

Product Environmental Profile

MAX9 MAIN ISOLATOR SWITCH

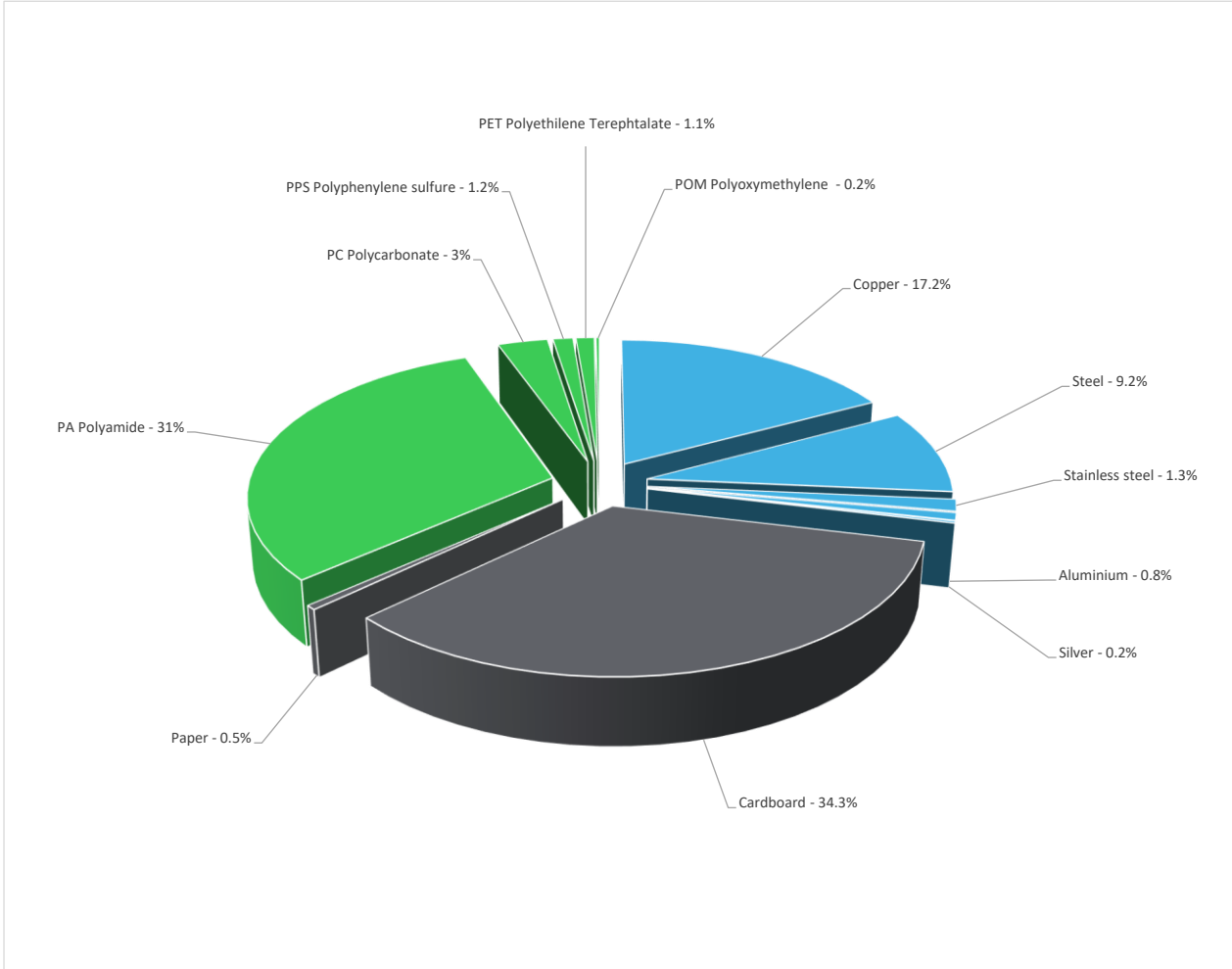


General information

Reference product	MAX9 MAIN ISOLATOR SWITCH - MX9MS1100
Description of the product	The main purpose of SLIM MAX9 MAIN ISOLATOR SWITCH disconnecter is to open and close supply of circuits under load.
Functional unit	To establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current Ith - 100A with 1P, including any conditions specified for the operating voltage Ue - 415V AC and a current for short-circuit Icw - 6000A with the frequency of 50/60Hz. It has an IP20 degree of protection (as per IEC 60529 standard) and becomes IP40 (as per IEC 62262 standard) once in modular enclosure. The product complies IEC 61009, EN/IEC 61009 & AS/NZS 61009 standards.

Constituent materials

Reference product mass	124 g	including the product, its packaging and additional elements and accessories
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Plastics	36.30%
Metals	28.70%
Others	34.80%

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:	43%	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	Switches			
Installation elements	The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).			
Use scenario	Full load is 6,7 W power losses. For 20 years, the product is having the load rate is 50% of In; and a use rate of 30% of the time with a power losses of 1,67 W.			
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	Australia			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; CN	Electricity Mix; Production mix; Low voltage; AUS	Electricity Mix; Production mix; Low voltage; AUS	Electricity Mix; Production mix; Low voltage; AUS

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			MAX9 MAIN ISOLATOR SWITCH - MX9MS1100					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	2.38E+01	1.08E+00	3.66E-02	7.85E-02	2.24E+01	2.17E-01	-2.09E-01
Contribution to climate change-fossil	kg CO2 eq	2.38E+01	1.07E+00	3.66E-02	7.50E-02	2.24E+01	2.13E-01	-2.02E-01
Contribution to climate change-biogenic	kg CO2 eq	1.80E-02	1.02E-02	0*	3.49E-03	0*	4.35E-03	-7.49E-03
Contribution to climate change-land use and land use change	kg CO2 eq	7.26E-08	0*	0*	0*	0*	7.26E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	9.48E-07	6.90E-07	3.23E-08	5.20E-09	2.18E-07	2.96E-09	-3.36E-08
Contribution to acidification	mol H+ eq	9.22E-02	7.99E-03	1.59E-04	3.12E-04	8.30E-02	7.43E-04	-4.48E-03
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	1.66E-04	1.07E-05	0*	5.67E-07	4.55E-07	1.55E-04	-7.34E-07
Contribution to eutrophication marine	kg N eq	1.32E-02	1.30E-03	7.32E-05	8.25E-05	1.17E-02	1.20E-04	-1.61E-04
Contribution to eutrophication, terrestrial	mol N eq	1.45E-01	1.39E-02	7.93E-04	6.23E-04	1.28E-01	1.49E-03	-1.73E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.93E-02	4.98E-03	2.60E-04	1.66E-04	4.35E-02	3.77E-04	-7.51E-04
Contribution to resource use, minerals and metals	kg Sb eq	2.58E-04	2.53E-04	0*	0*	1.11E-06	4.35E-06	-4.38E-05
Contribution to resource use, fossils	MJ	1.74E+02	1.47E+01	4.45E-01	8.17E-01	1.54E+02	3.30E+00	-3.23E+00
Contribution to water use	m3 eq	7.81E-01	0*	1.86E-03	3.35E-02	6.24E-01	1.39E-01	-2.20E-01

Inventory flows Indicators			MAX9 MAIN ISOLATOR SWITCH - MX9MS1100					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.76E+02	1.01E-01	0*	5.86E-02	2.76E+02	1.05E-01	-2.28E-03
Contribution to use of renewable primary energy resources used as raw material	MJ	2.64E-01	2.64E-01	0*	0*	0*	0*	-2.40E-01
Contribution to total use of renewable primary energy resources	MJ	2.77E+02	3.64E-01	0*	5.86E-02	2.76E+02	1.05E-01	-2.42E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.73E+02	1.36E+01	4.45E-01	8.17E-01	1.54E+02	3.30E+00	-3.23E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.17E+00	1.17E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.74E+02	1.47E+01	4.45E-01	8.17E-01	1.54E+02	3.30E+00	-3.23E+00
Contribution to use of secondary material	kg	3.34E-02	3.34E-02	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	1.82E-02	0*	4.33E-05	7.81E-04	1.45E-02	3.24E-03	-5.13E-03
Contribution to hazardous waste disposed	kg	5.15E+00	4.68E+00	0*	9.28E-04	3.93E-01	8.22E-02	-3.82E+00

Contribution to non hazardous waste disposed	kg	2.99E+00	6.09E-01	0*	2.55E-01	2.08E+00	4.65E-02	-5.22E-01
Contribution to radioactive waste disposed	kg	4.80E-04	2.80E-04	7.28E-06	3.43E-05	1.57E-04	2.05E-06	-1.43E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	7.80E-02	0*	0*	4.31E-02	0*	3.48E-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 PCRed4 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.

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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 (Ddmain)			
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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