SCHUKO DOUBLE SOCKET OUTLET

PEP ecopassport®

Product Environmental Profile



Registration number:	**ABBG-00725-V01.02-EN**	Drafting rules:	**PCR-ed4-EN-2021 09 06**
Contact information:	**ella.helynranta@fi.abb.com**	Supplemented by:	**PSR-0005-ed3-EN-2023 06 06**
Verifier accreditation number:	**VH08**	Information and reference documents:	**www.pep-ecopassport.org**
Date of issue:	**12-2024**	Validity period:	**5 years**

Independent verification of the declaration and data in compliance with ISO 14025: 2006

Internal: ☐ **External:** ☒

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (Ddemain)

PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022
The components of the present PEP may not be compared with components from any other program.

Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"

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ABB Purpose & Embedding Sustainability

ABB is committed to promoting and embedding sustainability across its operations and value chain, with the ambition of setting a benchmark in sustainability performance.

Through its Purpose, ABB focuses on reducing harmful emissions, preserving natural resources, and promoting ethical and responsible behaviour.

This PEP is not directly comparable with environmental declarations developed under other programme operators.

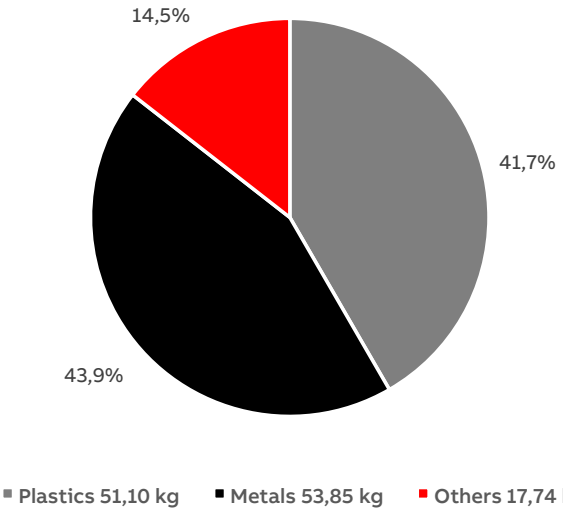
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General information

Reference product	**2TKA00003896**
Description of the product	**202 EUJ-214** **SCHUKO® Double socket outlet in alpine white.**
Functional unit	**Connect/disconnect the plug of a load consuming 16 A maximum under a voltage of 250 V while protecting the user from direct contact with live parts according to the appropriate use scenario with a pro-tection class IP20, and for the reference service life of the product of 20 years.**
Other products covered	**The other products covered by the PEP are listed on page 8.**
PEP Owner address	**Porvoon Sisäkehä 2, Porvoo Finland www.abb.com**

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Constituent Materials



Total weight of reference product and packaging	**122,7**	**kg**

Plastics as % of weight		**Metals as % of weight**		**Others as % of weight**	
Name and CAS number	Weight%	Name and CAS number	Weight%	Name and CAS number	Weight%
Polycarbonate	32,4	**Stainless steel**	20,6	**Carton**	14,5
Polyamide 6 GF20	6,7	**Brass**	16,6		
Post consumer polypropylene	0,5	**Carbon steel**	6,7		
LDPE film	2,0				

The analysed product is in conformity with the provisions of Low Voltage Directive 2014/35/EU, RoHS directive 2011/65/EU, covering 2015/863(EU), REACH regulation No 1907/2006, and national legislation.

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Additional Information

Manufacturing	Includes the environmental impacts associated with extraction and processing of the raw materials used to produce the product and its packaging, transport to the manufacturing site and assembly, covering modules A1-A3. The product is manufactured at an ISO 14000 certified plant.
Distribution	Includes the transportation of the packaged product from the manufacturer's last logistic platform to the distributor, covering module A4
Installation	Includes the manual installation of the products and the end-of-life of packaging, covering module A5.
Use	The product does not require special maintanence operations, covering modules B1-B7.
End of life	Includes the transportation of the product to the final end-of-life treatment site and treatment processes, covering modules C1-C4.
Benefits and loads beyond the system boundaries	Prevented impacts of recycling materials, covering module D.

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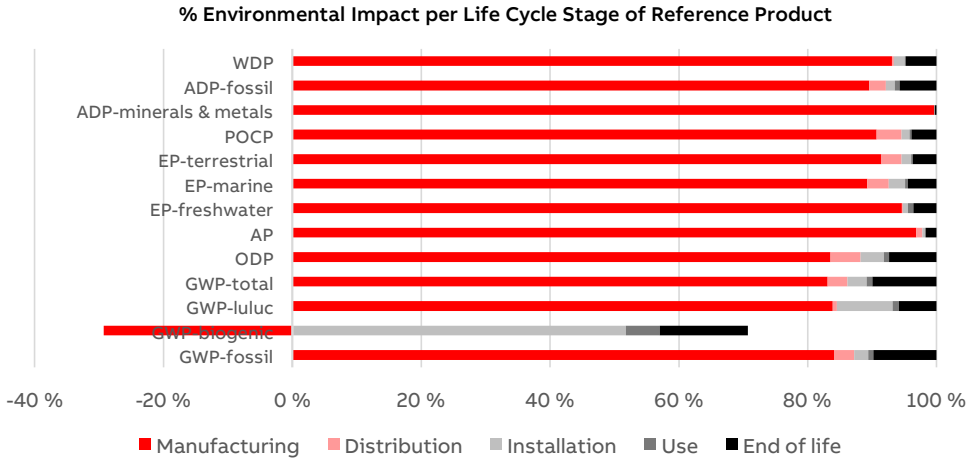
Environmental Impacts

Reference lifetime	20 years
Product category	Power socket - Household/Commercial
Installation elements	No additional materials needed
Use scenario	Load rate: 10% of rated current Use rate: 30% of RTL
Geographical representativeness	Finland and Germany
Technological representativeness	The manufactruing processes considered are representative of the products production
Software	SimaPro 9.6.0.1
Database	ecoinvent Version 3.10

Energy model used	
Manufacturing	Finland
Installation	Germany
Use	Germany
End of life	Germany

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Common base of mandatory indicators



Environmental impact indicators

Indicator		Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
GWP	Total	kg CO2 eq.	6,62E-01	5,50E-01	2,05E-02	1,98E-02	5,90E-03	6,59E-02	-1,69E-01
	Fossil	kg CO2 eq.	6,57E-01	5,52E-01	2,05E-02	1,42E-02	5,33E-03	6,44E-02	-1,69E-01
	Biogenic	kg CO2 eq.	4,41E-03	-3,11E-03	1,25E-05	5,49E-03	5,60E-04	1,46E-03	1,83E-04
	Luluc	kg CO2 eq.	1,12E-03	9,40E-04	6,99E-06	9,72E-05	1,08E-05	6,55E-05	-1,45E-04
ODP		kg CFC-11 eq.	8,55E-09	7,14E-09	3,98E-10	3,12E-10	6,85E-11	6,29E-10	-3,40E-09
AP		H+ eq.	1,09E-02	1,05E-02	1,05E-04	4,55E-05	1,54E-05	1,80E-04	-3,96E-04
EP	Freshwater	kg P eq.	8,58E-04	8,11E-04	1,31E-06	7,00E-06	7,27E-06	3,07E-05	-2,31E-05
	Marine	kg N eq.	9,35E-04	8,35E-04	3,13E-05	2,36E-05	3,96E-06	4,17E-05	-1,06E-04
	Terrestrial	mol N eq.	1,09E-02	9,94E-03	3,43E-04	1,59E-04	2,93E-05	4,02E-04	-1,06E-03
POCP		kg NMVOC eq.	3,27E-03	2,96E-03	1,27E-04	3,94E-05	9,42E-06	1,28E-04	-3,51E-04
ADP	Minerals & metals	kg SB eq.	1,27E-04	1,27E-04	6,20E-08	5,06E-08	6,76E-08	3,11E-07	-2,52E-07
	Fossil	MJ	1,11E+01	9,92E+00	2,85E-01	1,52E-01	8,33E-02	6,35E-01	-4,14E+00
WDP		m³ eq. depr.	3,66E-01	3,40E-01	1,13E-03	6,17E-03	4,78E-04	1,75E-02	-4,33E-02

Resource use indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
PERE	MJ	1,42E+00	1,23E+00	4,49E-03	2,67E-02	2,81E-02	1,28E-01	-3,28E-01
PERM	MJ	2,28E-01	2,28E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	1,65E+00	1,46E+00	4,49E-03	2,67E-02	2,81E-02	1,28E-01	-3,28E-01
PENRE	MJ	9,59E+00	8,43E+00	2,85E-01	1,53E-01	8,33E-02	6,35E-01	-4,14E+00
PENRM	MJ	1,49E+00	1,49E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	1,11E+01	9,92E+00	2,85E-01	1,53E-01	8,33E-02	6,35E-01	-4,14E+00

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Common base of mandatory indicators

Use of secondary materials, water, and energy resources

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
SM	kg	9,85E-03	9,85E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m^3	1,14E-02	1,08E-02	3,70E-05	2,24E-04	1,77E-05	3,77E-04	-1,16E-03

Waste category indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
HWD	kg	8,56E-05	8,11E-05	1,89E-06	6,87E-07	2,59E-07	1,71E-06	-3,20E-06
N-HWD	kg	1,16E-01	1,14E-01	8,43E-04	9,68E-05	2,67E-05	3,62E-04	-1,07E-01
RWD	kg	8,46E-05	8,09E-05	8,68E-08	2,59E-07	3,71E-07	2,96E-06	-5,86E-05

Output flow indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
CfRu	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MfR	kg	1,09E-01	0,00E+00	0,00E+00	1,63E-02	0,00E+00	9,30E-02
MfER	kg	1,48E-02	1,45E-03	0,00E+00	3,93E-03	0,00E+00	9,40E-03
EE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Other indicators

Indicator		Unit	Total
Biogenic Carbon	Product	kg of C	0,00E+00
	Packaging	kg of C	7,99E-03

Extrapolation Factors

For products other than the Reference Product covered by this PEP, the environmental impacts for each life cycle stage are calculated by multiplying the values of the Reference Product by the extrapolation coefficients defined below:

Product ID	Manufacturing	Distribution	Installation	Use	End of life	Benefits
2TKA00003896	1,00	1,00	1,00	1,00	1,00	1,00
2TKA00003938	1,21	1,21	1,03	1,10	1,25	1,21
2TKA00003900	0,94	0,94	1,00	1,00	0,93	0,94
2TKA00003937	1,20	1,20	1,03	1,10	1,24	1,20
2TKA00003891	0,83	0,83	1,00	1,00	0,80	0,83
2TKA00003910	0,99	0,99	1,00	1,00	0,98	0,99
2TKA00003901	0,94	0,94	1,00	1,00	0,93	0,94
2TKA00003909	1,05	1,05	1,00	1,00	1,06	1,05
2TKA00003904	1,04	1,04	1,00	1,00	1,05	1,04
2TKA00003895	1,00	1,00	1,00	1,00	1,00	1,00
2TKA00003931	1,07	1,07	1,03	1,10	1,08	1,07
2TKA00003933	0,94	0,94	1,03	1,10	0,92	0,94
2TKA00003892	0,83	0,83	1,00	1,00	0,80	0,83
2TKA00003926	1,00	1,00	1,00	1,00	1,00	1,00
2TKA00003932	1,08	1,08	1,03	1,10	1,09	1,08
2TKA00003927	0,81	0,81	1,03	1,10	0,76	0,81
2TKA00003911	1,05	1,05	1,00	1,00	1,06	1,05
2TKA00003935	0,95	0,95	1,03	1,10	0,93	0,95
2TKA00003907	0,86	0,86	1,00	1,00	0,84	0,86
2TKA00003940	1,22	1,22	1,03	1,10	1,26	1,22
2TKA00003899	0,95	0,95	1,00	1,00	0,94	0,95
2TKA00003934	0,95	0,95	1,03	1,10	0,93	0,95
2TKA00003906	1,05	1,05	1,00	1,00	1,06	1,05
2TKA00003898	1,01	1,01	1,00	1,00	1,01	1,01
2TKA00003890	1,00	1,00	1,00	1,00	1,00	1,00
2TKA00003924	1,00	1,00	1,00	1,00	1,00	1,00
2TKA00003889	1,06	1,06	1,00	1,00	1,07	1,06
2TKA00003903	1,04	1,04	1,00	1,00	1,05	1,04
2TKA00003912	0,99	0,99	1,00	1,00	0,99	0,99
2TKA00003908	0,87	0,87	1,00	1,00	0,85	0,87
2TKA00003939	1,21	1,21	1,03	1,10	1,25	1,21
2TKA00003902	0,95	0,95	1,00	1,00	0,94	0,95
2TKA00003888	1,00	1,00	1,00	1,00	1,00	1,00
2TKA00003922	1,00	1,00	1,00	1,00	1,00	1,00
2TKA00003923	1,06	1,06	1,00	1,00	1,07	1,06
2TKA00003887	1,06	1,06	1,00	1,00	1,07	1,06
2TKA00003936	0,96	0,96	1,03	1,10	0,94	0,96
2TKA00003883	1,06	1,06	1,00	1,00	1,07	1,06
2TKA00003921	1,06	1,06	1,00	1,00	1,07	1,06

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Extrapolation Factors

Product ID	Manufacturing	Distribution	Installation	Use	End of life	Benefits
2TKA00003925	1,06	1,06	1,00	1,00	1,07	1,06
2TKA00003928	0,81	0,81	1,03	1,10	0,77	0,81
2TKA00003905	1,05	1,05	1,00	1,00	1,06	1,05
2TKA00003897	1,01	1,01	1,00	1,00	1,01	1,01
2TKA00003884	1,00	1,00	1,00	1,00	1,00	1,00
2TKA00003885	1,05	1,05	1,00	1,00	1,06	1,05
2TKA00003886	0,99	0,99	1,00	1,00	0,99	0,99
2TKA00003930	0,82	0,82	1,03	1,10	0,78	0,82
2TKA00003929	0,81	0,81	1,03	1,10	0,77	0,81
2TKA00003894	0,84	0,84	1,00	1,00	0,81	0,84
2TKA00003893	0,84	0,84	1,00	1,00	0,81	0,84
2TKA00005985	1,05	1,05	1,00	1,00	1,06	1,05
2TKA00005986	1,05	1,05	1,00	1,00	1,06	1,05

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Glossary

Environmental impact Indicators	
GWP-total	Global Warming Potential total (Climate change)
GWP-fossil	Global Warming Potential fossil
GWP-biogenic	Global Warming Potential biogenic
GWP-luluc	Global Warming Potential land use and land use change
ODP	Depletion potential of the stratospheric ozone layer
AP	Acidification potential
EP-freshwater	Eutrophication potential - freshwater compartment
EP-marine	Eutrophication potential - fraction of nutrients reaching marine end compartment
EP-terrestrial	Eutrophication potential - Accumulated Exceedance
POCP	Tropospheric ozone creation potential
ADP-m&m	Abiotic Depletion for non-fossil resources potential
ADP-fossil	Abiotic Depletion for fossil resources potential
WDP	Water deprivation potential

Resource indicators	
PENRE	Use of non-renewable primary energy excluding renewable primary energy resources used as raw material
PENRM	Use of non-renewable primary energy resources used as raw material
PENRT	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)
PERE	Use of renewable primary energy excluding non-renewable primary energy resources used as raw material
PERM	Use of renewable primary energy resources used as raw material
PERT	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)

Secondary materials, water and energy resources	
SM	Use of secondary materials
RSF	Use of renewable secondary fuels
NRSF	Use of non-renewable secondary fuels
FW	Net use of fresh water

Output flow indicators	
CfRu	Components for re-use
MfR	Materials for recycling
MfER	Materials for energy recovery
EE	Exported Energy

Waste category indicators	
HWD	Hazardous waste disposed
N-HWD	Non-hazardous waste disposed
RWD	Radioactive waste disposed

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