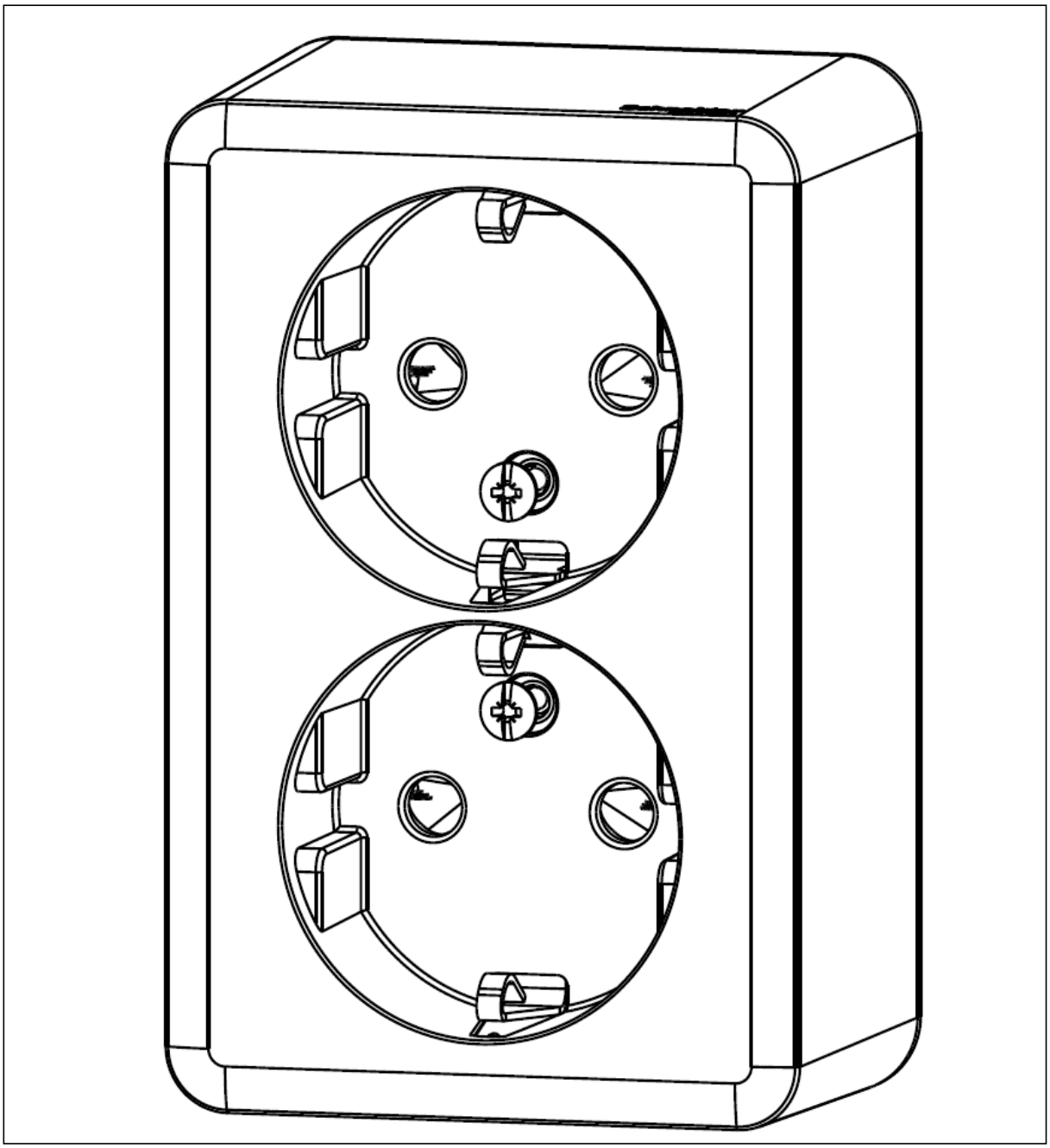
Product Environmental Profile

Surface DSO earth screwless white

as referent product for:

all double socket-outlets with plastic frame in EU ranges

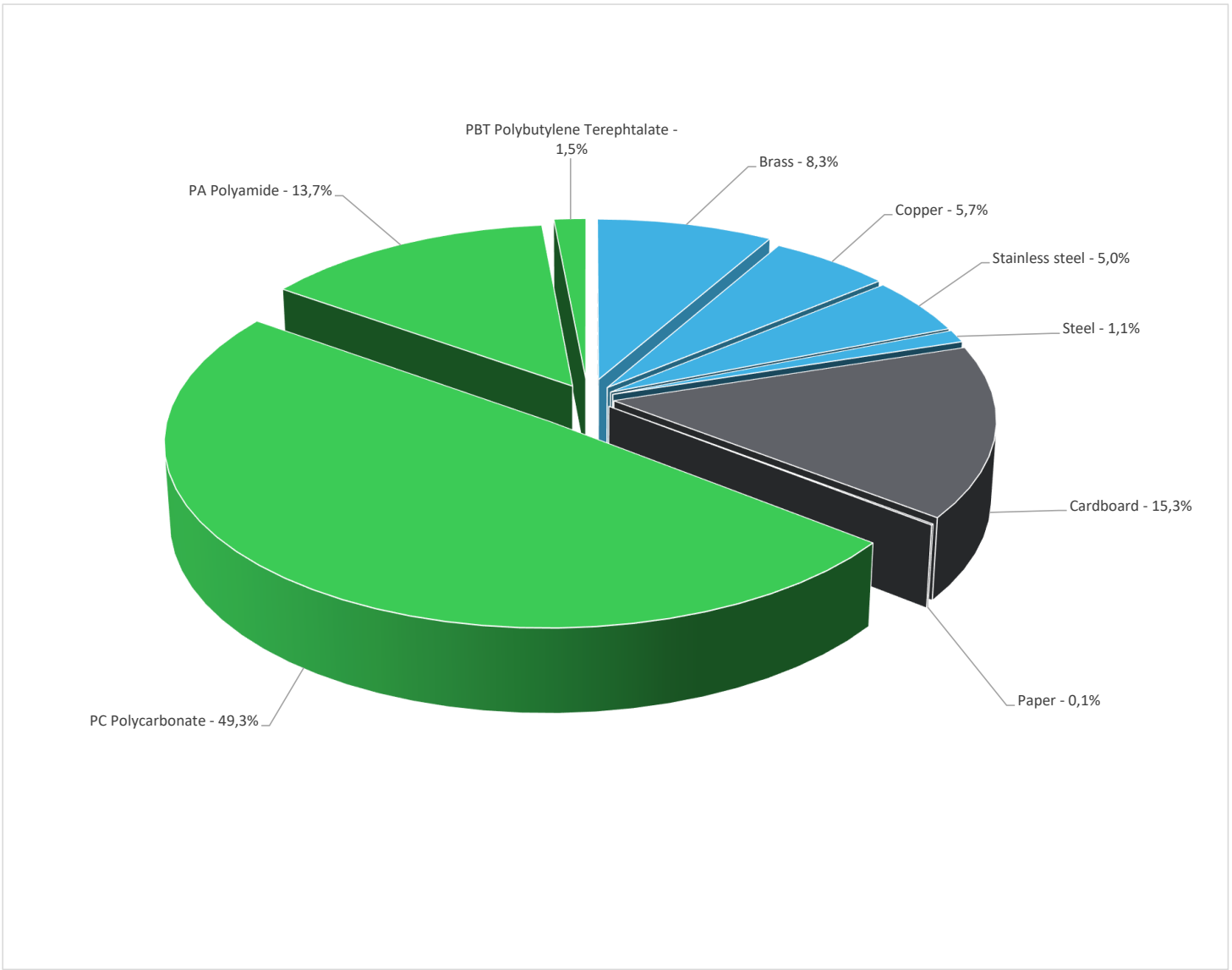


General information

Reference product	Surface DSO earth screwless white - WDE015596
Description of the product	The main purpose of the double socket outlet (DSO) product is to give a solution for the infrastructures that give access to Electricity till the plug. Socket-outlet WDE015596 is a complete product with 2 socket outlets. The outlet pole configuration of this socket-outlet is 2P + E with shutters, designed to prevent accidental access to live electrical contacts. The dielectric strength of this socket-outlet is 2000 V.
Description of the range	It contains double, triple and quadruple sockets outlet with and without earth line, with srewless or srew terminals, with and without claws, with plastic frames, with different finishings. The environmental impacts of this reference 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 and with a protection class IP21 in accordance with the standard IEC 60529 and IK04 in accordance with the standard IEC 62262.

Constituent materials

Reference product mass	120,3 g	including the product, its packaging and additional elements and accessories



Plastics	64,5%
Metals	20,1%

	Others	15,4%

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:	**23%**	Recyclability rate has been calculated based on REEECY'LAB 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).

Environmental impacts

Reference service life time	20 years			
Product category	Power socket			
Installation elements	No special component needed			
Use scenario	The product is in active mode 50% of the time with a power use of 0.3072W (8 A corresponding to 50% of Max current) and off for the other 50% of the time, for 20 years			
Geographical representativeness	Europe			
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			
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; Production mix; Low voltage; PL	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), 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		**Surface DSO earth screwless white - WDE015596**					
Impact indicators	**Unit**	**Total**	**Manufacturing [A1 - A3]**	**Distribution [A4]**	**Installation [A5]**	**Use [B1 - B7]**	**End of Life [C1 - C4]**	**Benefits [D]**
Contribution to climate change	kg CO2 eq	1,21E+01	7,35E-01	1,92E-02	3,32E-02	1,10E+01	3,10E-01	-2,20E-01
Contribution to climate change-fossil	kg CO2 eq	1,21E+01	7,25E-01	1,92E-02	3,17E-02	1,10E+01	3,08E-01	-2,17E-01
Contribution to climate change-biogenic	kg CO2 eq	2,84E-02	1,09E-02	0*	1,47E-03	1,47E-02	1,39E-03	-2,04E-03
Contribution to climate change-land use and land use change	kg CO2 eq	2,33E-08	0*	0*	0*	0*	2,33E-08	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	9,49E-08	4,38E-08	2,94E-11	2,20E-09	4,72E-08	1,62E-09	-4,17E-08
Contribution to acidification	mol H+ eq	6,88E-02	5,14E-03	1,28E-04	1,32E-04	6,29E-02	4,24E-04	-2,30E-03
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$eq	8,47E-05	4,73E-06	0*	2,40E-07	3,02E-05	4,95E-05	-4,83E-07
Contribution to eutrophication marine	kg N eq	8,10E-03	7,77E-04	6,05E-05	3,49E-05	7,15E-03	7,73E-05	-1,38E-04
Contribution to eutrophication, terrestrial	mol N eq	1,18E-01	8,31E-03	6,64E-04	2,63E-04	1,07E-01	9,57E-04	-1,57E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	2,61E-02	2,64E-03	1,68E-04	7,03E-05	2,30E-02	2,59E-04	-6,08E-04
Contribution to resource use, minerals and metals	kg Sb eq	2,87E-05	2,66E-05	0*	0*	7,99E-07	1,40E-06	-6,13E-05
Contribution to resource use, fossils	MJ	2,98E+02	1,28E+01	2,68E-01	3,45E-01	2,81E+02	3,85E+00	-4,32E+00

Contribution to water use	m3 eq	5,60E-01	7,89E-02	7,29E-05	1,42E-02	3,90E-01	7,62E-02	-1,40E-01

Inventory flows Indicators			Surface DSO earth screwless white - WDE015596					
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5,41E+01	6,77E-02	0*	2,48E-02	5,40E+01	3,47E-02	-1,56E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	3,62E-01	3,62E-01	0*	0*	0*	0*	-7,24E-02
Contribution to total use of renewable primary energy resources	MJ	5,45E+01	4,30E-01	0*	2,48E-02	5,40E+01	3,47E-02	-8,80E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2,96E+02	1,04E+01	2,68E-01	3,45E-01	2,81E+02	3,85E+00	-4,32E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	2,38E+00	2,38E+00	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2,98E+02	1,28E+01	2,68E-01	3,45E-01	2,81E+02	3,85E+00	-4,32E+00
Contribution to use of secondary material	kg	0,00E+00	0*	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	1,30E-02	1,84E-03	1,70E-06	3,30E-04	9,09E-03	1,77E-03	-3,27E-03
Contribution to hazardous waste disposed	kg	2,48E+00	2,17E+00	0*	3,92E-04	2,06E-01	1,02E-01	-4,91E+00
Contribution to non hazardous waste disposed	kg	2,85E+00	1,07E+00	6,74E-04	1,08E-01	1,59E+00	8,17E-02	-2,40E-01
Contribution to radioactive waste disposed	kg	7,10E-04	3,59E-04	4,80E-07	1,45E-05	3,32E-04	3,30E-06	-6,72E-05
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	4,18E-02	0*	0*	1,82E-02	0*	2,36E-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 v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

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

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 :	SCHN-00951-V01.01-EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
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Date of issue :	05-2023	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal External X

The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDEMAIN)

PEP are compliant with XP C08-100-1 :2016

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »

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