

TIMER

PEP ecopassport®

Product Environmental Profile





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

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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.

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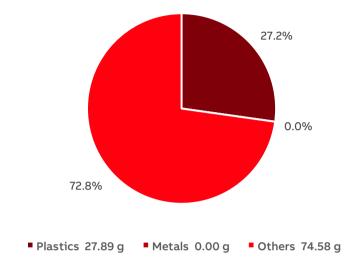


General Information

Reference product	2TKA00005221 The content of this PEP cannot be compared with content based on another program.
Description of the product	The PRODUCT "TIMER" is a timer wall outlet. Which is available in Saga, Jussi and Impressivo product ranges.
Functional unit	Timers with exchangeable labels with the time options to mark center plate with selected time. IP21, 2-pole wiring. 10A resistive load (2300 W), 2AX-load (e.g., fluorescent lamp). Screw terminals max 2,5mm2. Signal light on when device is active. 71x71mm. RLS 10 years.
Other products covered	The other products coverd by this PEP are listed on page 9

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Total weight of Reference product

102.47 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%	
Bio-circular PC (Polycarbonate)	14.1	-	_	РСВА	46.5	
PC	13.2	-	-	Carton	26.0	
-	-	-	-	Paper	0.3	

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. Plastics used for the reference product are halogenfree materials (IEC/61249-2-21) and they are also recyclable.

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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; as well as the generated wastes during the manufacturing process.
Distribution	Includes the transportation of the packaged product from the manufacturer's last logistic platform to the distributor and then to end users.
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: Consumed power for each operating mode identified and the duration of the operation modes expressed as percentage of the full cycle time. 80% in Standby mode (5.71W) and 20% in On mode (5.23W).
End of life	Includes the transportation of the product to the final end-of- life treatment site and treatment processes. A value of 100 km transport by lorry is used for the transportation.
Benefits and loads beyond the system boundaries	Prevented impacts of recycling materials.

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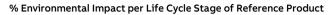


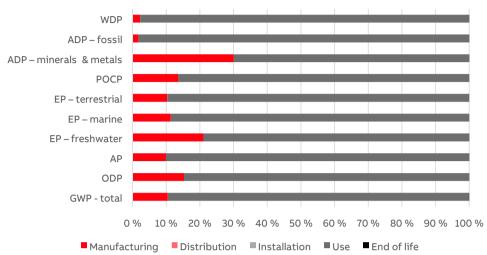
Environmental Impacts

Reference lifetime	10 years
Product category	Other equipment – Active products
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-TIMER
Software and database used	Simapro 9.5.0.1 and Ecoinvent 3.9
Energy model used	
Manufacturing	Poland energy mix at high voltage obtained from IEA data
Installation	Non-applicable
Use	Customers' electricity mix at low voltage (Finland, Sweden, Hungary, South Africa and Lithuania)
End of life	Recycling of product and packaging

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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.	4.10E+01	4.29E+00	6.13E-03	3.99E-03	3.66E+01	5.99E-02	-3.06E+00
GWP-fossil	kg CO ₂ eq.	3.90E+01	4.28E+00	6.13E-03	8.44E-05	3.46E+01	5.76E-02	-3.04E+00
GWP-biogenic	kg CO ₂ eq.	3.71E-01	9.81E-03	1.92E-06	3.91E-03	3.55E-01	2.22E-03	-8.05E-03
GWP-luluc	kg CO ₂ eq.	1.62E+00	7.80E-03	3.05E-06	5.88E-08	1.61E+00	1.75E-05	-5.61E-03
GWP-fossil = Globa GWP-biogenic = Glo GWP-luluc = Global	obal Warming Po	tential biog	genic	ange				
ODP	kg CFC-11 eq.	1.01E-06	1.55E-07	6.13E-03	8.44E-05	3.46E+01	5.76E-02	-3.04E+00
ODP = Depletion po	otential of the st	ratospherio	ozone layer					
AP	H+ eq.	3.11E-01	3.08E-02	2.72E-05	1.47E-06	2.80E-01	8.48E-05	-3.36E-02
AP = Acidification p	otential, Accum	ulated Exce	edance					
EP-freshwater	kg P eq.	2.59E-03	5.45E-04	4.79E-08	2.00E-09	2.04E-03	4.77E-07	-5.20E-04
EP-marine	kg N eq.	4.33E-02	4.93E-03	8.52E-06	4.47E-06	3.83E-02	2.97E-05	-4.86E-03
EP-terrestrial	mol N eq.	5.46E-01	5.62E-02	9.18E-05	5.90E-06	4.90E-01	2.94E-04	-5.77E-02
EP-freshwater = Eu EP-marine = Eutrop EP-terrestrial = Eut	hication potent	ial, fraction	of nutrients read	ching marine e		rtment		
POCP	kg NMVOC eq.	1.56E-01	2.12E-02	3.46E-05	2.95E-06	1.34E-01	1.00E-04	-2.17E-02
POCP = Formation	potential of trop	ospheric o	zone					
						1015.00		
ADP-minerals & metals	kg Sb eq.	2.78E-03	8.36E-04	1.91E-08	4.34E-10	1.94E-03	1.01E-07	-1.49E-03

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3.46E-04

3.14E-05

3.94E+01

3.80E-03

-7.91E-01

9.26E-01

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WDP = Water Deprivation potential

WDP

ADP-fossil = Abiotic depletion for fossil resources potential

m³ eq. depr. 4.03E+01

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	1.29E+03	5.73E+00	1.31E-03	1.68E-04	1.29E+03	1.45E-02	-4.55E+00
PERM	МЈ	2.60E-01	2.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	МЈ	1.29E+03	5.99E+00	1.31E-03	1.68E-04	1.29E+03	1.45E-02	-4.55E+00
PENRE	МЈ	3.18E+03	5.47E+01	8.64E-02	1.22E-03	3.13E+03	2.72E-01	-4.18E+01
PENRM	МЈ	9.96E-01	9.96E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	МЈ	3.18E+03	5.57E+01	8.64E-02	1.22E-03	3.13E+03	2.72E-01	-4.18E+01

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	2.75E+00	5.14E-02	1.21E-05	2.75E-06	2.70E+00	1.24E-04	-2.71E-02

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	1.25E+01	4.80E-01	4.07E-03	2.47E-03	1.20E+01	2.44E-02	-3.51E-01
Non- hazardous waste disposed	kg	4.54E-02	1.03E-04	2.73E-08	2.58E-09	4.53E-02	2.38E-07	-8.28E-05
Radioactive waste disposed	kg	1.29E+03	5.99E+00	1.31E-03	1.68E-04	1.29E+03	1.45E-02	-4.55E+00

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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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	8.38E-02	0.00E+00	0.00E+00	2.21E-02	0.00E+00	6.17E-02	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	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	0.00E+00	0.00E+00	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	1.35E-02	1.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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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
2TKA00000874	0.98	0.98	1.00	1.00	0.97	0.97
2TKA00000875	1.28	1.28	1.00	1.00	1.38	1.38
2TKA00005221	1.00	1.00	1.00	1.00	1.00	1.00
2TKA00002334	1.07	1.07	1.00	1.00	1.09	1.09
2TKA00004108	1.02	1.02	1.00	1.00	1.03	1.03
2TKA00000876	1.28	1.28	1.00	1.00	1.38	1.38
2TKA00000877	1.02	1.02	1.00	1.00	1.03	1.03
2TKA00004843	1.02	1.02	1.00	1.00	1.03	1.03
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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)

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