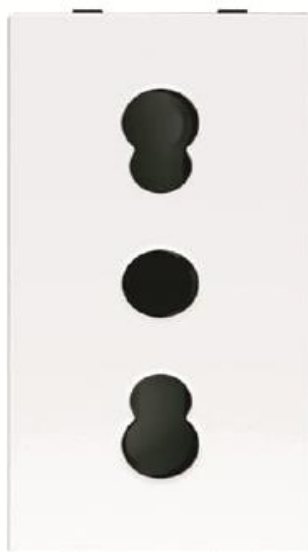


OTHER EQUIPMENTS

Product Environmental Profile

Environmental Product Declaration



According to ISO 14040 and ISO 14044
 "PCR Product Category Rules for Electrical, Electronic and HVAC-R Products" (PCR-ed3-EN-2015 04 02)
 "PSR Specific Rules for Electrical Switchgear and control gear Solutions"(PSR-0005-ed2-EN—2016 03 29)
 Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations"

ORGANIZATION		CONTACT INFORMATION			
ABB Niessen		Lide Brito - lide.brito@es.abb.com			
ADDRESS		WEBSITE			
Aranguren Pol., 6, 20180 Oiartzun, Gipuzkoa		www.new.abb.com			
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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.

ABB is also engaged with the Ellen MacArthur Foundation.



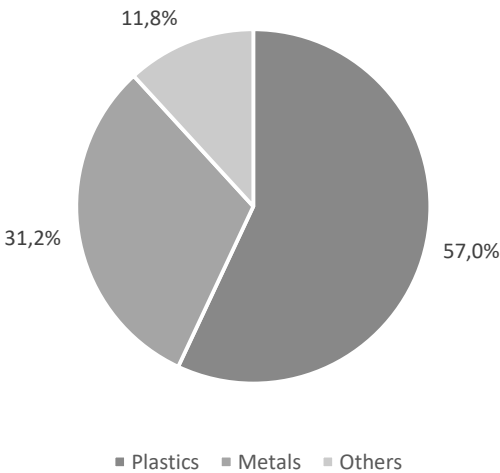
General Information

Reference product	2CLA213300N1101 Zenit Italy P17/P11 socket outlet white
Description of the product	<p>The Zenit Italy P17/P11 socket outlet are a group of sockets with high performances.</p> <p>This Zenit Italy P17/P11 socket outlet allows electricity-operated appliances to be connected to the mains and to be safely supplied with electricity in order to operate.</p>
Functional unit	Connect/Disconnect during 20 years the plug of a load consuming 10 A under a voltage of 250 Vac while protecting the user from direct contact with live parts and with a protection class IP20. The functional unit is based on the use scenario recommended by the PCR for the category of the reference product.
Other products covered	<p>Zenit Italy P17/P11 socket outlet (AN, BL, PL, CV, RJ)</p> <p>Zenit Italy P11 1M socket outlet (AN, BL, PL, CV, RJ)</p>

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Constituent materials



Total weight of Reference product	28,61 g
Total weight of product packaging	3,38 g

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-%
PC	54,2	Brass	20,6	Carboard box and tray	11,8
PA	2,8	Galvanizel steel	10,3	–	–
–	–	Low-carbon steel	0,3	–	–

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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 in its packaging from the manufacturer's last logistic platform to the distributor.
Installation	Installation stage includes the installation of the products made manually.
Use	Energy consumption is calculated by following the PSR. The energy models used in this phase are the specific energy mixes based on ABB distribution.
End of life	Includes its transportation from the installation site to the final end of life treatment site, and end of life treatment processes. A value of 300 km transport by lorry is used for the transportation.
Software and database used	Simapro 9.3.0.3 and Ecoinvent v3.8
Standards	"PCR Product Category Rules for Electrical, Electronic and HVAC-R Products" (PCR-ed3-EN-2015 04 02) and - "PSR Specific Rules for Electrical Switchgear and control gear Solutions"(PSR-0005-ed2-EN—2016 03 29)



Environmental impacts

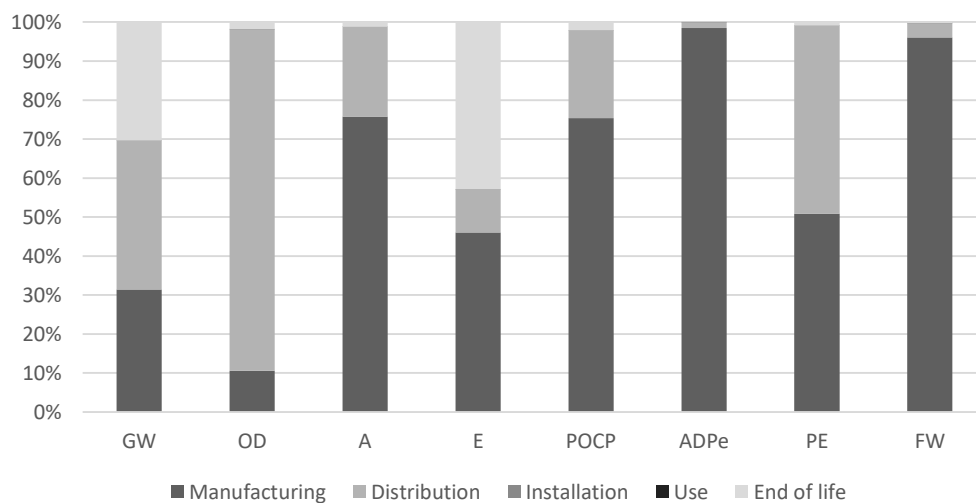
Reference lifetime	20 years
Product category	Sockets
Installation elements	Installation carried out manually
Use scenario	Italy
Geographical representativeness	Global
Technological representativeness	Materials and processes data are specific for the production of Zenit Italy P17/P11 socket outlet.
Energy model used	
Manufacturing	A specific mix of ABB's trading company has been used
Installation	Non-applicable
Use	Electricity, low voltage {IT}] market for Cut-off, S
End of life	Non-applicable

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Compulsory Indicators

Impact indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Global warming (GW)	kg CO ₂ eq.	6,89E-01	2,16E-01	2,63E-01	0,00E+00	3,33E-05	2,09E-01
Ozone depletion (OD)	kg CFC- 11 eq.	5,57E-08	5,89E-09	4,88E-08	0,00E+00	4,05E-12	1,04E-09
Acidification of soil and water (A)	kg SO ₂ eq.	3,64E-03	2,76E-03	8,38E-04	0,00E+00	1,40E-07	4,35E-05
Eutrophication (E)	kg (PO ₄) ³ eq.	1,69E-03	7,79E-04	1,87E-04	0,00E+00	3,68E-08	7,25E-04
Photochemical ozone creation (POCP)	kg C ₂ H ₄ eq.	1,52E-04	1,15E-04	3,43E-05	0,00E+00	6,81E-09	3,29E-06
Depletion of abiotic resources – elements (ADPe)	kg Sb eq.	6,07E-05	5,98E-05	9,25E-07	0,00E+00	3,35E-10	2,14E-08
Resource use indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Total use of primary energy (PE)	MJ	8,46E+00	4,30E+00	4,08E+00	0,00E+00	6,94E-04	7,69E-02
Net freshwater use (FW)	m ³	3,37E-01	3,24E-01	1,21E-02	0,00E+00	2,24E-05	1,03E-03

% Environmental Impact per Life Cycle Stage of Reference Product



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Optional Indicators

Resource use indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	1,34E+00	1,28E+00	5,67E-02	0,00E+00	1,75E-04	3,32E-03
Use of renewable primary energy resources as raw materials	MJ	5,66E-02	5,66E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renewable primary energy resources	MJ	1,40E+00	1,34E+00	5,67E-02	0,00E+00	1,75E-04	3,32E-03
Use of non-renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	2,73E+00	2,73E+00	2,72E-05	0,00E+00	1,49E-09	4,10E-07
Use of non-renewable primary energy resources as raw materials	MJ	2,36E-01	2,36E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of non-renewable primary energy resources	MJ	2,96E+00	2,96E+00	2,72E-05	0,00E+00	1,49E-09	4,10E-07
Use of secondary materials	kg	8,57E-04	8,57E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00

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Optional Indicators

Waste category indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Hazardous waste disposed	kg	2,91E-05	1,82E-05	1,05E-05	0,00E+00	1,04E-09	3,98E-07
Non-hazardous waste disposed	kg	3,93E-01	3,77E-02	2,07E-01	0,00E+00	1,84E-06	1,48E-01
Radioactive waste disposed	kg	3,45E-05	6,89E-06	2,72E-05	0,00E+00	1,49E-09	4,10E-07
Output flow indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Materials for recycling	kg	2,80E-02	3,86E-03	0,00E+00	0,00E+00	0,00E+00	2,41E-02
Materials for energy recovery	kg	1,61E-03	2,09E-04	0,00E+00	0,00E+00	0,00E+00	1,40E-03
Components for reuse	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

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For other products than the Reference product covered by this PEP, the environmental im-pacts 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

The main differences between the products are the color and weight. To see how these affect the results a sensitivity analysis is conducted. It has been observed that the significant changes in the product are derived from the size of the holes of the cover, therefore the extrapolation coefficient will be based on the weight of the product in this case.

Product name	Manufacturing	Distribution	Installation	Use	End of life
Zenit Italy P17/P11 socket outlet AN	1,00	1,00	1,00	1,00	1,00
Zenit Italy P17/P11 socket outlet BL	1,00	1,00	1,00	1,00	1,00
Zenit Italy P17/P11 socket outlet PL	1,00	1,00	1,00	1,00	1,00
Zenit Italy P17/P11 socket outlet CV	1,00	1,00	1,00	1,00	1,00
Zenit Italy P17/P11 socket outlet RJ	1,00	1,00	1,00	1,00	1,00
Zenit Italy P11 1M socket outlet AN	0,94	0,94	1,00	1,00	0,94
Zenit Italy P11 1M socket outlet BL	0,94	0,94	1,00	1,00	0,94
Zenit Italy P11 1M socket outlet PL	0,94	0,94	1,00	1,00	0,94
Zenit Italy P11 1M socket outlet CV	0,94	0,94	1,00	1,00	0,94
Zenit Italy P11 1M socket outlet RJ	0,94	0,94	1,00	1,00	0,94

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Environmental Impact Indicator Glossary

Impact indicators	Description	Unit
Global warming (GW)	Indicator of potential global warming caused by emissions to air contributing to the greenhouse effect. Includes fossil and biogenic	kg CO ₂ eq.
Ozone depletion (OD)	Indicator of emissions to air that contribute to the destruction of the ozone layer	kg CFC-11 eq.
Acidification of soil and water (A)	Indicator of the potential acidification of soils and water caused by the release of certain gases to the atmosphere	kg SO ₂ 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.	kg (PO ₄) ³ 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 C ₂ H ₄ eq.
Depletion of abiotic resources – elements (ADPe)	Indicator of the depletion of natural non-fossil resources	kg Sb eq.

Resource use indicators	Description	Unit
Total use of primary energy (PE)	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) + Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ (lower heating value)

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Verifier accreditation number:	Information and reference documents:		
VH42	www.pep-ecopassport.org		
Date of issue:	12/2022	Validity period:	5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2010			
Internal <input type="radio"/>		External <input checked="" type="radio"/>	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
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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