Product Environmental Profile

OCEAN PLASTIC SYSTEM M SCHUKO SOCKET OUTLET

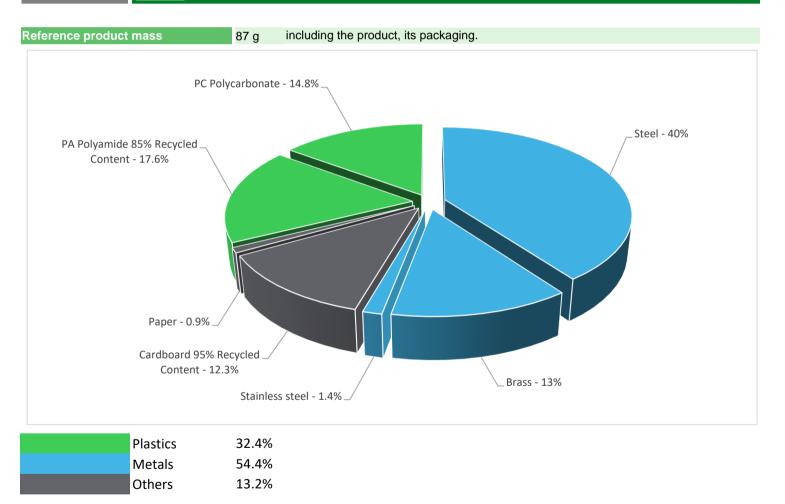




General information

Representative product	OCEAN PLASTIC SYSTEM M SCHUKO SOCKET OUTLET - MEG2301-0403				
Description of the product	The main purpose of the Merten Socket Outlet product is to connect/dissconnect the plug of a load protecting user from direct contact.				
Description of the range	The indicators values of this Merten Socket Outlet can be extrapolated for other Merten Socket Outlet range of products based on the Mass and Energy values of the products. The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.				
Functional unit	Connect/Disconnect during 20 years the plug of a load consuming 16A 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.				

Constituent materials



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, Disobutyl 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

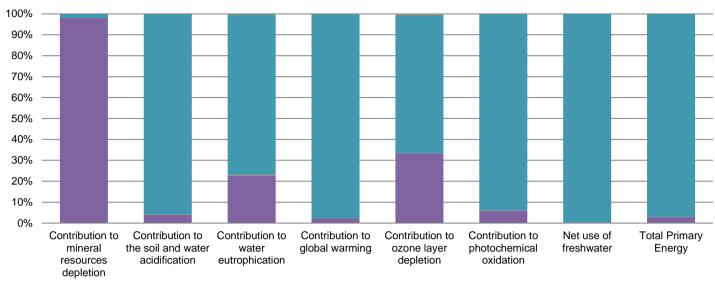
The OCEAN PLASTIC SYSTEM M SCHUKO SOCKET OUTLET presents the following relevent environmental aspects						
Design	Merten Socket Outlet are made of at least 45% plastic recycled content.					
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified					
	Weight and volume of the packaging optimized, based on the European Union's packaging directive					
Distribution	Packaging weight is 12.1 g, consisting of cardboard (93.15%), paper (6.85%)					
DISTIDUTION	Packaging recycled materials is 88% of total packaging mass.					
	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 are accounted during the installation phase (including transport to disposal).					
Use	The product does not require special maintenance operations.					
	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.					
End of life	Recyclability potential: 73% Based on Reeecyclab tool of ecosystem (for Polyamide) and "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).					

D Environmental impacts

Reference life time	20 years					
Product category	Power socket					
Installation elements	No special components needed					
Use scenario	Full load is 0.36 W at worst case scenario. The product is in active mode 50% of the time with a power use of 0.3072W for 20 years					
Geographical representativeness	Germany					
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.					
	Manufacturing	Installation	Use	End of life		
Energy model used	Manufacturing plant: Wiehl, Germany	Electricity grid mix; AC; consumption mix, at consumer; 230V; DE	Electricity grid mix; AC; consumption mix, at consumer; 230V; DE	Electricity grid mix; AC; consumption mix, at consumer; 230V; DE		

Compulsory indicators		OCEAN PLA	STIC SYSTEM M	SCHUKO SOC	KET OUTLET	- MEG2301	-0403
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	6.57E-05	6.43E-05	0*	0*	1.31E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	2.80E-02	1.12E-03	4.46E-05	0*	2.68E-02	2.36E-05
Contribution to water eutrophication	kg PO4 ³⁻ eq	3.83E-03	8.75E-04	1.03E-05	6.65E-07	2.94E-03	6.60E-06
Contribution to global warming	kg CO_2 eq	1.73E+01	3.84E-01	9.44E-03	0*	1.68E+01	1.26E-02
Contribution to ozone layer depletion	kg CFC11 eq	1.25E-07	4.15E-08	1.91E-11	0*	8.27E-08	5.04E-10
Contribution to photochemical oxidation	kg C_2H_4 eq	1.89E-03	1.12E-04	3.21E-06	2.04E-07	1.77E-03	2.48E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	4.08E+01	1.08E-01	0*	0*	4.07E+01	0*
Total Primary Energy	MJ	2.85E+02	8.36E+00	1.33E-01	0*	2.77E+02	1.15E-01

ENVPEP2202015_V1



Manufacturing Distribution Installa

Installation Use End of life

Optional indicators	OCEAN PLASTIC SYSTEM M SCHUKO SOCKET OUTLET - MEG2301-0403						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.73E+02	4.44E+00	1.33E-01	0*	1.69E+02	9.26E-02
Contribution to air pollution	m³	6.18E+02	1.43E+02	4.34E-01	0*	4.74E+02	8.33E-01
Contribution to water pollution	m³	9.26E+02	3.84E+01	1.55E+00	9.96E-02	8.85E+02	1.00E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.20E-02	1.20E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	4.03E+01	1.98E-01	0*	0*	4.01E+01	0*
Total use of non-renewable primary energy resources	MJ	2.45E+02	8.17E+00	1.33E-01	0*	2.36E+02	1.15E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.03E+01	1.51E-01	0*	0*	4.01E+01	0*
Use of renewable primary energy resources used as raw material	MJ	4.78E-02	4.78E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.44E+02	7.74E+00	1.33E-01	0*	2.36E+02	1.15E-01
Use of non renewable primary energy resources used as raw material	MJ	4.23E-01	4.23E-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	5.02E+00	4.92E+00	0*	0*	4.12E-03	1.01E-01
Non hazardous waste disposed	kg	9.20E+01	4.31E-01	0*	0*	9.16E+01	0*
Radioactive waste disposed	kg	2.79E-02	1.80E-04	0*	0*	2.77E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	7.88E-02	9.04E-03	0*	1.21E-02	0*	5.76E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.72E-03	0*	0*	0*	0*	1.72E-03
Exported Energy	MJ	3.84E-05	3.61E-06	0*	3.47E-05	0*	0*

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

Life cycle assessment performed with EIME version 5.9.3, database version Akulon Plastics 4 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) exept ADPe is mostly in manufacturing phase.

ENVPEP2202015_V1 - Product Environmental Profile - OCEAN PLASTIC SYSTEM M SCHUKO SOCKET OUTLET

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request.

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 numbe	ər	ENVPEP2202015_V1	Drafting rules	PCR-ed3-EN-2015 04 02		
Date of issue		05/2022	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 th	e presen	t PEP cannot be compared with e	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

ENVPEP2202015_V1

© 2019 - Schneider Electric – All rights reserved

05/2022