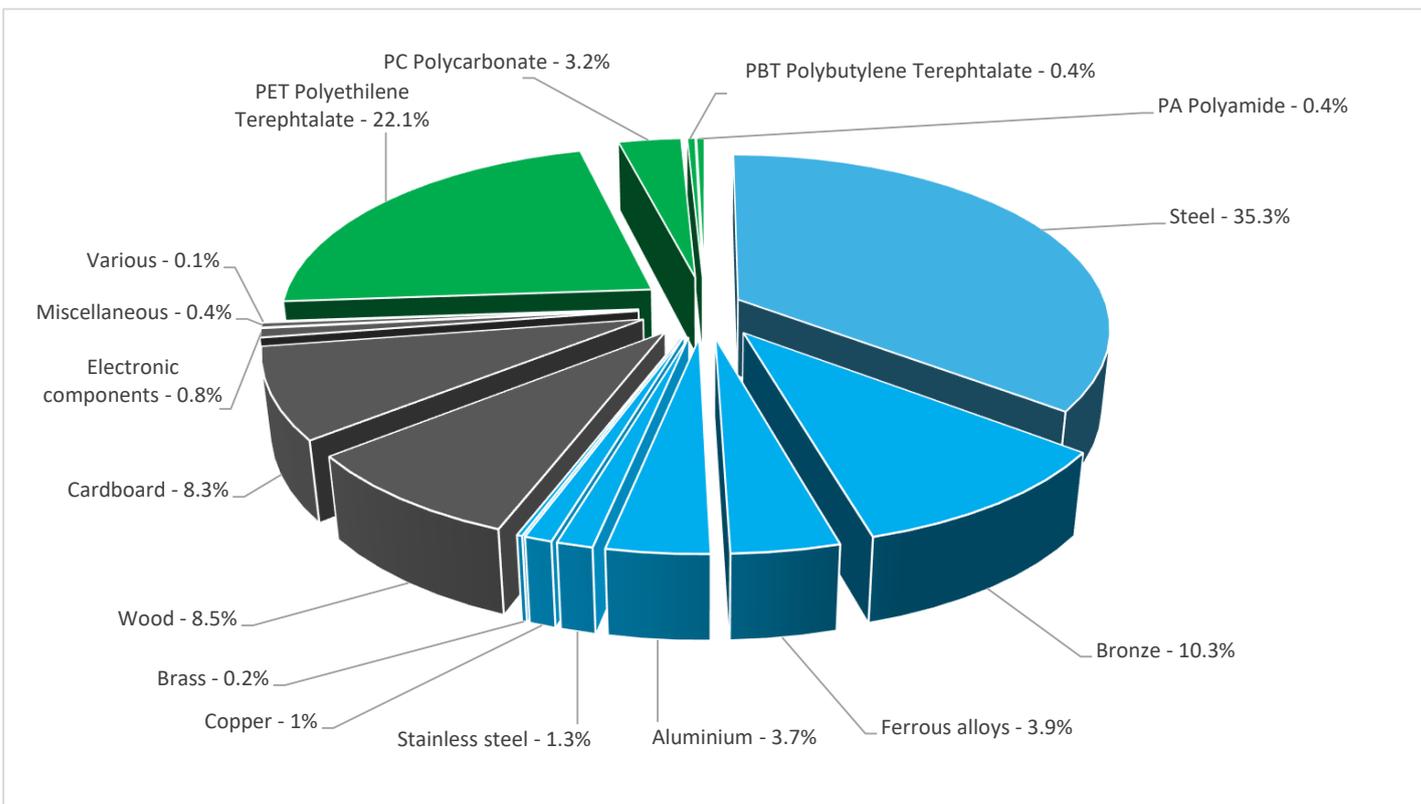
- Number of poles 3
- Rated breaking capacity 50KA
- Tripping curve Short time short-circuit protection, Overload protection (long time), Earth fault, Instantaneous short-circuit protection



Constituent materials

Reference product mass

36346.2 g including the product, its packaging and additional elements and accessories



	Plastics	26.1%
	Metals	55.8%
	Others	18.1%

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>

Additional environmental information

The EP MVS CB 1600A 50kA 3P EDO 240VAC ETA6 drawout electrical circuit breaker presents the following relevant environmental aspects

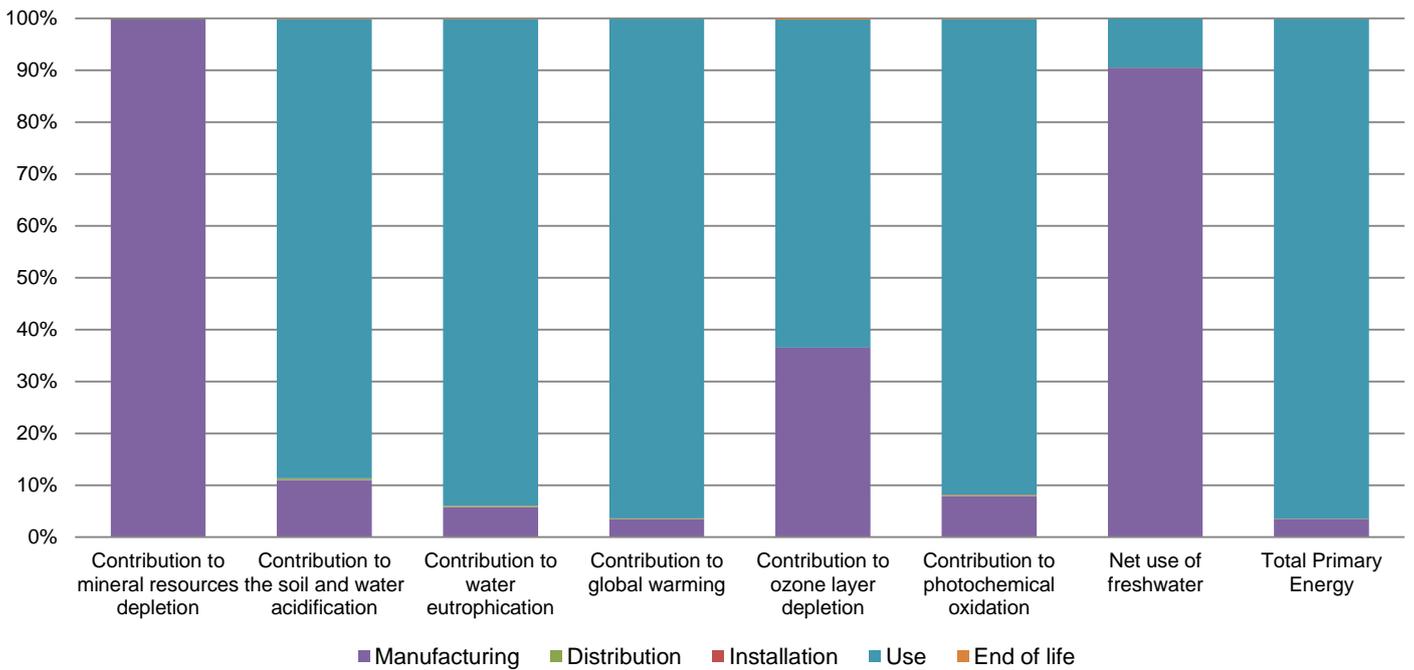
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 6346.2 g, consisting of paper(0.2%), cardboard 49.4%), wood (50.4%) Product distribution optimised by setting up local distribution centres
Installation	The product does not require special installation operations.
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 This product contains electronic card (191.5g), and batteries (9.6g) 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 http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: 84% 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	Circuit-breakers			
Installation elements	Ref MVS16N3NW6A does not require any installation operations			
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT			
Geographical representativeness	China			
Technological representativeness	The EasyPact MVS Air Circuit Breaker range is designed to guarantee the protection of electrical distribution systems			
Energy model used	Manufacturing	Installation	Use	End of life
	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

ENVPEP2206022_V1 - Product Environmental Profile - EP MVS CB 1600A 50kA 3P EDO 240VAC ETA6 drawout electrical circuit breaker

Compulsory indicators		EP MVS CB 1600A 50kA 3P EDO 240VAC ETA6 drawout electrical circuit breaker - MVS16N3NW6A						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to mineral resources depletion	kg Sb eq	2.62E-02	2.61E-02	0*	0*	2.70E-05	0*	
Contribution to the soil and water acidification	kg SO ₂ eq	7.52E+00	8.28E-01	2.14E-02	2.46E-03	6.66E+00	9.14E-03	
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1.88E+00	1.08E-01	4.93E-03	1.02E-03	1.76E+00	2.26E-03	
Contribution to global warming	kg CO ₂ eq	6.38E+03	2.21E+02	4.69E+00	3.57E+00	6.15E+03	3.49E+00	
Contribution to ozone layer depletion	kg CFC11 eq	7.74E-05	2.83E-05	9.50E-09	0*	4.89E-05	2.01E-07	
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	8.59E-01	6.78E-02	1.53E-03	8.36E-04	7.87E-01	9.78E-04	
Resources use		Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	7.20E+01	6.51E+01	0*	0*	6.86E+00	0*	
Total Primary Energy	MJ	1.04E+05	3.61E+03	6.63E+01	0*	1.01E+05	4.57E+01	



Optional indicators		EP MVS CB 1600A 50kA 3P EDO 240VAC ETA6 drawout electrical circuit breaker - MVS16N3NW6A						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	9.52E+04	2.18E+03	6.59E+01	0*	9.29E+04	3.67E+01	
Contribution to air pollution	m ³	6.81E+05	4.26E+04	1.99E+02	8.68E+01	6.38E+05	3.24E+02	
Contribution to water pollution	m ³	3.26E+05	1.95E+04	7.71E+02	6.19E+01	3.06E+05	3.59E+02	
Resources use		Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.49E+01	1.49E+01	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	5.42E+03	2.62E+02	0*	0*	5.16E+03	0*	
Total use of non-renewable primary energy resources	MJ	9.89E+04	3.35E+03	6.62E+01	0*	9.54E+04	4.56E+01	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.39E+03	2.33E+02	0*	0*	5.16E+03	0*	
Use of renewable primary energy resources used as raw material	MJ	2.95E+01	2.95E+01	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.88E+04	3.28E+03	6.62E+01	0*	9.54E+04	4.56E+01	
Use of non renewable primary energy resources used as raw material	MJ	6.72E+01	6.72E+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*	

ENVPEP2206022_V1 - Product Environmental Profile - EP MVS CB 1600A 50kA 3P EDO 240VAC ETA6 drawout electrical circuit breaker

Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	1.84E+03	1.61E+03	0*	0*	1.98E+02	3.64E+01
Non hazardous waste disposed	kg	1.28E+03	1.61E+02	1.67E-01	2.58E+00	1.12E+03	1.42E-01
Radioactive waste disposed	kg	1.28E-01	9.07E-02	1.19E-04	9.32E-05	3.67E-02	2.19E-04
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.39E+01	3.45E+00	0*	4.05E+00	0*	2.64E+01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.84E-01	0*	0*	0*	0*	1.84E-01
Exported Energy	MJ	2.21E+00	2.07E-01	0*	2.00E+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 v5.9.3, 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).

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	ENVPEP2206022_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	08/2022	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) »			

Schneider Electric Industries SAS

Country Customer Care Center
<http://www.schneider-electric.com/contact>

35, rue Joseph Monier
 CS 30323
 F- 92506 Rueil Malmaison Cedex
 RCS Nanterre 954 503 439
 Capital social 896 313 776 €

www.schneider-electric.com

ENVPEP2206022_V1

Published by Schneider Electric

© 2019 - Schneider Electric – All rights reserved

08/2022