

SAGA - SOCKET OUTLETS AND OUTLET WITH SHUTTERS FOR FLUSH PRODUCTS

PEP ecopassport®

Product Environmental Profile





Product Environmental Profile - PEP Ecopassport.

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

ORGANIZATION		CONTACT INFORMATION	CONTACT INFORMATION					
ABB Oy, Wiring Accessories		ella.helynranta@fi.abb.com	ella.helynranta@fi.abb.com					
ADDRESS		WEBSITE	WEBSITE					
Porvoon Sisäkehä 2, 06100 Porvoo, Finland		www.new.abb.com	www.new.abb.com					
STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REGISTRATION NUMBER REV. LANG.					
Approved	Public	ABBG-00321-V02.01-EN	2	en	1/11			

ABB Purpose & Embedding Sustainability

ABB is committed to continually promoting and embedding sustainability across its operations and value chain, aspiring to become a role model for others to follow. With its ABB Purpose, ABB is focusing on reducing harmful emissions, preserving natural resources and championing ethical and humane behavior.

Scan QR code for more information



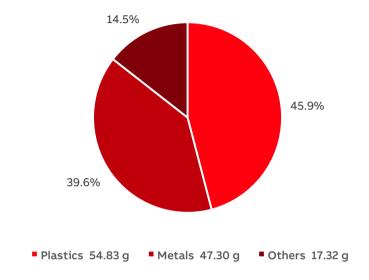


General Information

Reference product	2TKA00004980 / 302EUJ-916
Description of the product	The family of products "SAGA - Socket outlets and outlet with shutters for flush product" is composed of sockets with screwless terminals and 2 X-terminals. The terminals are for max 2 rigid wires. All the sockets of the family include a socket insert and a rocker.
Functional unit	Socket to connect to the power supply of a load consuming 16A under a voltage of 250V while protecting the user from direct contact with live parts and with a protec-tion class IP21 for a reference life 20 years.
Other products covered	List of other products covered or a reference to page 9.10.11

		REV.	LANG.	PAGE
Approved Public ABBG-0	00321-V02.01-EN 2	2	en	2/11





Total weight of Reference product

119.45 g

Name and CAS numberWeight%Name and CAS numberWeight%Name and CAS numberWeight%Bio-circular PC32.2Steel20.7Cardboard box (unit)7.4PC6.2Brass17.8Cardboard box (macro)4.6Polyamide With Glass Fiber7.5Stainless Steel1.1Packaging film2.5	Plastics as % of weight		Metals as % of weight		Others as % of weight		
Bio-circular PC 32.2 Steel 20.7 (unit) 7.4 PC 6.2 Brass 17.8 Cardboard box (macro) 4.6 Polyamide With 7.5 Stainless Steel 1.1 Packaging film 2.5		Weight%		Weight%		Weight%	
PC 6.2 Brass 17.8 (macro) 4.6 Polyamide With 7.5 Stainless Steel 1.1 Packaging film 2.5	Bio-circular PC	32.2	Steel	20.7		7.4	
7.5 Stainless Steel 1.1 Packaging film 2.5	PC	6.2	Brass	17.8		4.6	
	•	7.5	Stainless Steel	1.1	Packaging film	2.5	

The reference product and other products in this range are 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. Plastics used for the reference product are halogen-free materials (IEC/61249-2-21) and they are also recyclable.

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE		
Approved	Public	ABBG-00321-V02.01-EN	2	en	3/11		
© Copyright 2024 ABB. All rights reserved.							



Additional Environmental 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.
Distribution	Includes the transportation of the packaged product from the manufacturer's last logistic platform to the distributor.
Installation	Includes the manual installation of the products and the end-of life of packaging.
Use	Energy consumption is calculated by following the use scenario of the corresponding PSR: a use time rate of 50% of the reference lifetime and a load rate of 50% of the maximum intensity.
End of life	Includes the transportation of the product to the final end-of-life treatment site and treatment processes.
Benefits and loads beyond the system boundaries	Prevented impacts of recycling materials.

LANG. PAG	REV.	REGISTRATION NUMBER	SECURITY LEVEL	STATUS
en 4/11	2 6	ABBG-00321-V02.01-EN	Public	Approved
	2	ABBG-00321-V02.01-EN	Public	Approved

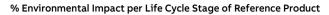


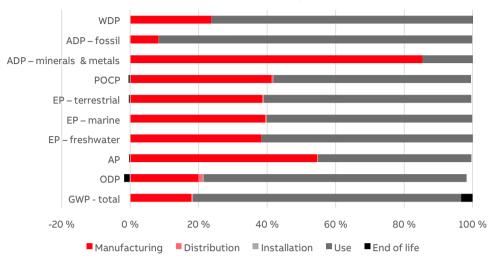
Environmental Impacts

Reference lifetime	20 years
Product category	Sockets
Installation elements	End-of-life of the packaging components
Use scenario	Europe
Geographical representativeness	Global
Technological representativeness	Materials and processes data are specific for the production of one Saga - Socket outlet and outlet with shutters for Flush products
Software and database used	Simapro 9.3 and Ecoinvent 3.8
Energy model used	
Manufacturing	Finnish Energy Mix at low voltage obtained from IEA data
Installation	Non-applicable
Use	Europe
End of life	Recycling of product and packaging (Europe).

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE	
Approved	Public	ABBG-00321-V02.01-EN	2	en	5/11	
© Copyright 2024 ARR All rights reserved						

Common base of mandatory indicators





Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
GWP-total	kg CO ₂ eq.	2.48E+00	4.43E-01	7.24E-03	5.58E-03	1.94E+00	8.33E-02	-4.62E-0
GWP-fossil	kg CO ₂ eq.	2.41E+00	5.40E-01	7.23E-03	3.55E-03	1.88E+00	-1.92E-02	-4.60E-0
GWP-biogenic	kg CO ₂ eq.	3.75E-02	-9.85E-02	6.42E-06	2.03E-03	3.14E-02	1.03E-01	-1.88E-0
GWP-luluc	kg CO ₂ eq.	3.36E-02	6.96E-04	2.87E-06	6.30E-07	3.29E-02	-2.85E-05	-2.00E-0
GWP-biogenic = Glo GWP-luluc = Global	_	-		ange				
ODP	eq.	1.31E-07	2.70E-08	7.23E-03	3.55E-03	1.88E+00	-1.92E-02	-4.60E-0
ODP = Depletion po	otential of the st	ratospheric	ozone layer					
AP	H+ eq.	1.97E-02	1.09E-02	3.18E-05	8.07E-06	8.91E-03	-6.92E-05	-1.69E-0
AP = Acidification p	ootential, Accum	ulated Exce	edance					
EP-freshwater	kg P eq.	1.27E-04	4.88E-05	5.04E-08	1.07E-08	7.83E-05	4.48E-08	-8.19E-0
EP-marine	kg N eq.	2.35E-03	9.27E-04	9.34E-06	2.63E-06	1.41E-03	-3.10E-06	-3.00E-0
EP-terrestrial	mol N eq.	2.83E-02	1.10E-02	1.03E-04	2.83E-05	1.73E-02	-1.13E-04	-3.20E-0
EP-freshwater = Eu		ial, fraction	of nutrients read	ching marine e		rtment		
EP-marine = Eutrop EP-terrestrial = Eut	rophication pot	ential, Accul	mulated Exceeda					
'	kg NMVOC eq.	7.73E-03	3.22E-03	3.12E-05	8.36E-06	4.50E-03	-3.55E-05	-1.23E-0
EP-terrestrial = Eut	kg NMVOC eq.	7.73E-03	3.22E-03		8.36E-06	4.50E-03	-3.55E-05	-1.23E-0
EP-terrestrial = Eut	kg NMVOC eq.	7.73E-03	3.22E-03		8.36E-06 5.67E-09	4.50E-03 3.82E-05	-3.55E-05 6.65E-08	-1.23E-0

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE			
Approved	Public	ABBG-00321-V02.01-EN	2	en	6/11			
© Copyright 2024 ABB. All rights reserved.								

3.25E-04

1.39E-04

1.01E+00

2.16E-03

-1.39E-01

3.16E-01

WDP

WDP = Water Deprivation potential

m³ eq. depr. 1.33E+00

Common base of mandatory indicators

Inventory flows indicator - Resource use indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
PERE	МЈ	8.83E+01	4.59E+00	1.09E-01	2.72E-02	8.37E+01	-1.07E-01	-5.26E+00
PERM	MJ	1.49E+00	1.49E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	МЈ	8.98E+01	6.08E+00	1.09E-01	2.72E-02	8.37E+01	-1.07E-01	-5.26E+00
PENRE	МЈ	7.75E-02	0.00E+00	1.21E-05	5.69E-06	7.75E-02	5.33E-06	-3.30E-03
PENRM	МЈ	7.85E-03	7.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	МЈ	8.54E-02	7.85E-03	1.21E-05	5.69E-06	7.75E-02	5.33E-06	-3.30E-03

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials

PERM = Use of renewable primary energy resources used as raw materials

PERT = Total Use of renewable primary energy resources

PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials

PENRM = Use of non-renewable primary energy resources used as raw materials

PENRT = Total Use of non-renewable primary energy resources

Inventory flows indicator – Indicators describing the use of secondary materials, water, and energy resources

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	МЈ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	МЈ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m³	8.54E-02	7.85E-03	1.21E-05	5.69E-06	7.75E-02	5.33E-06	-3.30E-03

SM = Use of secondary material

RSF = Use of renewable secondary fuels

NRSF = Use of non-renewable secondary fuels

FW = Use of net fresh water

Inventory flows indicator - Waste category indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
Hazardous waste disposed	kg	9.75E-05	6.96E-05	2.83E-07	7.35E-08	2.74E-05	7.59E-08	-6.32E-06
Non- hazardous waste disposed	kg	3.52E-01	1.32E-01	5.56E-03	3.23E-03	2.52E-01	-4.12E-02	-3.86E-02
Radioactive waste disposed	kg	1.08E-03	2.07E-05	7.38E-07	1.90E-07	1.06E-03	-1.16E-06	-1.57E-06

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00321-V02.01-EN	2	en	7/11
@ Consider 2024 ARR All sinks some					

Common base of mandatory indicators

Inventory flows indicator – Output flow indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
Components for re- use	kg	2.31E-04	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	2.25E-02	9.55E-04	0.00E+00	8.04E-03	0.00E+00	1.35E-02	0.00E+00
Materials for energy recovery	kg	8.17E-04	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	МЈ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Inventory flow indicator – other indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
Biogenic carbon content of the product	kg of C	2.72E-02	2.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	kg of C	7.14E-03	7.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00321-V02.01-EN	2	en	8/11
© Copyright 2024 ABB. All rights reserved.					

Extrapolation Factors

For other products than the Reference product covered by this PEP, the environmental impacts for each phase of the lifecycle are obtained by multiplying the values of the Reference product by the following coefficients:

* if the coefficient is "1", the impacts of the phase of the life cycle are assimilated to the Reference product, meaning that the impacts are unchanged in comparison to the Reference product

Product name	Manu- facturing	Distri- bution	Installation	Use	End of life	Benefits
2TKA00004980	1.00	1.00	1.00	1.00	1.00	1.00
2TKA00004876	0.90	0.90	0.90	1.02	0.70	0.90
2TKA00004877	0.67	0.67	0.67	1.50	0.72	0.67
2TKA00004878	0.90	0.90	0.90	1.50	0.88	0.90
2TKA00004879	0.90	0.90	0.90	1.00	0.86	0.90
2TKA00004882	0.91	0.91	0.91	1.00	1.29	0.91
2TKA00004881	0.97	0.97	0.97	1.00	0.90	0.97
2TKA00004982	1.00	1.00	1.00	1.00	1.00	1.00
2TKA00005205	23.02	23.02	40.26	1.00	43.18	23.02
2TKA00005206	23.02	23.02	40.26	1.00	47.35	23.02

Approved	Public	ABBG-00321-V02.01-EN	2	en		
© Copyright 2024 ABB. All rights reserved.						

REGISTRATION NUMBER

REV.

LANG.

PAGE 9/11

SECURITY LEVEL

STATUS

Environmental Impact Indicator Glossary

Impact indicators

Indicator	Description	Distri- bution
Global warming potential (GWP) - total	Indicator of potential global warming caused by emissions to air contributing to the greenhouse effect. The total global warming potential (GWP-total) is the sum of three subcategories of climate change. GWP-total = GWP-fossil + GWP-biogenic + GWP- land use and land use change	kg CO₂ eq.
Ozone depletion (ODP)	Emissions to air that contribute to the destruction of the stratospheric ozone layer	kg CFC-11 eq.
Acidification of soil and water (A)	Acidification of soils and water caused by the release of certain gases to the atmosphere, such as nitrogen oxides and sulphur oxides	H+ eq.
Eutrophication (E)	Indicator of the contribution to eutrophication of water by the enrichment of the aquatic ecosystem with nutritional elements, e.g. industrial or domestic effluents, agriculture, etc. This indicator is divided to three: freshwater, marine and terrestrial.	kg P eq., kg N eq., mole N eq.
Photochemical ozone creation (POCP)	Indicator of emissions of gases that affect the creation of photochemical ozone in the lower atmosphere (smog) because of the rays of the sun.	kg NMVOC eq.
Depletion of abiotic resources - elements (ADPe)	Indicator of the depletion of natural non-fossil resources	kg Sb eq.
Depletion of abiotic resources – fossil fuels (ADPf)	The use of non-renewable fossil resources in an unsustainable way (e.g. from material to waste)	MJ (lower heating value)
Water Deprivation potential (WDP)	Deprivation-weighted water consumption. Assesses the potential of water deprivation, to either humans or ecosystems, building on the assumption that the less water remaining available per area, the more likely another user will be deprived.	m³ eq. depr.

Resource use indicators

Indicator	Description	Distri- bution
Total use of primary energy	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) + Total use of renewable primary energy re-sources (primary energy and primary energy resources used as raw materials)	MJ (lower heating value)

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00321-V02.01-EN	2	en	10/11
© Copyright 2024 ABB. All rights reserved.					

Registration number: ABBG-00321-V02.01-EN	Drafting Rules: PCR-ed4-EN-2021 09 06			
	Supplemented by: PSR-0005-ed2-EN—2016 03 29			
Verifier accreditation number: VH26	Information and reference documents: www.pep-ecopassport.org			
Date of issue: March-2024	Validity period: 5 years			
Independent verification of the declaration and data, in complian	nce with ISO 14025: 2006			
Internal: ○ External: ®				
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)				
PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019 The elements of the present PEP cannot be compared with elemer	nts from any other program.			
Document in compliance with ISO 14025: 2006 "Environmental lab environmental declarations"	TODAT			

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00321-V02.01-EN	2	en	11/11