Product Environmental Profile

MERTEN BS SWITCHED SOCKET

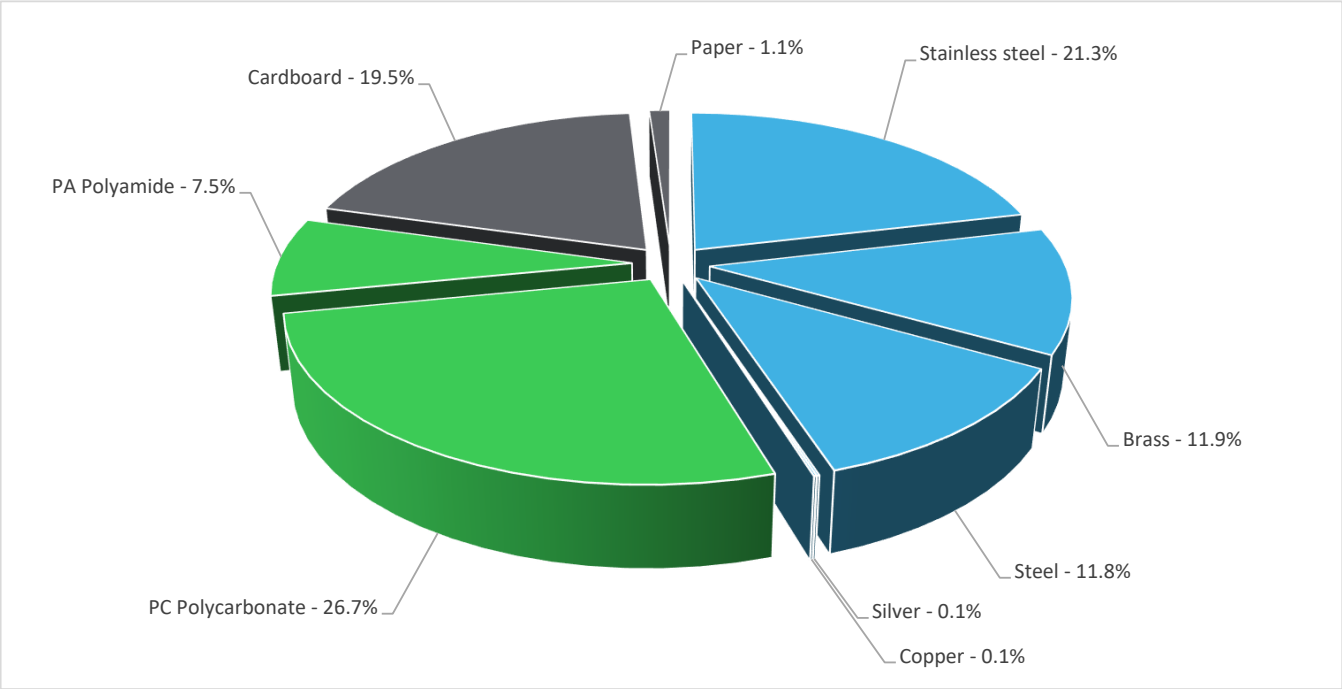


General information

Representative product	MERTEN BS SWITCHED SOCKET - MTN2122-0000
Description of the product	The main purpose of Merten BS Socket Outlet product is to give access to Electricity till the plug.
Functional unit	Connect/Disconnect during 20 years the plug of a load consuming 13A under a voltage of 250V while protecting the user from direct contact with live parts and with a protection class IP20 in accordance with the standard IEC 60529 and IK03 in accordance with the standard IEC 62262. The product follow BS1363-2 standards.

Constituent materials

Reference product mass	89 g	including the product, its packaging.



	Plastics	34.2%
	Metals	45.2%
	Others	20.6%

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

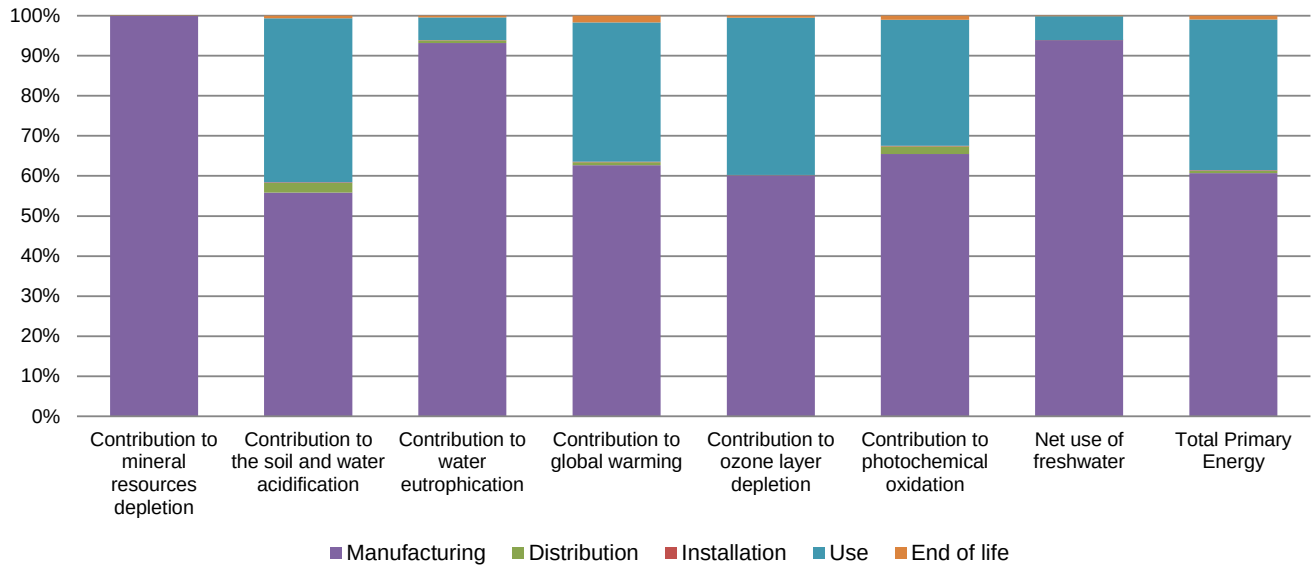
Additional environmental information

The MERTEN BS SWITCHED SOCKET presents the following relevent environmental aspects	
Manufacturing	Manufactured at a production site complying with the regulations
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 18 g, consisting of Cardboard (94.45%), Paper (5.55%) Product distribution optimised by setting up local distribution centres
Installation	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials is accounted during the installation phase (including transport to disposal).
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 No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process. Recyclability potential: **50%** 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	Power socket			
Installation elements	No special components needed			
Use scenario	The product is in active mode 50% of the time with a power use of 0.004 W and in OFF mode 50% of the time with a power use of 0.0 W for 20 years			
Geographical representativeness	Gulf countries & Kingdom of Saudi Arabia			
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.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Manufacturing plant: Guangdong QuanSHENG Electrical CO.,Ltd, China	Electricity Mix; AC; consumption mix, at consumer; 230-240V; GB	Electricity Mix; AC; consumption mix, at consumer; 230-240V; GB	Electricity Mix; AC; consumption mix, at consumer; 230-240V; GB

Compulsory indicators	MERTEN BS SWITCHED SOCKET - MTN2122-0000						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.14E-04	1.14E-04	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO_2 eq	3.37E-03	1.88E-03	8.14E-05	4.06E-06	1.38E-03	2.09E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	1.30E-03	1.21E-03	9.34E-06	9.87E-07	7.25E-05	5.84E-06
Contribution to global warming	kg CO_2 eq	6.68E-01	4.19E-01	4.75E-03	9.74E-04	2.32E-01	1.11E-02
Contribution to ozone layer depletion	kg CFC11 eq	9.28E-08	5.59E-08	0*	0*	3.64E-08	4.75E-10
Contribution to photochemical oxidation	kg C_2H_4 eq	2.17E-04	1.42E-04	4.25E-06	3.03E-07	6.82E-05	2.18E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	9.57E-03	8.98E-03	0*	0*	5.75E-04	9.53E-06
Total Primary Energy	MJ	1.07E+01	6.52E+00	6.38E-02	1.27E-02	4.04E+00	1.02E-01



Optional indicators		MERTEN BS SWITCHED SOCKET - MTN2122-0000					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	7.82E+00	4.96E+00	6.34E-02	1.26E-02	2.71E+00	8.18E-02
Contribution to air pollution	m³	1.21E+02	1.13E+02	4.36E-01	3.89E-02	6.72E+00	7.36E-01
Contribution to water pollution	m³	8.92E+01	8.01E+01	7.42E-01	1.48E-01	7.36E+00	8.87E-01
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.72E-02	1.72E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.49E-01	1.84E-01	8.32E-05	0*	6.45E-02	1.13E-04
Total use of non-renewable primary energy resources	MJ	1.05E+01	6.34E+00	6.37E-02	1.27E-02	3.98E+00	1.02E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.81E-01	1.16E-01	8.32E-05	1.98E-05	6.45E-02	1.13E-04
Use of renewable primary energy resources used as raw material	MJ	6.76E-02	6.76E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.50E+00	5.34E+00	6.37E-02	1.27E-02	3.98E+00	1.02E-01
Use of non renewable primary energy resources used as raw material	MJ	9.98E-01	9.98E-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*
Waste categories	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	3.21E+00	3.11E+00	0*	0*	0*	1.04E-01
Non hazardous waste disposed	kg	7.59E-01	4.48E-01	1.57E-04	1.32E-04	3.10E-01	3.12E-04
Radioactive waste disposed	kg	6.54E-04	1.96E-04	1.10E-07	0*	4.57E-04	4.93E-07
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	6.11E-02	8.68E-03	0*	1.79E-02	0*	3.45E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.49E-03	0*	0*	0*	0*	1.49E-03
Exported Energy	MJ	5.69E-05	5.35E-06	0*	5.16E-05	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 2016-11 in compliance with ISO14044.

The manufacturing 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	ENVPEP2202007_V2	*Drafting rules*	PCR-ed3-EN-2015 04 02
Date of issue	10/2022	*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 Published by Schneider Electric

© 2019 - Schneider Electric – All rights reserved