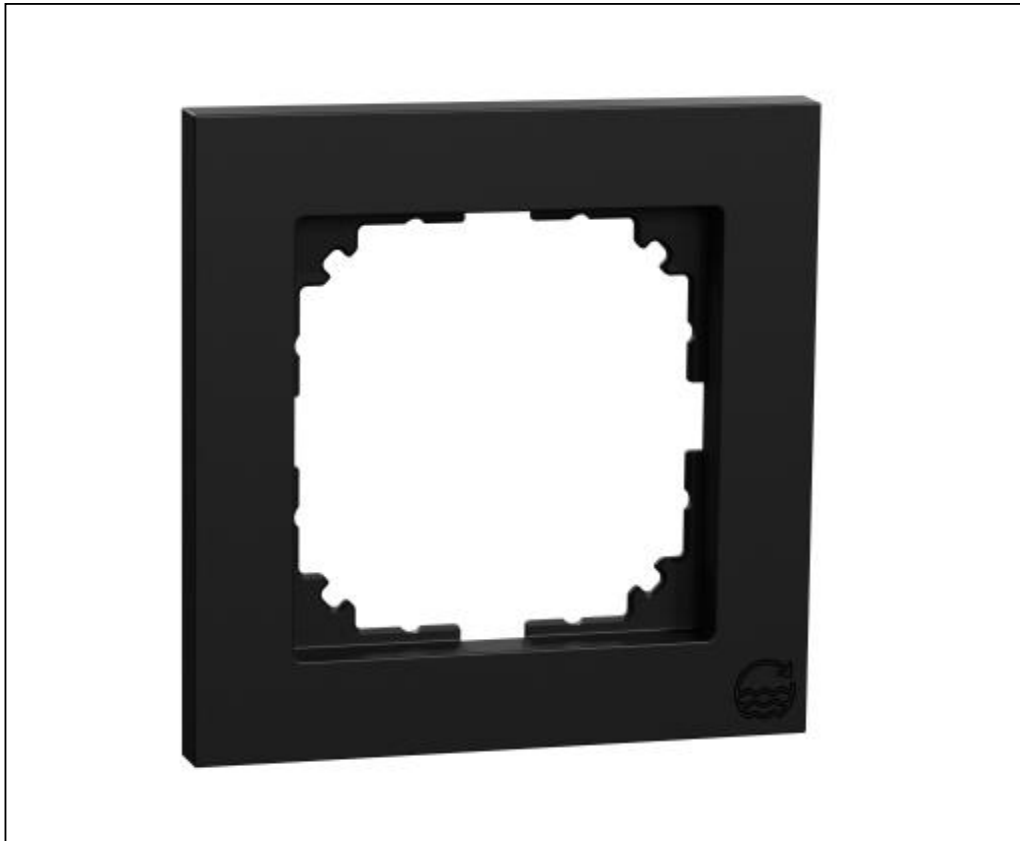


Product Environmental Profile

OCEAN PLASTIC SYSTEM M TPM FRAME





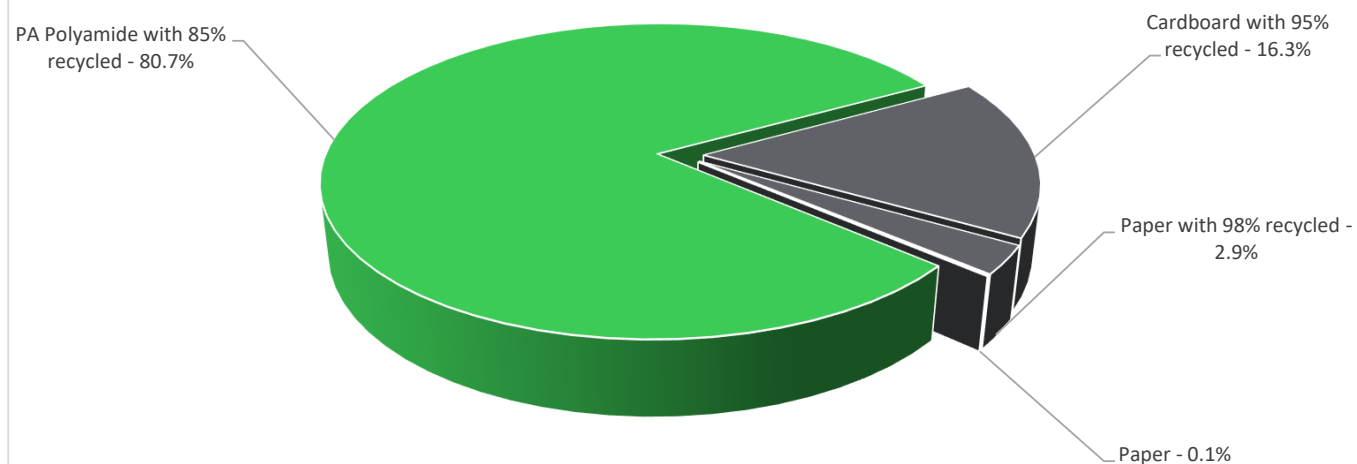
General information

Representative product	OCEAN PLASTIC SYSTEM M TPM FRAME - MEG4010-3603
Description of the product	The main purpose of the Merten frame is that they fit with all equipment and can be used in combination with a clocking frame for fastening to switch inserts, horizontals and verticals.
Description of the range	<p>The Indicator Values of this Ocean Plastic System M TPM Frame be extrapolated for other System M Frame based on the Mass value of the products.</p> <p>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.</p>
Functional unit	To protect against electrical contacts, giving IP21 protection in accordance with the standard IEC 60529 and IK04 in accordance with the standard IEC 62262 and contribute to the wall mounted electrical devices for 20 years.



Constituent materials

Reference product mass	23 g	including the product, its packaging
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Plastics	80.7%
Metals	0.0%
Others	19.3%

References products mass

	PACKAGING (g)	METALS (g)	PLASTICS (g)	Total Mass (g)
Reference Product	4.40	0.00	18.93	23.33
Mini Range	7.20	0.00	31.00	38.20
Maxi Range	7.40	0.00	43.73	51.13



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 OCEAN PLASTIC SYSTEM M TPM FRAME presents the following relevant environmental aspects

Design	Ocean Plastic System M TPM Frame are made of at least 85% plastic recycled content.		
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 4.4 g, consisting of Cardboard(84.18%), Paper(15.82%) Packaging recycled materials is 90% of total packaging mass. Product distribution optimised by setting up local distribution centres		
Installation	This product does not require special installation operation. The disposal of the packaging materials are accounted for 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: 87%		

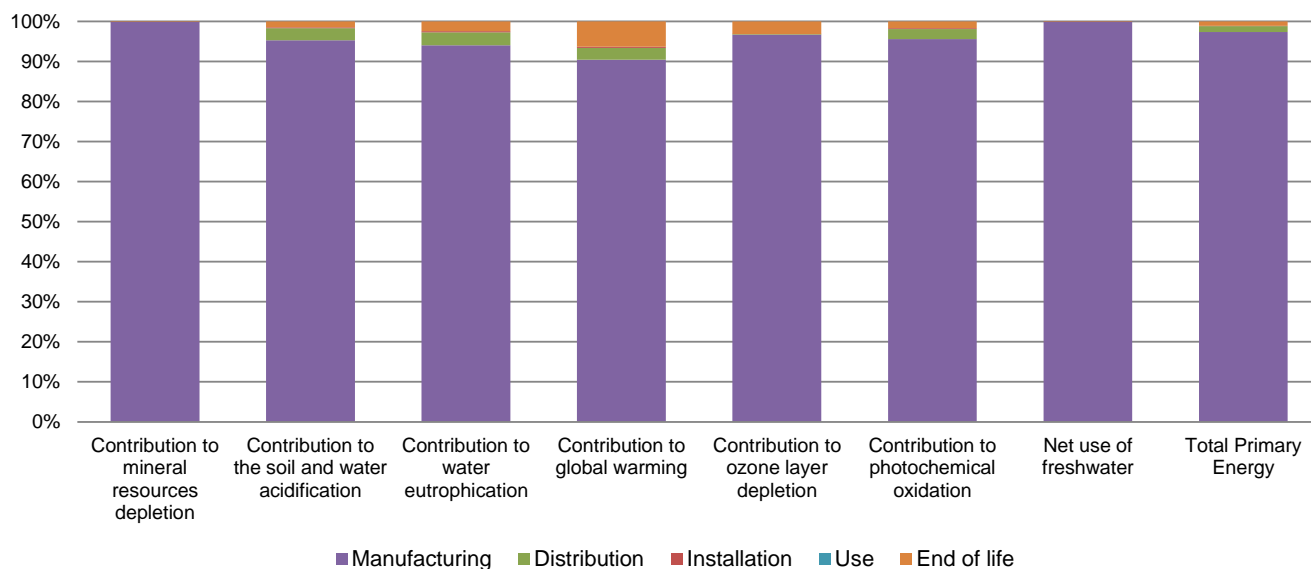
Based on Reecyclab tool of ecosystem (for Polyamide) and "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).



Environmental impacts

Reference life time	20 years			
Product category	Other equipments - Passive product - non-continuous operation			
Installation elements	This product does not require any special components during installation			
Use scenario	No power consumption			
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.			
Energy model used	Manufacturing	Installation	Use	End of life
	Manufacturing Plant: KLG, Poland	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 PLASTIC SYSTEM M TPM FRAME - MEG4010-3603					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.65E-07	3.65E-07	9.98E-11	0*	0*	5.63E-11
Contribution to the soil and water acidification	kg SO ₂ eq	3.95E-04	3.77E-04	1.18E-05	9.91E-07	0*	5.79E-06
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	8.47E-05	7.96E-05	2.73E-06	2.41E-07	0*	2.09E-06
Contribution to global warming	kg CO ₂ eq	8.42E-02	7.62E-02	2.49E-03	2.38E-04	0*	5.33E-03
Contribution to ozone layer depletion	kg CFC11 eq	3.56E-09	3.44E-09	5.05E-12	5.08E-13	0*	1.12E-10
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	3.39E-05	3.24E-05	8.50E-07	7.41E-08	0*	5.84E-07
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	5.58E-02	5.58E-02	0*	0*	0*	0*
Total Primary Energy	MJ	2.49E+00	2.42E+00	3.53E-02	3.11E-03	0*	2.69E-02



Optional indicators		OCEAN PLASTIC SYSTEM M TPM FRAME - MEG4010-3603					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	8.20E-01	7.60E-01	3.50E-02	3.08E-03	0*	2.15E-02
Contribution to air pollution	m³	5.05E+00	4.72E+00	1.15E-01	9.49E-03	0*	2.02E-01
Contribution to water pollution	m³	5.03E+00	4.28E+00	4.10E-01	3.61E-02	0*	2.95E-01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.20E-03	4.20E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	6.21E-02	6.20E-02	4.70E-05	0*	0*	3.00E-05
Total use of non-renewable primary energy resources	MJ	2.42E+00	2.36E+00	3.52E-02	3.10E-03	0*	2.69E-02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.06E-02	5.05E-02	4.70E-05	0*	0*	3.00E-05
Use of renewable primary energy resources used as raw material	MJ	1.15E-02	1.15E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.42E+00	2.36E+00	3.52E-02	3.10E-03	0*	2.69E-02
Use of non renewable primary energy resources used as raw material	MJ	0.00E+00	0*	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	2.25E-02	1.67E-03	0*	0*	0*	2.09E-02
Non hazardous waste disposed	kg	9.69E-02	9.67E-02	8.86E-05	3.23E-05	0*	8.34E-05
Radioactive waste disposed	kg	4.27E-05	4.25E-05	6.31E-08	6.35E-09	0*	1.27E-07
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.26E-02	2.27E-03	0*	4.37E-03	0*	1.60E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.20E-03	0*	0*	0*	0*	1.20E-03
Exported Energy	MJ	1.39E-05	1.31E-06	0*	1.26E-05	0*	0*

Compulsory indicators		Sum		
Impact indicators	Unit	Referent	Mini	Maxi
Abiotic depletion (elements, ultimate ultimate reserves) (ADPe for EN15804)	kg antimony eq.	3.654E-07	6.16E-07	8.68E-07
Abiotic depletion (fossil fuels) (ADPf for EN15804)	MJ	0.81995	1.37E+00	1.90E+00
Acidification potential of soil and water (total average for Europe) (A for PEP)	kg SO2 eq.	0.0003953	6.64E-04	9.15E-04
Air pollution (AP for DHUP)	m³	5.0462	8.49E+00	1.16E+01
Eutrophication (fate not incl.) (EP for EN15804)	kg PO4--- eq.	8.47E-05	1.42E-04	1.96E-04
Global warming (GWP100) (GWP for EN15804)	kg CO2 eq.	0.084236	1.41E-01	1.93E-01
Ozone layer depletion ODP steady state (ODP for EN15804)	kg CFC-11 eq.	3.559E-09	6.02E-09	8.15E-09
Photochemical oxidation (high NOx) (POCP for EN15804)	kg ethylene eq.	3.393E-05	5.70E-05	7.88E-05
Water Pollution (WP for DHUP)	m³	5.0256	8.44E+00	1.09E+01
Net use of freshwater (NUFW)	m³	0.055794	9.40E-02	1.33E-01
Total Primary Energy (TPE)	MJ	2.4863	4.17E+00	5.83E+00

* 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 Plastic 4 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).

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 number	ENVPEP2202018_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	06/2022	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) »			

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Published by Schneider Electric

ENVPEP2202018_V1

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06/2022