

Product Environmental Profile

Easy9 XM - MINIATURE CIRCUIT BREAKER





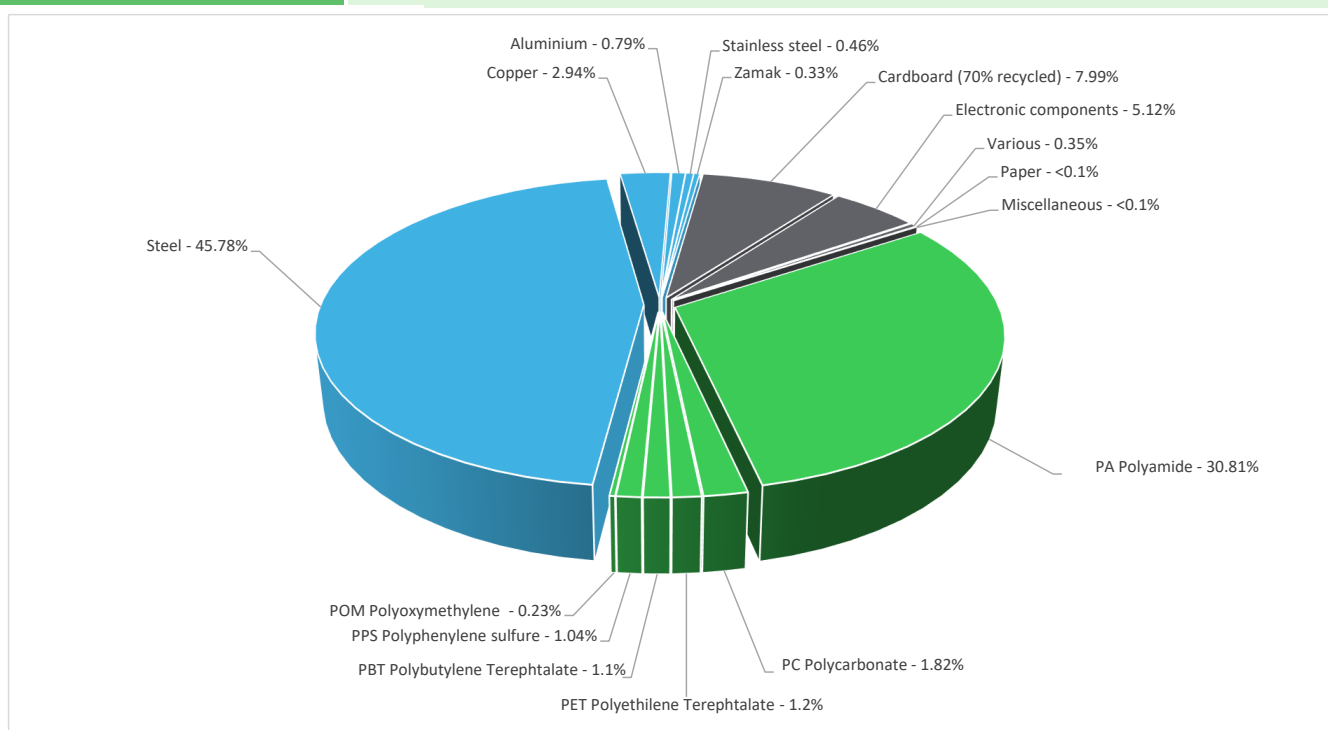
General information

Reference product	Easy9 XM - MINIATURE CIRCUIT BREAKER - EZ9F56116
Description of the product	The Easy9 mono Miniature circuit breaker provides protection against short circuit and a protection of cable against overloads.
Functional unit	<p>Protect during 20 years the installation against overloads and short-circuits in circuit with assigned voltage [U] 230V AC and rated current [In] 16A. This protection is ensured in accordance with the following parameters:</p> <ul style="list-style-type: none"> - Number of poles Np - 1P - Rated breaking capacity Icn - 6000A - Tripping curve Cd - C - Degree of protection against ingress of solid foreign objects and water with harmful effects in accordance with the standard IEC 60529 - IP20 <p>This product complies with IEC 60898-1 standard</p>



Constituent materials

Reference product mass	114.8 g including the product, its packaging and additional elements and accessories
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Metals	50.3%
Plastics	36.2%
Others	13.5%



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
<https://www.se.com/ww/en/work/support/green-premium/>



Additional environmental information

End Of Life	Recyclability potential:	59%	Recyclability rate has been calculated based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).
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Environmental impacts

Reference service life time	20 years			
Product category	Circuit-breakers			
Installation elements	The product does not require special installation procedure and requires little to no energy to install.			
Use scenario	Load rate: 50% of 16A (In) Use time rate: 30% of the time over 20 years (RLT)			
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.			
Geographical representativeness	India			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; IN	Electricity Mix; Production mix; Low voltage; IN	Electricity Mix; Production mix; Low voltage; IN	Electricity Mix; Production mix; Low voltage; IN

Detailed results, including all the impact indicators mentioned in PCRed4, are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

Mandatory Indicators			Easy9 XM - MINIATURE CIRCUIT BREAKER - EZ9F56116					
Impact indicators	Unit	Total	Manufacturing [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Loads and Benefits [D]
Contribution to climate change	kg CO2 eq	4.85E+01	6.44E-01	5.67E-02	1.71E-02	4.75E+01	2.92E-01	-2.35E-01
Contribution to climate change-fossil	kg CO2 eq	4.84E+01	6.38E-01	5.67E-02	1.64E-02	4.74E+01	2.91E-01	-2.34E-01
Contribution to climate change-biogenic	kg CO2 eq	1.26E-02	5.99E-03	0*	7.62E-04	4.61E-03	1.27E-03	-1.70E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.17E-08	0*	0*	0*	0*	1.17E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.61E-07	8.55E-08	8.68E-11	1.13E-09	2.73E-07	1.94E-09	-3.49E-08
Contribution to acidification	mol H+ eq	3.68E-01	4.05E-03	3.60E-04	6.80E-05	3.63E-01	9.36E-04	-1.91E-03
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	3.88E-05	9.29E-06	2.12E-08	1.24E-07	4.19E-06	2.52E-05	-4.37E-07
Contribution to eutrophication marine	kg N eq	3.95E-02	4.57E-04	1.69E-04	1.80E-05	3.85E-02	3.25E-04	-1.43E-04
Contribution to eutrophication, terrestrial	mol N eq	4.52E-01	4.99E-03	1.85E-03	1.36E-04	4.43E-01	1.43E-03	-1.64E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.31E-01	1.66E-03	4.68E-04	3.63E-05	1.28E-01	4.82E-04	-5.93E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.29E-04	1.28E-04	0*	0*	3.21E-07	7.08E-07	-6.96E-05
Contribution to resource use, fossils	MJ	7.71E+02	1.16E+01	7.90E-01	1.78E-01	7.47E+02	1.15E+01	-5.11E+00
Contribution to water use	m3 eq	5.84E+00	0*	0*	7.32E-03	2.10E+00	3.80E+00	-1.19E-01

Inventory flows Indicators			Easy9 XM - MINIATURE CIRCUIT BREAKER - EZ9F56116					
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Loads and Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.18E+01	1.87E-01	0*	1.28E-02	4.16E+01	3.37E-02	-2.91E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	6.21E-02	6.21E-02	0*	0*	0*	0*	-5.15E-02
Contribution to total use of renewable primary energy resources	MJ	4.19E+01	2.49E-01	0*	1.28E-02	4.16E+01	3.37E-02	-8.06E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7.70E+02	1.04E+01	7.90E-01	1.78E-01	7.47E+02	1.15E+01	-5.11E+00

Contribution to use of non renewable primary energy resources used as raw material	MJ	1.19E+00	1.19E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	7.71E+02	1.16E+01	7.90E-01	1.78E-01	7.47E+02	1.15E+01	-5.11E+00
Contribution to use of secondary material	kg	7.24E-03	7.24E-03	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m³	1.47E-01	0*	0*	1.70E-04	4.89E-02	9.93E-02	-2.77E-03
Contribution to hazardous waste disposed	kg	7.90E+00	6.33E+00	0*	0*	1.46E+00	1.10E-01	-5.55E+00
Contribution to non hazardous waste disposed	kg	8.87E+00	5.26E-01	1.99E-03	5.58E-02	8.24E+00	4.20E-02	-2.64E-01
Contribution to radioactive waste disposed	kg	5.66E-04	2.59E-04	1.42E-06	7.48E-06	2.96E-04	2.08E-06	-9.70E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	6.69E-02	0*	0*	9.42E-03	0*	5.75E-02	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

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

Life cycle assessment performed with EIME version 5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCR_{ed4}, are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

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 :	ENVPEP1504005_V3-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
Validity period	5 years	Supplemented by	PSR-0005-ed2-2016 03 29
Date of issue	03/2024	Information and reference documents	www.pep-ecopassport.org
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
Internal <input checked="" type="checkbox"/> External <input type="checkbox"/>			
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)			
PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019			
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. Type II environmental declarations »			

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