SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

15138-10-1022

KNX- Reiheneinbaugeräte & Zubehör

Product group: Systems - Systems - Electrical installation

BUSCH-JAEGER

ABB AG BUSCH-JAEGER
Freisenbergstrasse 2
58513 Lüdenscheid

Product qualities:

- QNG – Qualitätssiegel Nachhaltiges Gebäude
- DGNB NEW CONSTRUCTION 2023.2
- DGNB NEW CONSTRUCTION 2023
- DGNB NEW CONSTRUCTION 2018
- BNB-BN NEUBAU V2015
- EU TAXONOMY
- BREEAM DE NEUBAU 2018
- LEED v4.1 (outside US)

CERTIFIED SUSTAINABLE PRODUCT – SHI PRODUCT PASSPORT – SENTINEL HOLDING INSTITUT – www.sentinel-holding.eu

Köttner

Helmut Köttner
Scientific Director
Freiburg, 26 August 2026

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Product:
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The SHI Database is the first and only database for construction products whose comprehensive processes and data accuracy are regularly verified by the independent auditing company SGS-TÜV Saar

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QNG - Qualitätssiegel Nachhaltiges Gebäude

The Qualitätssiegel Nachhaltiges Gebäude (Quality Seal for Sustainable Buildings), developed by the German Federal Ministry for Housing, Urban Development and Building (BMWSB), defines requirements for the ecological, socio-cultural, and economic quality of buildings. The Sentinel Holding Institut evaluates construction products in accordance with QNG requirements for certification and awards the QNG ready label. Compliance with the QNG standard is a prerequisite for eligibility for the KfW funding programme. For certain product groups, the QNG currently has no specific requirements defined. Although classified as not assessment-relevant, these products remain suitable for QNG-certified projects.

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien			QNG ready - Not relevant for assessment

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DGNB New Construction 2023.2

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact			Not relevant for assessment

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DGNB New Construction 2023

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings. The 2023 version sets high standards for ecological, economic, socio-cultural, and functional aspects throughout the entire life cycle of a building.

Criteria	Assessment
ENV1.1 Climate action and energy (*)	May positively contribute to the overall building score
Verification: EPDs liegen vor. Sensoren und Aktoren für optimierte Gebäudetechnik enthalten.	

Criteria	Assessment
ECO1.1 Life cycle cost (*)	May positively contribute to the overall building score
Verification: Sensoren und Aktoren für optimierte Gebäudetechnik enthalten. I.d.R. keine regelmäßig Wartung erforderlich.	

Criteria	Assessment
SOC1.1 Thermal comfort (*)	May positively contribute to the overall building score
Verification: Regelgeräte für Raumklima (Heizung, Klima, Lüftung) enthalten.	

Criteria	Assessment
SOC1.2 Indoor air quality (*)	May positively contribute to the overall building score
Verification: Regelgeräte .für Raumklima (Heizung, Klima, Lüftung) enthalten	

Criteria	Assessment
SOC1.4 Visual comfort (*)	May positively contribute to the overall building score
Verification: Regelgeräte für helligkeitsabhängige Lichtsteuerung/regelung enthalten.	

Criteria	Assessment
TEC1.4 Use and integration of building technology (*)	May positively contribute to the overall building score
Verification: Sensoren und Aktoren für optimierte Gebäudetechnik enthalten.	

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)			Not relevant for assessment

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)			Not relevant for assessment

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DGNB New Construction 2018

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact			Not relevant for assessment

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BNB-BN Neubau V2015

The Bewertungssystem Nachhaltiges Bauen (Assessment System for Sustainable Building) is a tool for evaluating public office and administrative buildings, educational facilities, laboratory buildings, and outdoor areas in Germany. The BNB was developed by the former Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and is now overseen by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

Criteria	Pos. / product type	Considered substance group	Quality level
1.1.6 Risiken für die lokale Umwelt			Not relevant for assessment

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EU taxonomy

The EU Taxonomy classifies economic activities and products according to their environmental impact. At the product level, the EU regulation defines clear requirements for harmful substances, formaldehyde and volatile organic compounds (VOCs). The Sentinel Holding Institut GmbH labels qualified products that meet this standard.

Criteria	Product type	Considered substances	Assessment
DNSH - Pollution prevention and control			Not relevant for assessment

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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) is a UK-based building assessment system that evaluates the sustainability of new constructions, refurbishments, and conversions. Developed by the Building Research Establishment (BRE), the system aims to assess and improve the environmental, economic, and social performance of buildings.

Criteria	Product category	Considered substances	Quality level
Hea 02 Indoor Air Quality			Not relevant for assessment

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LEED v4.1

LEED (Leadership in Energy and Environmental Design) is an internationally recognised building certification system developed by the U.S. Green Building Council. It is one of the most widely used sustainability standards for buildings worldwide and is particularly applied in internationally oriented projects. LEED assesses buildings holistically across categories such as energy efficiency, resource conservation, material selection, indoor environmental quality and site sustainability. Depending on the number of points achieved, projects are awarded one of the certification levels: LEED Certified, Silver, Gold or Platinum.

Criteria	Product category	Considered substances	Assessment
EQ Credit: Low-Emitting Materials			Not relevant for assessment

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Product labels

In the construction industry, high-quality materials are crucial for a building's indoor air quality and sustainability. Product labels and certificates offer guidance to meet these requirements. However, the evaluation criteria of these labels vary, and it is important to carefully assess them to ensure products align with the specific needs of a construction project.

Products bearing the Sentinel Holding Institute QNG-ready seal are suitable for projects aiming to achieve the "Qualitätssiegel Nachhaltiges Gebäude" (Quality Seal for Sustainable Buildings). QNG-ready products meet the requirements of QNG Appendix Document 3.1.3, "Avoidance of Harmful Substances in Building Materials." The KfW loan program Climate-Friendly New Construction with QNG may allow for additional funding.

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Legal notices

(*) These criteria apply to the construction project as a whole. While individual products can positively contribute to the overall building score through proper planning, the evaluation is always conducted at the building level. The information was provided entirely by the manufacturer.

Find our criteria here: https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfkriterien%20f%C3%BCr%20Produkte

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SGS TÜV SAAR

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STANDARD RANGE (SA/S12.X.2.2)

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 Purpose & Embedding Sustainability

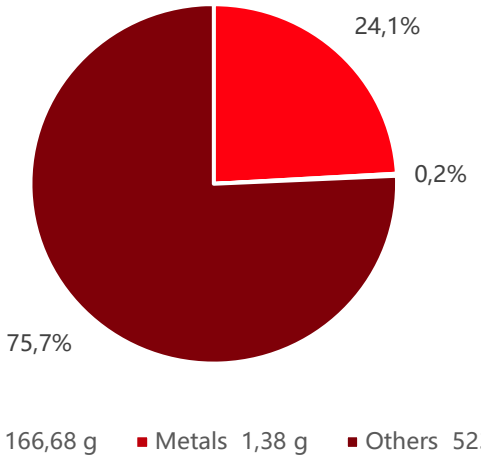
ABB is committed to continually promoting and embedding sustainability across its operations and value chain, aspiring to become a role model for others to follow. With its ABB Purpose, ABB is focusing on reducing harmful emissions, preserving natural resources and championing ethical and humane behavior.

General Information

Reference product	SA/S12.16.2.2 Schaltaktor, 12fach, 16 A (2CDG110264R0011)
Description of the product	The switch actuator uses potential free contacts to switch 12 independent electrical loads via the ABB i-bus®. The rated current is 6A, 10A or 16A. Manual operation and display of the switching state of the contacts.
Functional unit	For switching 12 independent electrical loads with rated current 6A, 10A or 16A and rated voltage 230V, using mutually independent switching relays and potential free contacts, to switch electric consumers individually. The device has a degree of protection IP20. The reference for service life of the product is 10 years.
Other products covered	SA/S12.10.2.2 Schaltaktor, 12fach, 10 A (2CDG110260R0011), SA/S12.6.2.2 Schaltaktor, 12fach, 6 A (2CDG110260R0011), SA-M-12.16.2.2 Schaltaktor, 12fach, 16 A (2CDG510027R0011), SA-M-12.16.2.12 Schaltaktor, 12fach, 16 A (2CDG510027R0021)

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Constituent Materials



Total weight of Reference product	691,6	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%
Polycarbonate	24,1	Stainless steel	0,2	Cardboard - packaging	10,9
–	x	–	x	Active electronic component	0,2
–	x	–	x	PCBA	62,2
–	x	–	x	Paper	2,4

The product is in conformity with the provisions of RoHS directive 2011/65/EU, covering 2015/863(EU), REACH regulation No 1907/2006 and national legislation. The product contains the SVHC lead (CAS 7439-92-1).

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Additional Environmental Information

Manufacturing	The PCBA is manufactured at the Hornberg production site, while final assembly of all components into the Switch/shutter actuator happens at Lüdenscheid. No recycled material content is assumed. All components are transported by lorry from the supplier to these manufacturing sites. The electricity mix on the both manufacturing sites are largely renewable from Scandinavian hydropower and rooftop solar power (80% on Ludenscheid and 100% on Hornberg). Instead of hydropower, a German electricity market mix was modelled to avoid double counting of renewable energy. The remaining power and heating demand is met by combustion of natural gas, for which all CO2 emissions are compensated through ClimatePartner. Nevertheless, this compensation is not accounted for in the model of this EPD. Production waste is assumed to be transported by lorry (100 km by default in the PCR) and treated by recycling. Specific one-year data from 2022 on manufacturing site level was collected and allocated to the product by economic partitioning following the requirements of ISO 14044.
Distribution	The transport scenario is estimated based on the distance to the capital city of the countries it is sold to, according to the sales data for 2022.
Installation	Installation is done manually, without using energy or other auxiliary materials. For treatment of packaging waste, the scenario set by the PSR is followed.
Use	The reference product is on stand-by during 95% of the time with and energy consumption of 0,15W, and is in active mode with a maximum energy consumption of 0,25 W for the remaining 5% of the time. With a reference lifetime of 10 years and 8760 hours per year, this results in a power consumption of 13,58 kWh over the lifetime.
End of life	The standard scenario set in the PCR is considered.
Benefits and loads beyond the system boundaries	Steel has a recovery rate of 80% according to the PCR. The Module D formula from the PCR was used to calculate the benefits of steel. Other materials were not included here, due to a material recovery rate of 0 or lack of recycling in real life scenarios.

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Environmental Impacts

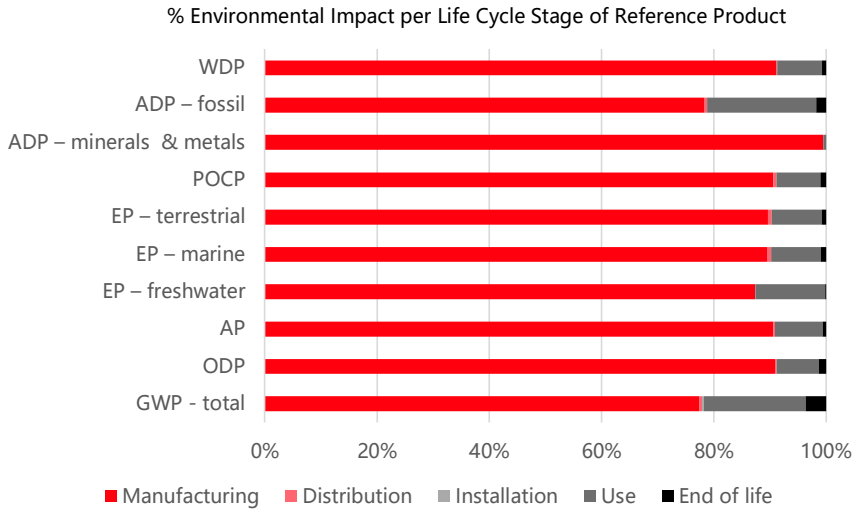
Reference lifetime	10 years
Product category	Other equipment
Installation elements	Not applicable
Use scenario	Active product
Geographical representativeness	DACH+ (Germany, Austria, Switzerland), Europe, MEA (Middle East and Africa) and Asia
Technological representativeness	Materials and process data are specific for the production of the Switch actuator
Software and database used	SimaPro version 9.5.0.1, Ecoinvent 3.9.1, PEF 3.1

Energy model used

Manufacturing	Electricity, high voltage {DE}| market for | Cut-off, U Electricity, low voltage {DE}| electricity production, photovoltaic, 3kWp slanted-roof installation, single-Si, panel, mounted | Cut-off, U Natural gas, high pressure {DE}| market for | Cut-off, S
Installation	A market for electricity from all European countries is included in the dataset used to model the recycling of cardboard ("Electricity, medium voltage {DE}| market group for electricity, medium voltage | Cut-off, S")
Use	Electricity, low voltage {DE}| market for electricity, low voltage | Cut-off, S Electricity, low voltage {Europe without Switzerland}| market group for electricity, low voltage | Cut-off, S Electricity, low voltage {RME}| market group for electricity, low voltage | Cut-off, S Electricity, low voltage {RAS}| market group for electricity, low voltage | Cut-off, S
End of life	Not applicable

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Common base of mandatory indicators



Environmental impact indicators

Indicator	Unit	Total	Manu-facturing	Distri-bution	Installation	Use	End of life	Bene-fits
GWP-total	kg CO_2 eq.	4,31E+01	3,34E+01	2,04E-01	1,23E-01	7,83E+00	1,55E+00	-5,18E-02
GWP-fossil	kg CO_2 eq.	4,21E+01	3,30E+01	2,04E-01	4,74E-03	7,41E+00	1,47E+00	-6,65E-02
GWP-biogenic	kg CO_2 eq.	9,01E-01	2,96E-01	4,16E-05	1,19E-01	4,08E-01	7,77E-02	1,64E-02
GWP-luluc	kg CO_2 eq.	7,32E-02	6,40E-02	3,60E-05	2,48E-06	9,03E-03	1,50E-04	-1,06E-03
GWP-fossil = Global Warming Potential fossil fuels GWP-biogenic = Global Warming Potential biogenic GWP-luluc = Global Warming Potential land use and land use change								
ODP	kg CFC-11 eq.	1,21E-06	1,10E-06	3,12E-09	1,53E-10	9,13E-08	1,57E-08	-1,98E-09
ODP = Depletion potential of the stratospheric ozone layer								
AP	H+ eq.	3,31E-01	3,00E-01	1,05E-03	2,85E-05	2,80E-02	2,04E-03	-3,37E-04
AP = Acidification potential, Accumulated Exceedance								
EP-freshwater	kg P eq.	5,59E-03	4,89E-03	6,22E-07	8,58E-08	6,97E-04	7,95E-06	-4,62E-06
EP-marine	kg N eq.	5,03E-02	4,50E-02	3,81E-04	1,16E-05	4,46E-03	4,53E-04	-1,79E-04
EP-terrestrial	mol N eq.	5,88E-01	5,27E-01	4,11E-03	1,20E-04	5,21E-02	4,61E-03	-1,04E-03
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-terrestrial = Eutrophication potential, Accumulated Exceedance								
POCP	kg NMVOC eq.	2,16E-01	1,95E-01	1,30E-03	3,36E-05	1,68E-02	2,12E-03	-2,99E-04
POCP = Formation potential of tropospheric ozone								
ADP-minerals & metals	kg Sb eq.	1,23E-02	1,22E-02	1,36E-07	1,16E-08	6,28E-05	1,06E-06	-3,88E-07
ADP-fossil	MJ	5,58E+02	4,37E+02	2,69E+00	4,79E-02	1,08E+02	9,89E+00	-8,85E-01
ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential								
WDP	m³ eq. depr.	8,86E+00	8,08E+00	6,49E-03	3,08E-03	7,03E-01	6,60E-02	-3,33E-02
WDP = Water Deprivation potential								

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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	MJ	7,18E+01	5,06E+01	1,34E-02	5,36E-03	2,12E+01	8,76E-02	-6,08E-02
PERM	MJ	9,99E-01	9,99E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-5,08E-01
PERT	MJ	7,28E+01	5,16E+01	1,34E-02	5,36E-03	2,12E+01	8,76E-02	-5,68E-01
PENRE	MJ	5,57E+02	4,37E+02	2,69E+00	4,79E-02	1,08E+02	9,89E+00	-8,83E-01
PENRM	MJ	6,70E-05	6,70E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	5,57E+02	4,37E+02	2,69E+00	4,79E-02	1,08E+02	9,89E+00	-8,83E-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	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	3,26E-01	2,77E-01	2,15E-04	9,90E-05	4,64E-02	1,93E-03	-1,02E-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	4,38E-01	5,58E-03	0,00E+00	0,00E+00	0,00E+00	4,32E-01	0,00E+00
Non- hazardous waste disposed	kg	3,26E-01	1,29E-01	0,00E+00	1,36E-02	0,00E+00	1,83E-01	0,00E+00
Radioactive waste disposed	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+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	8,71E-01	8,08E-01	0,00E+00	6,20E-02	0,00E+00	1,34E-03	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	MJ	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	6,15E-03	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	3,43E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

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Optional indicators

Environmental indicators

Indicator	Unit	Total	Manu-facturing	Distri-bution	Installation	Use	End of life	Bene-fits
Total use of primary energy during the life cycle	MJ	6,30E+02	4,88E+02	2,70E+00	5,33E-02	1,29E+02	9,98E+00	-1,45E+00
Emissions of fine particles	incidence of diseases	2,11E-06	1,91E-06	5,40E-09	3,07E-10	1,74E-07	2,28E-08	-4,53E-09
Ionizing radiation, human health	kBq U235 eq.	1,74E+00	1,38E+00	5,04E-04	6,58E-05	3,62E-01	2,53E-03	-2,28E-03
Ecotoxicity (fresh water)	CTUe	8,69E+02	8,02E+02	1,42E+00	1,49E-01	1,65E+01	4,93E+01	-6,34E-01
Human toxicity, car-cinogenic effects	CTUh	6,16E-08	5,72E-08	3,56E-11	7,50E-12	2,48E-09	1,86E-09	-8,02E-11
Human toxicity, non-carcinogenic effects	incidence of diseases	1,73E-06	1,60E-06	2,44E-09	3,14E-10	1,07E-07	1,47E-08	-9,14E-10
Impact related to land use/soil quality		2,45E+02	2,23E+02	6,80E-01	3,45E-02	2,01E+01	1,38E+00	-2,64E+00

Other indicators

Indicator	Unit	Total	Manu-facturing	Distri-bution	Installation	Use	End of life	Bene-fits
No Other indicators used								

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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 sub-categories of climate change. GWP-total = GWP-fossil + GWP-biogenic + GWP- land use and land use change	kg CO_2 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.	m^3 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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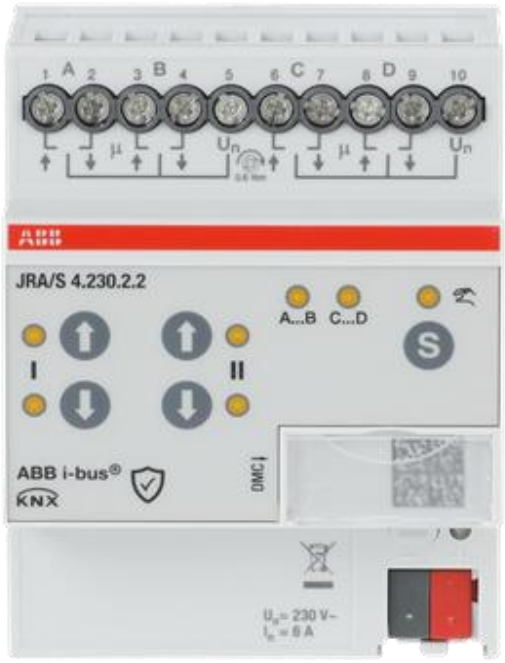
Registration number: **ABBG-00275-V01.01-EN**	Drafting Rules: ***PCR-ed4-EN-2021 09 06*** ***Supplemented by:*** ***PSR-0005-ed3-EN-2023 06 06***
Verifier accreditation number: ***VH32***	Information and reference documents: **www.pep-ecopassport.org**
Date of issue: ***07/03/2024***	Validity period: **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)	
PEP are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022 The elements of the present PEP cannot be compared with elements from any other program.	
Document in compliance with ISO 14025: 2006 "Environmental labels and declarations. Type III environmental declarations"	

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JRA/S4.230.2.2

PEP ecopassport®

Product Environmental Profile



Registration number:	**ABBG-00855-V01.01-EN**	Drafting rules:	**PCR-ed4-EN-2021 09 06**
Contact information:	**Pia Denninghoff (pia.denninghoff@de.abb.com) & L**	Supplemented by:	**PSR-0005-ed3-EN-2023 06 06**
Verifier accreditation number:	**VH08**	Information and reference documents:	**www.pep-ecopassport.org**
Date of issue:	**July-25**	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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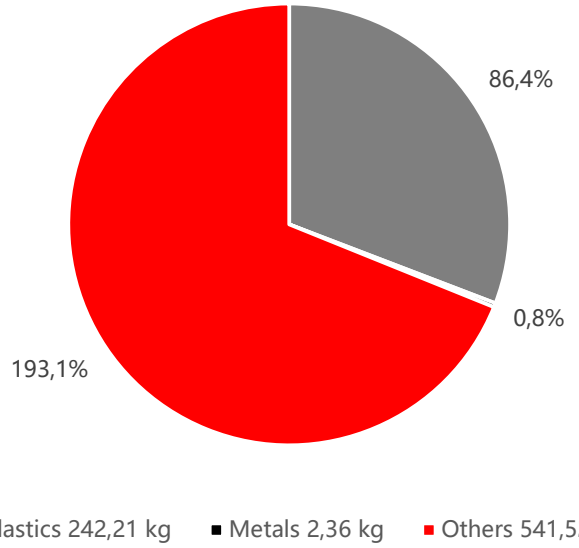
ABB Purpose & Embedding Sustainability

ABB is committed to 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.
The contect of this PEP cannot be compared with the content based on another program/database.
Scan QR code for more information

General information

Reference product	2CDG110285R0011 JRA/S4.230.2.2
Description of the product	For the control of independent 230 V AC motors via ABB i-bus® KNX. The devices are designed for positioning blinds, roller shutters, awnings and other shading products as well as for controlling doors, windows and ventilation flaps. Additional auxiliary voltage is not needed. To protect the motor, the output contacts are electromechanically locked against each other. Push-buttons are located at the front of the device to control the outputs e.g., during commissioning. The current status of the output is displayed via LEDs if the output is selected.
Functional unit	The devise operates with a rated current 6 A and rated voltage 230 V, with IP20 degree of protection for a wall-mounted installation according to the appropriate use scenario, and for the reference service life of the product of 10 years.
Other products covered	Products included in the section ‘Extrapolation Factors’
Manufacturing address	Hauptstrasse 14-16, 78132 Hornberg, Baden-Wurttemberg

Constituent Materials



Total weight of reference product and packaging	**280,4**	**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%
PC	86,4	**Stainless steel**	0,8	**Electronic components**	123,3
				Cardboard	48,8
				Paper	20,8
				Adhesive	0,1

Additional Information

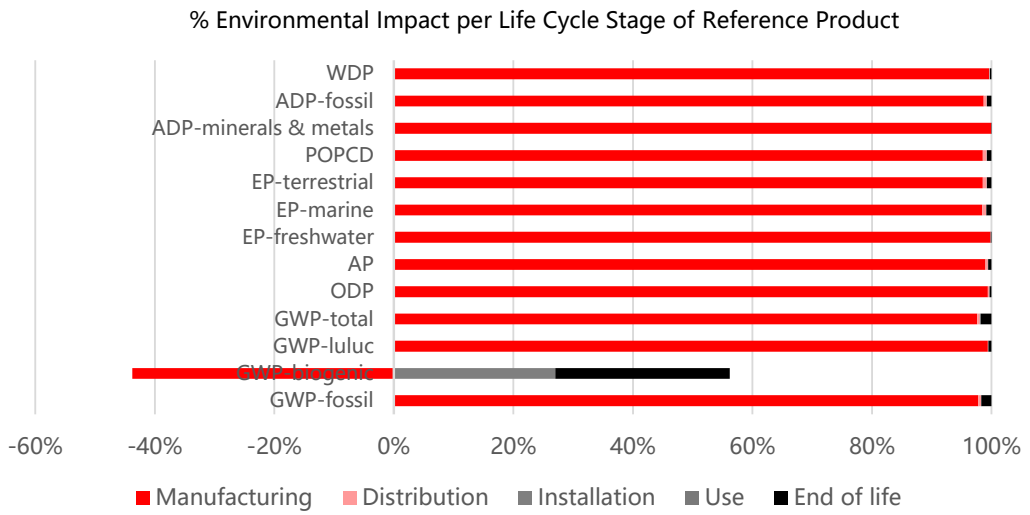
Manufacturing	Includes the environmental impacts associated with extraction and processing of the raw materials used to produce the product and its pacakging, transport to the manufacturing site and assembly.
Distribution	Includes the transportation in its pacakging from the manufacturer's last logistic 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. No maintenance is necessary.
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 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	20 years
Product category	Other Equipment (3.15)
Installation elements	Installation elements
Use scenario	Global
Geographical representativeness	Global
Technological representativeness	Technological representativeness
Software and database used	SimaPro 9.6.0.1 & Ecoinvent 3.10
Energy model used	
Manufacturing	A specific mix of ABB's trading company has been used (Confidentia
Installation	Non-applicable
Use	Non-applicable
End of life	Recycling of product and packaging

Common base of mandatory indicators



Environmental impact indicators

Indicator		Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
GWP	Total	kg CO2 eq.	1,14E+01	1,11E+01	5,48E-02	1,51E-02	0,00E+00	2,05E-01	-8,00E+00
	Fossil	kg CO2 eq.	1,14E+01	1,11E+01	5,48E-02	3,81E-03	0,00E+00	1,93E-01	-7,97E+00
	Biogenic	kg CO2 eq.	5,21E-03	-1,83E-02	3,29E-05	1,12E-02	0,00E+00	1,22E-02	-1,18E-02
	Luluc	kg CO2 eq.	1,56E-02	1,55E-02	1,88E-05	1,22E-06	0,00E+00	7,61E-05	-1,15E-02
ODP		kg CFC-11 eq.	4,06E-07	4,04E-07	1,06E-09	7,88E-11	0,00E+00	1,27E-09	-2,77E-07
AP		H+ eq.	7,46E-02	7,39E-02	2,92E-04	1,90E-05	0,00E+00	4,16E-04	-5,56E-02
EP	Freshwater	kg P eq.	1,39E-03	1,39E-03	4,04E-07	4,83E-08	0,00E+00	1,63E-06	-9,70E-04
	Marine	kg N eq.	1,29E-02	1,27E-02	8,59E-05	7,43E-06	0,00E+00	1,08E-04	-9,31E-03
	Terrestrial	mol N eq.	1,48E-01	1,46E-01	9,49E-04	7,96E-05	0,00E+00	1,07E-03	-1,07E-01
POPCD		kg NMVOC eq.	5,60E-02	5,52E-02	3,47E-04	2,88E-05	0,00E+00	4,25E-04	-4,20E-02
ADP	Minerals & metals	kg SB eq.	2,45E-03	2,44E-03	1,65E-07	1,55E-08	0,00E+00	5,20E-07	-1,78E-03
	Fossil	MJ	1,51E+02	1,49E+02	7,61E-01	4,00E-02	0,00E+00	1,16E+00	-1,07E+02
WDP		m³ eq. depr.	2,81E+00	2,80E+00	3,02E-03	2,54E-04	0,00E+00	7,52E-03	-2,12E+00

Resource use indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
PERE	MJ	1,47E+01	1,46E+01	1,19E-02	1,67E-03	0,00E+00	6,56E-02	-1,11E+01
PERM	MJ	9,22E-01	9,22E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	1,56E+01	1,55E+01	1,19E-02	1,67E-03	0,00E+00	6,56E-02	-1,11E+01
PENRE	MJ	1,48E+02	1,46E+02	7,61E-01	4,00E-02	0,00E+00	1,16E+00	-1,07E+02
PENRM	MJ	2,55E+00	2,55E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	1,51E+02	1,49E+02	7,61E-01	4,00E-02	0,00E+00	1,16E+00	-1,07E+02

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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	0,00E+00	0,00E+00	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	m³	9,99E-02	9,96E-02	1,01E-04	1,35E-05	0,00E+00	2,53E-04	-7,11E-02

Waste category indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
HWD	kg	1,20E-03	1,19E-03	5,03E-06	2,58E-07	0,00E+00	7,24E-06	-9,27E-04
N-HWD	kg	5,12E-01	4,28E-01	3,35E-02	7,19E-03	0,00E+00	4,28E-02	-3,11E-01
RWD	kg	3,02E-04	3,01E-04	2,31E-07	3,82E-08	0,00E+00	8,18E-07	-2,14E-04

Output flow indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
CfRu	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MfR	kg	3,08E-01	2,15E-01	0,00E+00	4,05E-02	0,00E+00	5,23E-02	0,00E+00
MfER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EE	MJ	0,00E+00	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	3,05E-02

Extrapolation Factors

For products other than the Reference product covered by this PEP, the environmental impacts for each phase of the life cycle are obtained by multiplying the values of the Reference product by the extrapolation factors provided in the tables below, with the following formulas:

$$y = a * x0$$

Where:
y is the selected impact category
a is the extrapolation factor from the tables below
x0 is the environmental indicator of the reference product

All stages

Order code	Manufacturing stage	Distribution stage	Installation stage	Use stage	End-of-life stage	Benefits stage
2CDG110284R0011 JRA/S2.230.2.2	8,52E-01	8,52E-01	1,00E+00	0,00E+00	7,88E-01	7,88E-01
2CDG110285R0011 JRA/S4.230.2.2	**1,00E+00**	**1,00E+00**	**1,00E+00**	**0,00E+00**	**1,00E+00**	**1,00E+00**
2CDG110286R0011 JRA/S8.230.2.2	1,64E+00	1,64E+00	1,13E+00	0,00E+00	1,86E+00	1,86E+00
2CDG110287R0011 JRA/S12.230.2.2	2,25E+00	2,25E+00	1,28E+00	0,00E+00	2,67E+00	2,67E+00
2CDG110295R0011 JRA/S2.24.2.2	8,28E-01	8,28E-01	1,00E+00	0,00E+00	7,54E-01	7,54E-01
2CDG110296R0011 JRA/S4.24.2.2	1,01E+00	1,01E+00	1,00E+00	0,00E+00	1,01E+00	1,01E+00
2CDG110297R0011 JRA/S8.24.2.2	1,65E+00	1,65E+00	1,13E+00	0,00E+00	1,88E+00	1,88E+00
2CDG510021R0011 BA-M-4.230.1.2	9,90E-01	9,90E-01	1,00E+00	0,00E+00	9,85E-01	9,85E-01
2CDG510021R0021 BA-M-4.230.1.12	9,90E-01	9,90E-01	1,00E+00	0,00E+00	9,85E-01	9,85E-01
2CDG510022R0011 BA-M-8.230.1.2	1,63E+00	1,63E+00	1,13E+00	0,00E+00	1,85E+00	1,85E+00
2CDG510022R0021 BA-M-8.230.1.12	1,63E+00	1,63E+00	1,13E+00	0,00E+00	1,85E+00	1,85E+00

Extrapolation Factors

Manufacturing stage

Impact category	2CDG110 285R0011 (reference product)	2CDG1102 84R0011	2CDG110 286R0011	2CDG1102 87R0011	2CDG1102 95R0011	2CDG1102 96R0011	2CDG1102 97R0011	2CDG5100 21R0011	2CDG5100 21R0021	2CDG5100 22R0011	2CDG5100 22R0021
GWP-total	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
GWP- fossil	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
GWP-biogenic	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
GWP-luluc	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
ODP	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
AP	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
EP-freshwater	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
EP-marine	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
EP-terrestrial	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
POCP	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
ADP-minerals	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
ADP-fossil	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
WDP	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PERE	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PERM	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PERT	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PENRE	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PENRM	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PENRT	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
SM	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
RSF	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
NRSF	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
FW	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
HWD	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
NHWD	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
RWD	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
CRU	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
MFR	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
MER	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
EE	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
Biogenic C, product	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
Biogenic C, packaging	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00

Extrapolation Factors

Distribution stage

Impact category	2CDG110 285R0011 (reference product)	2CDG1102 84R0011	2CDG110 286R0011	2CDG1102 87R0011	2CDG1102 95R0011	2CDG1102 96R0011	2CDG1102 97R0011	2CDG5100 21R0011	2CDG5100 21R0021	2CDG5100 22R0011	2CDG5100 22R0021
GWP-total	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
GWP- fossil	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
GWP-biogenic	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
GWP-luluc	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
ODP	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
AP	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
EP-freshwater	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
EP-marine	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
EP-terrestrial	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
POCP	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
ADP-minerals	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
ADP-fossil	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
WDP	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PERE	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PERM	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PERT	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PENRE	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PENRM	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
PENRT	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
SM	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
RSF	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
NRSF	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
FW	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
HWD	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
NHWD	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
RWD	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
CRU	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
MFR	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
MER	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
EE	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
Biogenic C, product	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00
Biogenic C, packaging	1,00E+00	8,52E-01	1,64E+00	2,25E+00	8,28E-01	1,01E+00	1,65E+00	9,90E-01	9,90E-01	1,63E+00	1,63E+00

Extrapolation Factors

Instalation stage

Impact category	2CDG110285R0011 (reference product)	2CDG110284R0011	2CDG110286R0011	2CDG110287R0011	2CDG110295R0011	2CDG110296R0011	2CDG110297R0011	2CDG510021R0011	2CDG510021R0021	2CDG510022R0011	2CDG510022R0021
GWP-total	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
GWP- fossil	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
GWP-biogenic	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
GWP-luluc	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
ODP	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
AP	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
EP-freshwater	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
EP-marine	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
EP-terrestrial	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
POCP	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
ADP-minerals	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
ADP-fossil	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
WDP	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
PERE	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
PERM	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
PERT	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
PENRE	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
PENRM	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
PENRT	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
SM	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
RSF	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
NRSF	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
FW	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
HWD	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
NHWD	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
RWD	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
CRU	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
MFR	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
MER	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
EE	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
Biogenic C, product	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00
Biogenic C, packaging	1,00E+00	1,00E+00	1,13E+00	1,28E+00	1,00E+00	1,00E+00	1,13E+00	1,00E+00	1,00E+00	1,13E+00	1,13E+00

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Extrapolation Factors

Use stage

Impact category	2CDG110285R0011 (reference product)	2CDG110284R0011	2CDG110286R0011	2CDG110287R0011	2CDG110295R0011	2CDG110296R0011	2CDG110297R0011	2CDG510021R0011	2CDG510021R0021	2CDG510022R0011	2CDG510022R0021
GWP-total	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP- fossil	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP-biogenic	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP-luluc	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ODP	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
AP	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EP-freshwater	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EP-marine	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EP-terrestrial	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
POCP	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADP-minerals	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADP-fossil	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
WDP	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERE	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERM	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRE	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRM	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
SM	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
HWD	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NHWD	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RWD	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
CRU	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EE	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Biogenic C, product	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Biogenic C, packaging	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Extrapolation Factors

EoL stage

Impact category	2CDG110 285R0011 (reference product)	2CDG1102 84R0011	2CDG110 286R0011	2CDG1102 87R0011	2CDG1102 95R0011	2CDG1102 96R0011	2CDG1102 97R0011	2CDG5100 21R0011	2CDG5100 21R0021	2CDG5100 22R0011	2CDG5100 22R0021
GWP-total	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
GWP- fossil	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
GWP-biogenic	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
GWP-luluc	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
ODP	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
AP	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
EP-freshwater	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
EP-marine	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
EP-terrestrial	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
POCP	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
ADP-minerals	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
ADP-fossil	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
WDP	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PERE	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PERM	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PERT	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PENRE	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PENRM	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PENRT	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
SM	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
RSF	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
NRSF	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
FW	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
HWD	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
NHWD	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
RWD	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
CRU	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
MFR	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
MER	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
EE	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
Biogenic C, product	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
Biogenic C, packaging	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00

Extrapolation Factors

Benefits stage

Impact category	2CDG110 285R0011 (reference product)	2CDG1102 84R0011	2CDG110 286R0011	2CDG1102 87R0011	2CDG1102 95R0011	2CDG1102 96R0011	2CDG1102 97R0011	2CDG5100 21R0011	2CDG5100 21R0021	2CDG5100 22R0011	2CDG5100 22R0021
GWP-total	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
GWP- fossil	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
GWP-biogenic	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
GWP-luluc	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
ODP	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
AP	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
EP-freshwater	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
EP-marine	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
EP-terrestrial	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
POCP	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
ADP-minerals	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
ADP-fossil	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
WDP	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PERE	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PERM	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PERT	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PENRE	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PENRM	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
PENRT	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
SM	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
RSF	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
NRSF	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
FW	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
HWD	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
NHWD	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
RWD	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
CRU	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
MFR	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
MER	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
EE	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
Biogenic C, product	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00
Biogenic C, packaging	1,00E+00	7,88E-01	1,86E+00	2,67E+00	7,54E-01	1,01E+00	1,88E+00	9,85E-01	9,85E-01	1,85E+00	1,85E+00

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 reachin marine end compartment
EP-terrestrial	Eutrophication potential - Accumulated Exceedance
POPCD	Formation potential of tropospheric ozone
ADP-m&m	Abiotic Depletion for non-fossil resources potential
ADP-fossil	Abiotic Depletion for fossil resources potential, WDP
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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References

[1] PCR “PEP-PCR-ed4-EN-2022_09_06” - Product Category Rules for Electrical, Electronic and HVAC-R Products (published: 6th September 2022)

[2] PSR “PSR-0005-ed2-EN-2016 03 29” - SPECIFIC RULES FOR Electrical switchgear and control gear Solutions (Circuit breakers)

[3] EN 50693:2019 - Product category rules for life cycle assessments of electronic and electrical products and systems

[4] ISO 14040:2006 - Environmental management -Life cycle assessment - Principles and framework

[5] ISO 14044:2006 - Environmental management - Life cycle assessment - Requirements and guidelines

[6] ecoinvent v3.8 (2022). ecoinvent database version 3.8 - (https://ecoinvent.org/)

[7] SimaPro Software version 9.3.0.3 - PRé Sustainability

[8] UNI EN 15804:2012+A2:2019: Sustainability of constructions - Environmental product declarations (September 2019)

[9] IEC/TR 62635 - Guidelines for end-of-life information provided by manufacturers and recyclers and for recyclability rate calculation of electrical and electronic equipment - Edition 1.0 2012-10

[10] https://www.ecosystemspa.com/

[11] LB-DT 17-21D - RoHS II (MCCBs and ACBs)

[12] LB-DT 18-21D - REACH (MCCBs and ACBs)

[13] 1SDL000571R0 Ver 01 - RoHS Exemptions (MCCBs and ACBs)

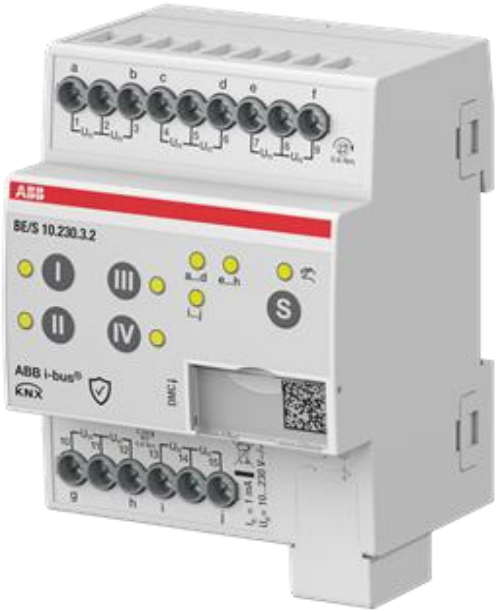
[14] 1SDL000572R0 Ver 01 - SVHC present in excess of 0.1% (MCCBs and ACBs)

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BE/Sx.20.3.2

PEP ecopassport®

Product Environmental Profile



Registration number:	**ABBG-00858-V01.01-EN**	Drafting rules:	**PCR-ed4-EN-2021 09 06**
Contact information:	**Pia Denninghoff (pia.denninghoff@de.abb.com) & L**	Supplemented by:	**PSR-0005-ed3-EN-2023 06 06**
Verifier accreditation number:	**VH08**	Information and reference documents:	**www.pep-ecopassport.org**
Date of issue:	**July-25**	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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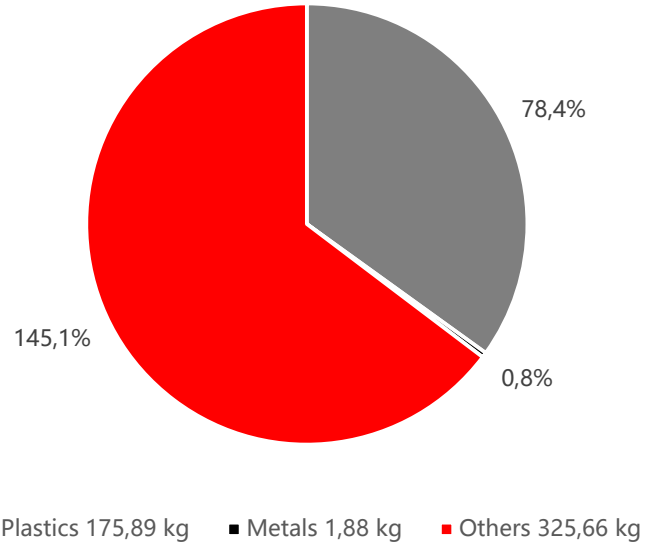
ABB Purpose & Embedding Sustainability

ABB is committed to 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.
The contect of this PEP cannot be compared with the content based on another program/database.
Scan QR code for more information

General information

Reference product	2CDG110277R0011 BE/S10.230.3.2
Description of the product	Scans floating contacts with internally generated scanning voltage. The state of the input is displayed via yellow LEDs. The binary inputs enable detection of independent input signals. The devices feature a manual operation pushbutton for each channel. The devices are powered via the ABB i-bus® and do not require an additional power supply. The devices support KNX Data Secure
Functional unit	The devise operates with a rated current 1 mA and rated voltage 35 V, with IP20 degree of protection for a wall-mounted installation according to the appropriate use scenario, and for the reference service life of the product of 10 years.
Other products covered	Products included in the section ‘Extrapolation Factors’
Manufacturing address	Hauptstrasse 14-16, 78132 Hornberg, Baden-Wurttemberg

Constituent Materials



Total weight of reference product and packaging	**224,4**	**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%
PC	78,4	**Stainless steel**	0,8	**Electronic components**	71,3
				Cardboard	48,8
				Paper	24,8
				Adhesive	0,1

Additional Information

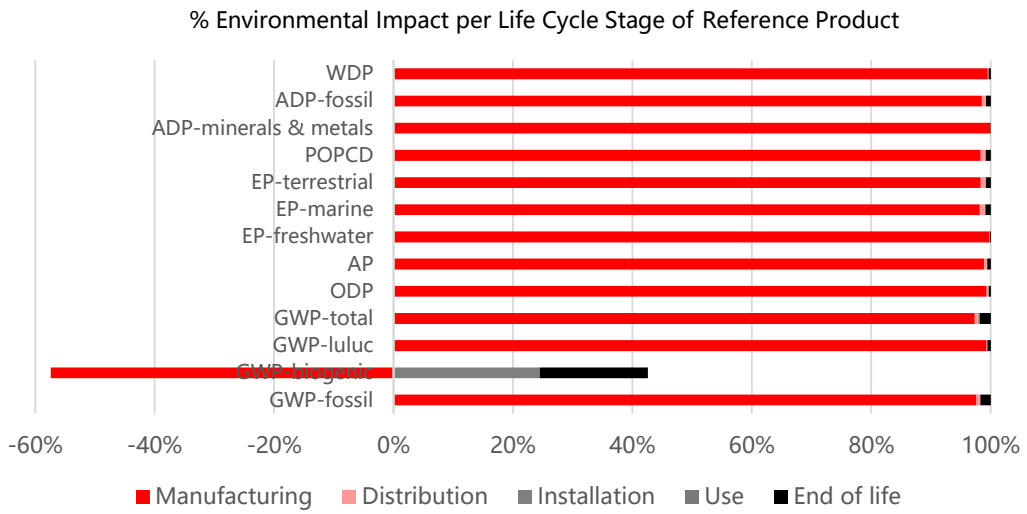
Manufacturing	Includes the environmental impacts associated with extraction and processing of the raw materials used to produce the product and its pacakging, transport to the manufacturing site and assembly.
Distribution	Includes the transportation in its pacakging from the manufacturer's last logistic 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. No maintenance is necessary.
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 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	20 years
Product category	Other Equipment (3.15)
Installation elements	Installation elements
Use scenario	Global
Geographical representativeness	Global
Technological representativeness	Technological representativeness
Software and database used	SimaPro 9.6.0.1 & Ecoinvent 3.10
Energy model used	
Manufacturing	A specific mix of ABB's trading company has been used (Confidentia
Installation	Non-applicable
Use	Non-applicable
End of life	Recycling of product and packaging

Common base of mandatory indicators



Environmental impact indicators

Indicator		Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
GWP	Total	kg CO2 eq.	7,33E+00	7,13E+00	4,39E-02	1,59E-02	0,00E+00	1,34E-01	-4,02E-01
	Fossil	kg CO2 eq.	7,32E+00	7,15E+00	4,38E-02	4,03E-03	0,00E+00	1,26E-01	-4,00E-01
	Biogenic	kg CO2 eq.	-7,22E-03	-2,79E-02	2,64E-05	1,19E-02	0,00E+00	8,80E-03	-1,53E-03
	Luluc	kg CO2 eq.	9,78E-03	9,72E-03	1,51E-05	1,29E-06	0,00E+00	4,94E-05	-2,68E-04
ODP		kg CFC-11 eq.	2,67E-07	2,66E-07	8,51E-10	8,33E-11	0,00E+00	8,60E-10	-1,09E-08
AP		H+ eq.	4,64E-02	4,59E-02	2,34E-04	2,01E-05	0,00E+00	2,68E-04	-1,58E-03
EP	Freshwater	kg P eq.	8,95E-04	8,94E-04	3,23E-07	5,11E-08	0,00E+00	1,12E-06	-1,35E-05
	Marine	kg N eq.	8,19E-03	8,04E-03	6,87E-05	7,86E-06	0,00E+00	7,14E-05	-2,71E-04
	Terrestrial	mol N eq.	9,33E-02	9,17E-02	7,59E-04	8,42E-05	0,00E+00	7,08E-04	-2,97E-03
POPCD		kg NMVOC eq.	3,48E-02	3,43E-02	2,78E-04	3,04E-05	0,00E+00	2,81E-04	-1,63E-03
ADP	Minerals & metals	kg SB eq.	1,53E-03	1,53E-03	1,32E-07	1,64E-08	0,00E+00	3,40E-07	-4,73E-06
	Fossil	MJ	9,80E+01	9,66E+01	6,09E-01	4,24E-02	0,00E+00	7,70E-01	-8,12E+00
WDP		m³ eq. depr.	1,75E+00	1,75E+00	2,42E-03	2,69E-04	0,00E+00	5,78E-03	-8,18E-02

Resource use indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
PERE	MJ	9,11E+00	9,06E+00	9,56E-03	1,76E-03	0,00E+00	4,30E-02	-3,83E-01
PERM	MJ	9,78E-01	9,78E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	1,01E+01	1,00E+01	9,56E-03	1,76E-03	0,00E+00	4,30E-02	-3,83E-01
PENRE	MJ	9,57E+01	9,43E+01	6,09E-01	4,24E-02	0,00E+00	7,70E-01	-8,12E+00
PENRM	MJ	2,32E+00	2,32E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	9,80E+01	9,66E+01	6,09E-01	4,24E-02	0,00E+00	7,70E-01	-8,12E+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	0,00E+00	0,00E+00	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	m³	6,41E-02	6,38E-02	8,05E-05	1,43E-05	0,00E+00	1,78E-04	-2,65E-03

Waste category indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
HWD	kg	7,71E-04	7,62E-04	4,03E-06	2,73E-07	0,00E+00	5,22E-06	-1,16E-04
N-HWD	kg	3,45E-01	2,79E-01	2,69E-02	7,60E-03	0,00E+00	3,20E-02	-2,48E-02
RWD	kg	1,94E-04	1,93E-04	1,85E-07	4,04E-08	0,00E+00	5,61E-07	-8,57E-06

Output flow indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
CfRu	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MfR	kg	3,08E-01	2,15E-01	0,00E+00	4,05E-02	0,00E+00	5,23E-02	0,00E+00
MfER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EE	MJ	0,00E+00	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	3,22E-02

Extrapolation Factors

For products other than the Reference product covered by this PEP, the environmental impacts for each phase of the life cycle are obtained by multiplying the values of the Reference product by the extrapolation factors provided in the tables below, with the following formulas:

$$y = a * x0$$

Where:
y is the selected impact category
a is the extrapolation factor from the tables below
x0 is the environmental indicator of the reference product

All stages

Order code	Manufacturing stage	Distribution stage	Installation stage	Use stage	End-of-life stage	Benefits stage
2CDG110276R0011 BE/S4.20.3.2	6,52E-01	6,52E-01	8,41E-01	0,00E+00	5,38E-01	5,38E-01
2CDG110277R0011 BE/S10.20.3.2	**1,00E+00**	**1,00E+00**	**1,00E+00**	**0,00E+00**	**1,00E+00**	**1,00E+00**
2CDG110278R0011 BE/S16.20.3.2	1,27E+00	1,27E+00	1,06E+00	0,00E+00	1,41E+00	1,41E+00
2CDG510014R0011 BI-M-4.20.1.1	6,39E-01	6,39E-01	8,41E-01	0,00E+00	5,17E-01	5,17E-01
2CDG510014R0021 BI-M-4.20.1.11	6,39E-01	6,39E-01	8,41E-01	0,00E+00	5,17E-01	5,17E-01
2CDG510015R0011 BI-M-10.20.1.1	9,87E-01	9,87E-01	1,00E+00	0,00E+00	9,79E-01	9,79E-01
2CDG510015R0021 BI-M-10.20.1.11	9,87E-01	9,87E-01	1,00E+00	0,00E+00	9,79E-01	9,79E-01

Extrapolation Factors

Manufacturing stage

Impact category	2CDG110277R0011 (reference product)	2CDG110276R0011	2CDG110278R0011	2CDG510014R0011	2CDG510014R0021	2CDG510015R0011	2CDG510015R0021
GWP-total	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
GWP- fossil	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
GWP-biogenic	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
GWP-luluc	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
ODP	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
AP	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
EP-freshwater	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
EP-marine	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
EP-terrestrial	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
POCP	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
ADP-minerals	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
ADP-fossil	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
WDP	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PERE	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PERM	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PERT	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PENRE	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PENRM	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PENRT	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
SM	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
RSF	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
NRSF	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
FW	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
HWD	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
NHWD	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
RWD	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
CRU	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
MFR	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
MER	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
EE	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
Biogenic C, product	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
Biogenic C, packaging	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01

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Extrapolation Factors

Distribution stage

Impact category	2CDG110277R0011 (reference product)	2CDG110276R0011	2CDG110278R0011	2CDG510014R0011	2CDG510014R0021	2CDG510015R0011	2CDG510015R0021
GWP-total	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
GWP- fossil	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
GWP-biogenic	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
GWP-luluc	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
ODP	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
AP	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
EP-freshwater	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
EP-marine	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
EP-terrestrial	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
POCP	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
ADP-minerals	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
ADP-fossil	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
WDP	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PERE	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PERM	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PERT	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PENRE	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PENRM	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
PENRT	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
SM	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
RSF	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
NRSF	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
FW	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
HWD	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
NHWD	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
RWD	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
CRU	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
MFR	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
MER	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
EE	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
Biogenic C, product	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01
Biogenic C, packaging	1,00E+00	6,52E-01	1,27E+00	6,39E-01	6,39E-01	9,87E-01	9,87E-01

Extrapolation Factors

Instalation stage

Impact category	2CDG110277R0011 (reference product)	2CDG110276R0011	2CDG110278R0011	2CDG510014R0011	2CDG510014R0021	2CDG510015R0011	2CDG510015R0021
GWP-total	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
GWP- fossil	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
GWP-biogenic	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
GWP-luluc	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
ODP	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
AP	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
EP-freshwater	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
EP-marine	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
EP-terrestrial	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
POCP	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
ADP-minerals	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
ADP-fossil	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
WDP	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
PERE	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
PERM	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
PERT	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
PENRE	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
PENRM	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
PENRT	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
SM	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
RSF	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
NRSF	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
FW	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
HWD	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
NHWD	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
RWD	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
CRU	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
MFR	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
MER	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
EE	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
Biogenic C, product	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00
Biogenic C, packaging	1,00E+00	8,41E-01	1,06E+00	8,41E-01	8,41E-01	1,00E+00	1,00E+00

Extrapolation Factors

Use stage

Impact category	2CDG110277R0011 (reference product)	2CDG110276R0011	2CDG110278R0011	2CDG510014R0011	2CDG510014R0021	2CDG510015R0011	2CDG510015R0021
GWP-total	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP- fossil	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP-biogenic	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP-luluc	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ODP	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
AP	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EP-freshwater	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EP-marine	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EP-terrestrial	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
POCP	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADP-minerals	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADP-fossil	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
WDP	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERE	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERM	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRE	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRM	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
SM	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
HWD	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NHWD	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RWD	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
CRU	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EE	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Biogenic C, product	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Biogenic C, packaging	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

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Extrapolation Factors

EoL stage

Impact category	2CDG110277R0011 (reference product)	2CDG110276R0011	2CDG110278R0011	2CDG510014R0011	2CDG510014R0021	2CDG510015R0011	2CDG510015R0021
GWP-total	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
GWP- fossil	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
GWP-biogenic	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
GWP-luluc	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
ODP	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
AP	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
EP-freshwater	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
EP-marine	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
EP-terrestrial	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
POCP	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
ADP-minerals	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
ADP-fossil	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
WDP	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PERE	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PERM	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PERT	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PENRE	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PENRM	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PENRT	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
SM	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
RSF	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
NRSF	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
FW	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
HWD	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
NHWD	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
RWD	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
CRU	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
MFR	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
MER	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
EE	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
Biogenic C, product	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
Biogenic C, packaging	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01

Extrapolation Factors

Benefits stage

Impact category	2CDG110277R0011 (reference product)	2CDG110276R0011	2CDG110278R0011	2CDG510014R0011	2CDG510014R0021	2CDG510015R0011	2CDG510015R0021
GWP-total	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
GWP- fossil	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
GWP-biogenic	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
GWP-luluc	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
ODP	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
AP	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
EP-freshwater	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
EP-marine	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
EP-terrestrial	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
POCP	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
ADP-minerals	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
ADP-fossil	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
WDP	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PERE	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PERM	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PERT	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PENRE	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PENRM	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
PENRT	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
SM	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
RSF	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
NRSF	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
FW	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
HWD	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
NHWD	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
RWD	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
CRU	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
MFR	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
MER	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
EE	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
Biogenic C, product	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01
Biogenic C, packaging	1,00E+00	5,38E-01	1,41E+00	5,17E-01	5,17E-01	9,79E-01	9,79E-01

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 reachin marine end compartment
EP-terrestrial	Eutrophication potential - Accumulated Exceedance
POPCD	Formation potential of tropospheric ozone
ADP-m&m	Abiotic Depletion for non-fossil resources potential
ADP-fossil	Abiotic Depletion for fossil resources potential, WDP
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

References

[1] PCR “PEP-PCR-ed4-EN-2022_09_06” - Product Category Rules for Electrical, Electronic and HVAC-R Products (published: 6th September 2022)

[2] PSR “PSR-0005-ed2-EN-2016 03 29” - SPECIFIC RULES FOR Electrical switchgear and control gear Solutions (Circuit breakers)

[3] EN 50693:2019 - Product category rules for life cycle assessments of electronic and electrical products and systems

[4] ISO 14040:2006 - Environmental management -Life cycle assessment - Principles and framework

[5] ISO 14044:2006 - Environmental management - Life cycle assessment - Requirements and guidelines

[6] ecoinvent v3.8 (2022). ecoinvent database version 3.8 - (https://ecoinvent.org/)

[7] SimaPro Software version 9.3.0.3 - PRé Sustainability

[8] UNI EN 15804:2012+A2:2019: Sustainability of constructions - Environmental product declarations (September 2019)

[9] IEC/TR 62635 - Guidelines for end-of-life information provided by manufacturers and recyclers and for recyclability rate calculation of electrical and electronic equipment - Edition 1.0 2012-10

[10] https://www.ecosystemspa.com/

[11] LB-DT 17-21D - RoHS II (MCCBs and ACBs)

[12] LB-DT 18-21D - REACH (MCCBs and ACBs)

[13] 1SDL000571R0 Ver 01 - RoHS Exemptions (MCCBs and ACBs)

[14] 1SDL000572R0 Ver 01 - SVHC present in excess of 0.1% (MCCBs and ACBs)

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Erklärung zur REACH - Verordnung

Sehr geehrte Damen und Herren,

die REACH – Verordnung EG Nr.1907/2006 fordert die Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe (**R**egistration, **E**valuation, **A**uthorization of **Ch**emicals).

Diese Verordnung beruht auf dem Grundsatz, dass Hersteller, Importeure und nachgeschaltete Anwender sicherstellen müssen, dass sie Stoffe herstellen, in Verkehr bringen und verwenden, die menschliche Gesundheit oder die Umwelt nicht nachteilig beeinflussen. Zweck der Verordnung ist unter anderem, ein hohes Schutzniveau für die menschliche Gesundheit und für die Umwelt sicherzustellen, einschließlich der Förderung aller alternativen Beurteilungsmethoden für von Stoffen ausgehende Gefahren, sowie den freien Verkehr von Stoffen im Binnenmarkt zu gewährleisten. Die REACH – Verordnung liegt uns stets in der aktuell gültigen Fassung mit den entsprechenden Anhängen vor und jede Änderung wird auf ihre Relevanz geprüft. Die obige Verordnung liegt derzeit in der Berichtigung vom 05.02.2009 (ABl. L36/84) vor.

Die Busch-Jaeger Elektro GmbH liefert elektrotechnische Produkte, die keine Stoffe oder Zubereitungen im Sinne der Verordnung darstellen. Demnach ist die Erstellung von Sicherheitsdatenblättern für unsere Produkte nach dieser Verordnung nicht erforderlich. Als „nachgeschalteter Anwender“ im Sinne des Art.3 Abs.12 der Verordnung achten wir darauf, dass die bei uns eingesetzten Stoffe und Zubereitungen – soweit vom Anwendungsbereich umfasst – gemäß REACH-Verordnung registriert sind. Auch unsere Lieferanten sind nach vorgenannter Verordnung verpflichtet, uns hinsichtlich etwaiger Inhaltsstoffe, welche als meldepflichtig in der jeweiligen aktuellen Liste der möglicherweise gefährlichen Substanzen (SVHC – **S**ubstances of **V**ery **H**igh **C**oncern) aufgeführt sind, zu informieren. Sofern wir eine diesbezügliche Information von unseren Lieferanten erhalten und dadurch Kenntnis erlangen, dass damit auch in unseren Produkten die 0,1 Massenprozentschwelle für einen SVHC-Stoff überschritten wird, werden wir diese Erklärung aktualisieren. Zur Steigerung Ihres Schutzes als Kunde fordert die Busch-Jaeger Elektro GmbH proaktiv und aus eigenem Antrieb alle ihre Lieferanten in regelmäßigen Abständen auf, über den etwaigen Einsatz solcher Inhaltsstoffe Auskunft zu geben.

Diese Erklärung basiert auf der aktuellen Liste der für eine Zulassung in Frage kommenden besonders besorgniserregenden Stoffe (SVHC – **S**ubstances of **V**ery **H**igh **C**oncern), veröffentlicht gemäß Artikel 59 Absatz 10 der REACH-Verordnung auf der ECHA Website.

Informationen bezüglich der uns von unseren Lieferanten gemeldeten SVHC-Stoffe können dem Anhang dieses Schreibens entnommen werden. Zusätzlich können Sie aktuelle Informationen zum Themenfeld Material Compliance in der Lieferkette jederzeit auf dieser Seite erhalten: https://new.abb.com/about/supplying/material-compliance.

Der Einsatz dieser Stoffe in unseren Produkten entspricht den geltenden Bestimmungen. Bei bestimmungsgemäßem Gebrauch besteht keine Gefahr für Gesundheit oder Umwelt. Sicherheitshinweise sind daher nicht erforderlich.

Busch-Jaeger Elektro GmbH,
Lüdenscheid, 08.04.2024

i.V. Manfred Lange

Head of Product Compliance & Sustainability

Leiter Produkt Konformität und Nachhaltigkeit

i.V. Stephan Roentgen

Local Sustainability Officer

Lokaler Nachhaltigkeitsbeauftragter

SVHC: 1,2-dimethoxyethane; ethylene glycol dimethyl ether, CAS: 110-71-4

2CKA006200A0067	Windowcontact Handle
2CKA006200A0068	Windowcontact Magnet
2CKA006200A0070	Windowcontact Magnet
2CKA006200A0101	Windowcontact Handle
2CKA006200A0102	Windowcontact Magnet
2CKA006200A0104	WL-UNIVERSALMELDER
2CKA006200A0141	WL-FENSTERMELDER
2CKA006200A0069	WL-Fenstermelder
2CKA006200A0103	WL-Fenstermelder
2CKA006200A0142	WL-Fenstermelder
2CKA006700A0031	Busch-Watchdog 220° Wave
2CKA006700A0032	Busch-Watchdog 220° Wave
2CKA006700A0033	Busch-Watchdog 220° Wave
2CKA006700A0034	Busch-Watchdog 220° Wave
2CKA006700A0035	Busch-Watchdog 220° Wave
2CKA006700A0036	Busch-Watchdog 220° Wave
2CKA006700A0037	Busch-Watchdog 220° Wave
2CKA006700A0038	Busch-Watchdog 220° Wave

SVHC: Cobalt (II) diacetate, CAS: 71-48-7

2CKA006710A0025	BT relay pill
2CKA006710A0027	BT relay pill, x10

SVHC: Decamethylcyclopentasiloxane, CAS: 541-02-6

2CKA001710A3406	Intermediate Ring for Triton
2CKA001710A3409	Intermediate Ring for Triton
2CKA002018A0350	SCHUKO® STECKDOSEN-EINSATZ
2CKA002018A0351	SCHUKO® STECKDOSEN-EINSATZ
2CKA002018A0695	SCHUKO-STECKD. ALPHA BJ
2CKA002018A0992	Socket Outlet
2CKA002018A1040	Socket Outlet
2CKA002018A1446	Socket Outlet
2CKA002018A1465	Socket Outlet
2CKA002018A1466	Socket Outlet
2CKA002018A1467	Socket Outlet
2CKA002018A1486	Socket Outlet
2CKA002018A1488	Socket Outlet
2CKA002018A1499	SCHUKO® STECKDOSEN-EINSATZ
2CKA002018A1500	SCHUKO® STECKDOSEN-EINSATZ
2CKA002018A1509	Socket Outlet
2CKA002018A1517	SCHUKO®-STD EBS KL
2CKA002018A1518	SCHUKO®-STD EBS KL
2CKA002018A1520	SCHUKO®-STD EBS KL
2CKA002018A1526	SCHUKO®-STD EBS KD OS
2CKA002018A1527	SCHUKO®-STD EBS KD OS
2CKA002018A1529	SCHUKO®-STD EBS KD OS
2CKA002064A0286	SO AW 44, lid
2CKA002064A0287	SO AW 44, lid
2CKA002064A0288	SO AW 44, lid
2CKA002064A0289	SO AW 44, lid
2CKA002064A0290	SO AW 44, lid
2CKA002064A0291	SO AW 44, shutter, lid
2CKA002064A0292	SO AW 44, shutter, lid
2CKA002064A0293	SO AW 44, shutter, lid
2CKA002064A0294	SO AW 44, shutter, lid
2CKA002064A0295	SO AW 44, shutter, lid
2CKA002064A0297	SO AW 44, ZSV,shutter, lid
2CKA002064A0298	SO AW 44, shutter, LF,lid
2CKA002064A0299	SO AW 44, shutter, LF,lid
2CKA002064A0300	SO AW 44, shutter, LF,lid
2CKA002064A0301	SO AW 44, shutter, LF,lid
2CKA002064A0302	SO AW 44, shutter, LF,lid
2CKA002064A0306	SO AW 44, lid, w/ cl
2CKA002064A0307	SO AW 44, lid, w/ cl
2CKA002064A0309	STECKD. AW44 DECKEL
2CKA002064A0310	SO AW 44, lid
2CKA002064A0311	SO AW 44, SV, shutter, lid

SVHC: Diboron trioxide, CAS: 1303-86-2

2CKA006220A0007	Busch-free@home Panel 4.3"
2CKA006220A0008	Busch-free@home Panel 4.3"
2CKA006220A0119	ABB-FREE@HOMETOUCH 4.3"
2CKA006220A0120	ABB-FREE@HOMETOUCH 4.3"

SVHC: Dodecamethylcyclohexasiloxane, CAS: 540-97-6

2CKA001710A3406	Intermediate Ring for Triton

2CKA001710A3409	Intermediate Ring for Triton
2CKA002018A0350	SCHUKO® STECKDOSEN-EINSATZ
2CKA002018A0351	SCHUKO® STECKDOSEN-EINSATZ
2CKA002018A0695	SCHUKO-STECKD. ALPHA BJ
2CKA002018A0992	Socket Outlet
2CKA002018A1040	Socket Outlet
2CKA002018A1446	Socket Outlet
2CKA002018A1465	Socket Outlet
2CKA002018A1466	Socket Outlet
2CKA002018A1467	Socket Outlet
2CKA002018A1486	Socket Outlet
2CKA002018A1488	Socket Outlet
2CKA002018A1499	SCHUKO® STECKDOSEN-EINSATZ
2CKA002018A1500	SCHUKO® STECKDOSEN-EINSATZ
2CKA002018A1509	Socket Outlet
2CKA002018A1517	SCHUKO®-STD EBS KL
2CKA002018A1518	SCHUKO®-STD EBS KL
2CKA002018A1520	SCHUKO®-STD EBS KL
2CKA002018A1526	SCHUKO®-STD EBS KD OS
2CKA002018A1527	SCHUKO®-STD EBS KD OS
2CKA002018A1529	SCHUKO®-STD EBS KD OS
2CKA002064A0286	SO AW 44, lid
2CKA002064A0287	SO AW 44, lid
2CKA002064A0288	SO AW 44, lid
2CKA002064A0289	SO AW 44, lid
2CKA002064A0290	SO AW 44, lid
2CKA002064A0291	SO AW 44, shutter, lid
2CKA002064A0292	SO AW 44, shutter, lid
2CKA002064A0293	SO AW 44, shutter, lid
2CKA002064A0294	SO AW 44, shutter, lid
2CKA002064A0295	SO AW 44, shutter, lid
2CKA002064A0297	SO AW 44, ZSV,shutter, lid
2CKA002064A0298	SO AW 44, shutter, LF,lid
2CKA002064A0299	SO AW 44, shutter, LF,lid
2CKA002064A0300	SO AW 44, shutter, LF,lid
2CKA002064A0301	SO AW 44, shutter, LF,lid
2CKA002064A0302	SO AW 44, shutter, LF,lid
2CKA002064A0306	SO AW 44, lid, w/ cl
2CKA002064A0307	SO AW 44, lid, w/ cl
2CKA002064A0309	STECKD. AW44 DECKEL
2CKA002064A0310	SO AW 44, lid
2CKA002064A0311	SO AW 44, SV, shutter, lid

SVHC: Ethylenediamine [EDA], CAS: 107-15-3

2CKA001710A3748	Cover Plate, turning handle
2CKA001710A3757	Cover Plate Card Switch
2CKA001710A3758	Cover Plate
2CKA001710A3759	Cover Plate
2CKA001710A3771	Central disk/turning grasp
2CKA001710A3812	Cover Plate, turning handle
2CKA001751A2958	Rocker "Light"
2CKA001751A2959	Rocker "Bell"
2CKA001751A2960	Rocker "Door"
2CKA001751A2961	Rocker
2CKA001751A2963	Rocker"Heizung-Notschalter"
2CKA001751A2964	Rocker
2CKA001751A2996	Rocker
2CKA001751A3002	Rocker
2CKA001751A3162	rocker indicator plug
2CKA001751A3181	Rocker
2CKA001751A3191	Rocker
2CKA001751A3200	Rocker
2CKA001751A3216	Rocker DND/MUR
2CKA002013A5277	Socket Outlet
2CKA006599A2927	Dimmer Control Cover

SVHC: Lead, CAS: 7439-92-1

2CKA001012A1085	SERIENSCHALTER UP
2CKA001012A1135	SERIENSCHALTER UP M.GL
2CKA001012A1150	SERIENSCHALTER UP
2CKA001012A1309	JAL.-SCHALTER UP
2CKA001012A1606	WIPPSCH.-EINS.UP F.SERIEN
2CKA001012A2108	SERIENSCHALTER
2CKA001012A2140	JALOUSIESCHALTER 1-POLIG
2CKA001012A2141	SERIENSCHALTER
2CKA001012A2147	JALOUSIESCHALTER 1-POL.
2CKA001012A2148	SERIENSCHALTER
2CKA001012A2154	SERIENSCHALTER
2CKA001012A2157	SERIENSCHALTER
2CKA001012A2166	JALOUSIESCHALTER 1-POLIG
2CKA001012A2167	SERIENSCHALTER
2CKA001012A2176	JALOUSIESCHALTER 1-POL.
2CKA001012A2177	SERIENSCHALTER
2CKA001012A2187	SERIENSCHALTER
2CKA001012A2188	SERIENSCHALTER
2CKA001012A2197	JAL.-SCHALTER UP
2CKA001012A2237	SCHALTER UP SERIENKONTR.
2CKA001084A0797	Switch, SM
2CKA001084A0805	KREUZSCHALTER AP WDI
2CKA001084A0821	AUSSCHALTER AP 2POL. WDI

2CKA001084A0839	SERIENSCHALTER AP WDI
2CKA001084A0854	KONTR. WECHSELSCH. AP WDI
2CKA001085A1603	Switch, ocean
2CKA001085A1604	KREUZSCH. OC 10A 1P
2CKA001085A1605	AUSSCH. OC 10A 2P
2CKA001085A1606	SERIENSCH. OC 10A 1P
2CKA001085A1607	K-WECHSELSCH. OC 10A 1P
2CKA001085A1609	K-WECHSELSCH. OC H-NOTSCH.
2CKA001085A1610	AUSSCH. OC H-NOTSCH.
2CKA001085A1611	Switch, SM
2CKA001085A1612	Blind Switch, SM
2CKA001085A1613	Switch, SM
2CKA001085A1614	Rocker Sw. oc 10A 1P
2CKA001085A1615	KREUZSCH. OC 10A 1P
2CKA001085A1616	AUSSCH. OC 10A 2P
2CKA001085A1617	Rocker Sw. Series oc 10A 1P
2CKA001085A1618	K-WECHSELSCH. OC 10A 1P
2CKA001085A1619	K-WECHSELSCH. OC 10A 2P
2CKA001085A1620	Intermedaiate Switch, SM
2CKA001085A1621	SERIENSCHALTER
2CKA001085A1622	Switch, SM
2CKA001085A1623	AUSSCHALTER / KONTROLL
2CKA001085A1624	Switch, SM
2CKA001085A1625	JALOUSIESCHALTER
2CKA001085A1626	Switch, SM
2CKA001085A1627	AUSSCHALTER
2CKA001085A1628	Switch, SM
2CKA001085A1631	Switch, SM
2CKA001085A1632	WECHSELSCHALTER
2CKA001085A1633	Switch, SM
2CKA001085A1635	Switch, SM
2CKA001085A1637	Switch, ocean
2CKA001101A0916	Blind Switch Insert
2CKA001101A0917	Key Switch Insert
2CKA001101A0924	Blind Switch Insert
2CKA001101A0925	Key Switch Insert
2CKA001383A0141	Pull Switch, SM
2CKA001383A0142	Pull Switch oc 10A 1P
2CKA001383A0143	ZUGWECHSELSCHALTER
2CKA001413A0491	TASTER UP
2CKA001413A0509	TASTER UP
2CKA001413A0590	JALOUSIETASTER UP
2CKA001413A1082	JALOUSIETASTER 1-POLIG
2CKA001413A1085	JALOUSIETASTER 1-POL.
2CKA001413A1094	JALOUSIETASTER 1-POLIG
2CKA001413A1098	JALOUSIETASTER 1-POL.
2CKA001413A1103	JALOUSIETASTER UP
2CKA001413A1105	TASTER UP
2CKA001442A0469	Blind Switch , ocean
2CKA001442A0474	JALOUSIETASTER
2CKA001483A0171	Switch , SM
2CKA001484A0054	Push Switch, SM
2CKA001484A0370	Push Switch, ocean
2CKA001484A0371	Push Switch, ocean
2CKA001484A0373	Push Switch, ocean
2CKA001484A0374	D-TASTER, 2 SCHLIESSER OC
2CKA001484A0376	Retrac. Switch oc 10A 1P
2CKA001484A0377	Switch, SM
2CKA001484A0378	Switch, SM
2CKA001484A0379	DOPPELTASTER, 2 SCHLIEßER
2CKA001484A0380	Push Switch, SM
2CKA001484A0381	Push Switch, illuminated
2CKA001484A0382	Push Switch, ocean
2CKA001511A0115	LICHTSIGNAL EINSATZ
2CKA001582A0305	L-SIGNAL OC O. HAUBE
2CKA001582A0328	LICHTSIGNAL
2CKA001684A0316	Comb.Switch/Socket Outlet, oc
2CKA001684A0319	Comb. oc Switch/Socket Outl.
2CKA001684A0324	Comb.Switch/Socket Outlet, oc
2CKA001684A0327	Comb.Switch/Socket Outlet, oc
2CKA001684A0328	Comb.Switch/Socket Outlet, oc
2CKA001684A0329	KOMBINATION / WECHSELSCHALTER
2CKA001684A0330	Comb.Switch/Socket Outlet, oc
2CKA001684A0331	Comb.Switch/Socket Outlet, oc
2CKA001710A1829	C-SCH. AW44 PZ
2CKA001710A1837	C-SCH. AW44 SCHLUESSELSCH.
2CKA001710A1894	C-SCH. AW44 PZ
2CKA001710A1902	C-SCH. AW44 SCHLUESSELSCH.
2CKA001710A2249	Cover Plate
2CKA001710A3803	C-SCH. AW44 PZ
2CKA001710A3804	C-SCH. AW44 PZ
2CKA001710A3806	C-SCH. AW44 SCHLUESSELSCH.
2CKA001724A2751	Box Plug Connector
2CKA001724A2752	GEHAEUSE BEFEHLSG. OCEAN
2CKA001724A2753	GEHAEUSE BEFEHLSG. OCEAN
2CKA001724A4264	Cable Entry
2CKA001724A4281	GEHÄUSE
2CKA001724A4282	GEHÄUSE,GELB
2CKA002017A0762	Socket Outlet, SM

2CKA002017A0763	Socket Outlet, SM
2CKA002017A0842	Socket Outlet, SM
2CKA002017A0849	Socket Outlet, SM
2CKA002018A1222	Socket Outlet
2CKA002018A1289	Socket Outlet
2CKA002018A1474	Socket Outlet
2CKA002018A1479	Socket Outlet
2CKA002018A1513	SCHUKO® so lid diff.
2CKA002018A1514	SCHUKO® so lid even
2CKA002018A1555	SCHUKO®-STD EBS KD BES SLV
2CKA002018A1556	SCHUKO®-STD EBS KD BES SLG
2CKA002018A1558	SCHUKO® so lid diff.
2CKA002018A1563	SCHUKO®-STD EBS KD BES SLV
2CKA002018A1564	SCHUKO®-STD EBS KD BES SLG
2CKA002083A0343	SCHUKO-STECKDOSE AP WDI
2CKA002083A0368	SCHUKO-STECKDOSE AP
2CKA002083A0816	2 STECKD. OC GLEICHE SCHL.
2CKA002083A0817	Socket Outlet, ocean
2CKA002083A0818	Socket Outlet, SM
2CKA002083A0819	Socket Outlet, market SV,SM
2CKA002083A0820	Socket Outlet, marked ZSV
2CKA002083A0822	Socket Outlet, SM
2CKA002083A0823	Socket Outlet, SM
2CKA002083A0825	Socket Outlet, marked EDV
2CKA002083A0827	Socket Outl. oc 10/16A, 250V
2CKA002083A0831	SCHUKO® STECKDOSE
2CKA002083A0832	SCHUKO® STECKDOSE
2CKA002083A0833	SCHUKO® STECKDOSE
2CKA002083A0834	SCHUKO® STECKDOSE
2CKA002083A0836	2 SCHUKO® STECKDOSEN
2CKA002083A0837	SCHUKO® STECKDOSE
2CKA002083A0838	SCHUKO® STECKDOSE
2CKA002083A0839	SCHUKO® STECKDOSE
2CKA002083A0840	SCHUKO® plug socket
2CKA002083A0842	SCHUKO® STECKDOSE
2CKA002083A0843	SCHUKO® STECKDOSE
2CKA002083A0845	Socket Outlet, ocean
2CKA002083A0846	SCHUKO® STECKDOSE
2CKA002083A0848	Socket Outlet, SM
2CKA002084A0698	DREIFACHSTECKDOSE OCEAN
2CKA002084A0699	D-STECKD. OC
2CKA002084A0700	D-STECKD. OC EDV
2CKA002084A0701	Socket Outlet, ocean
2CKA002084A0702	Double Socket Outlet, SM
2CKA002084A0703	D-STECKD. OC BEL.
2CKA002084A0704	DREIFACHSTECKD. OCEAN BEL.
2CKA002084A0705	D-STECKD. OC 10/16A, 2P
2CKA002084A0706	Socket Outl. oc 10/16A, 2g
2CKA002084A0710	Double Socket Outlet, SM
2CKA002084A0711	Double Socket Outlet, SM
2CKA002084A0712	SCHUKO® DREIFACHSTECKDOSE
2CKA002084A0713	Double Socket Outlet, SM
2CKA002084A0714	Double Socket Outlet, SM
2CKA002084A0715	Double Socket Outlet, SM
2CKA002084A0716	SCHUKO® DREIFACHSTECKDOSE
2CKA002084A0717	SCHUKO® DOPPELSTECKDOSE
2CKA002084A0718	SCHUKO® Double Socket Outlet
2CKA002084A0719	SCHUKO® ZWEIFACHSTECKD.
2CKA002084A0720	SCHUKO® DOPPELSTECKDOSE
2CKA002084A0721	SCHUKO® DREIFACHSTECKD.
2CKA002084A0722	SCHUKO® ZWEIFACHSTECKD.
2CKA002084A0723	SCHUKO® DOPPELSTECKDOSE
2CKA002084A0724	SCHUKO® DREIFACHSTECKDOSE
2CKA002084A0725	Socket Outlet, 3gang, SM
2CKA002084A0726	Socket Outlet, ocean
2CKA002084A0727	Double Socket Outlet, SM
2CKA002084A0729	ZWEIF.-STECKD. OC
2CKA002124A0023	Euro-American Socket Outlet
2CKA002124A0026	Socket Outlet, NEMA, ocean
2CKA005210A0032	TASTERANKOPPLUNG 1-F (CMC)
2CKA005210A0033	TASTERANKOPPLUNG 2-F (CMC)
2CKA005210A0040	KNX Präsenz Normal W
2CKA005210A0041	KNX PRÄSENZ MINI PRE W
2CKA006115A0443	BEDIENELEMENT 1/2FACH
2CKA006115A0444	BEDIENELEMENT 1/2FACH
2CKA006116A0218	BEDIENELEMENT 2/4FACH
2CKA006116A0219	BEDIENELEMENT 2/4FACH
2CKA006118A0104	BEDIENELEMENT 3/6FACH
2CKA006118A0105	BEDIENELEMENT 3/6FACH
2CKA006118A0107	BEDIENELEMENT 3/6FACH IR
2CKA006120A0071	POWER-BUSANKOPPLER, UP
2CKA006120A0072	POWER-BUSANKOPPLER, UP
2CKA006120A0073	Power bus coupler, FM
2CKA006131A0056	KNX PRÄSENZ NORMAL WS
2CKA006131A0057	KNX PRÄSENZ PREMIUM WS
2CKA006132A0306	BUSCH WÄCHTER 180° KNX
2CKA006132A0311	BUSCH-WÄCHTER® 220° KNX
2CKA006132A0312	BUSCH-WÄCHTER® 220° KNX
2CKA006132A0313	BUSCH-WÄCHTER® 220° KNX

2CKA006132A0314	BUSCH-WÄCHTER® 220° KNX
2CKA006132A0315	BUSCH-WÄCHTER® 220 KNX PRE
2CKA006132A0316	BUSCH-WÄCHTER® 220 KNX PRE
2CKA006132A0317	BUSCH-WÄCHTER® 220 KNX PRE
2CKA006132A0318	BUSCH-WÄCHTER® 220 KNX PRE
2CKA006132A0329	KNX PRÄSENZ MINI WS
2CKA006132A0330	KNX PRÄSENZ MINI SB
2CKA006132A0331	KNX PRÄSENZ MINI PRE WS
2CKA006132A0332	KNX PRÄSENZ MINI PRE SB
2CKA006132A0333	KNX PRÄSENZ NORMAL WS
2CKA006132A0334	KNX PRÄSENZ NORMAL SB
2CKA006132A0335	KNX PRÄSENZ PREMIUM WS
2CKA006132A0336	KNX PRÄSENZ PREMIUM SB
2CKA006132A0337	KNX BEWEGUNGSMELDER SKY WS
2CKA006132A0342	KNX PRÄSENZ MINI WS
2CKA006132A0343	KNX PRÄSENZ MINI SB
2CKA006132A0344	KNX PRÄSENZ MINI PRE WS
2CKA006132A0345	KNX PRÄSENZ MINI PRE SB
2CKA006132A0346	KNX PRÄSENZ NORMAL WS
2CKA006132A0347	KNX PRÄSENZ NORMAL SB
2CKA006132A0348	KNX PRÄSENZ PREMIUM WS
2CKA006132A0349	KNX PRÄSENZ PREMIUM SB
2CKA006132A0350	KNX BEWEGUNGSMELDER SKY WS
2CKA006132A0358	BW-STANDARD
2CKA006132A0359	BW-STANDARD
2CKA006132A0363	BW-STANDARD
2CKA006132A0364	BW-STANDARD
2CKA006132A0365	BW-STANDARD
2CKA006132A0366	BW-STANDARD
2CKA006132A0367	BW-STANDARD
2CKA006132A0368	BW-STANDARD
2CKA006132A0372	BW-STANDARD
2CKA006132A0374	BW-STANDARD
2CKA006132A0376	BW-STANDARD
2CKA006132A0377	BW-STANDARD
2CKA006132A0378	BW-STANDARD
2CKA006132A0379	BW-STANDARD
2CKA006132A0380	BW-STANDARD
2CKA006132A0381	BW-STANDARD
2CKA006132A0385	BW-STANDARD
2CKA006132A0397	KNX Presence Cor. W
2CKA006132A0398	KNX Presence Cor. S
2CKA006132A0399	KNX PRÄSENZ COR. WS
2CKA006132A0400	KNX PRÄSENZ COR. SB
2CKA006132A0411	KNX Präsenz Cor. Prem. WS
2CKA006132A0412	KNX Presence Cor. Prem. S
2CKA006132A0413	KNX PRÄSENZ COR. PREM. WS
2CKA006132A0414	KNX PRÄSENZ COR. PREM. SB
2CKA006133A0214	FM push button coupling 1/2gang
2CKA006133A0215	FM push button coupling 2/4gang
2CKA006133A0224	Push-button coupler 2g AP
2CKA006133A0225	Push-button coupler 2g AP
2CKA006133A0226	Push-button coupler 4g AP
2CKA006133A0227	Push-button coupler 4g AP
2CKA006134A0309	RAUMTEMPERATURREGLER
2CKA006134A0310	THERMOSTATO KNX
2CKA006200A0053	WL-Mov. detector/act. 1g
2CKA006200A0056	WL-BEW.MELD./SCHALT. 1-F
2CKA006200A0058	WL-Mov. detector/act. 1g
2CKA006200A0063	WL-Mov. detector/act. 1g
2CKA006200A0065	WL-BEW.MELD./SCHALT. 1-F
2CKA006200A0083	WL-BEW.MELD./SCHALT. 1-F
2CKA006200A0085	WL-BEW.MELD./SCHALT. 1-F
2CKA006200A0086	WL-BEW.MELD./SCHALT. 1-F
2CKA006200A0117	WL-BEW.MELD./SCHALT.1-F,44
2CKA006200A0129	WL-MovDetect/act. 1g, 44
2CKA006220A0007	Busch-free@home Panel 4.3"
2CKA006220A0008	Busch-free@home Panel 4.3"
2CKA006220A0107	BEWEGUNGSMELDER
2CKA006220A0108	BEWEGUNGSMELDER
2CKA006220A0109	BEWEGUNGSMELDER
2CKA006220A0110	BEWEG.MELD./SCHALTAKT. 1-F
2CKA006220A0111	Mov. detector/actuator 1g
2CKA006220A0112	BEWEG.MELD./SCHALTAKT. 1-F
2CKA006220A0113	Movement detector
2CKA006220A0114	BEWEGUNGSMELDER
2CKA006220A0116	BEWEG.MELD./SCHALTAKT. 1-F
2CKA006220A0119	ABB-FREE@HOMETOUCH 4.3"
2CKA006220A0120	ABB-FREE@HOMETOUCH 4.3"
2CKA006220A0212	BEWEGUNGSMELDER
2CKA006220A0214	BEWEGUNGSMELDER
2CKA006220A0219	Movement detector
2CKA006220A0229	BEWEGUNGSMELDER , 44X44
2CKA006220A0231	BEW.MELD./SCHALT.1-F,44X44

2CKA006220A0265	BEWEGUNGSMELDER , 44X44
2CKA006220A0369	BEWEGUNGSMELDER
2CKA006220A0370	BEWEG.MELD./SCHALTAKT. 1-F
2CKA006220A0410	Movement detector
2CKA006220A0427	BEWEGUNGSMELDER
2CKA006220A0428	Mov. detector/actuator 1g
2CKA006220A0444	BEWEGUNGSMELDER
2CKA006220A0495	BEWEGUNGSMELDER
2CKA006220A0496	BEWEG.MELD./SCHALTAKT. 1-F
2CKA006220A0512	BEWEGUNGSMELDER
2CKA006220A0513	BEWEG.MELD./SCHALTAKT. 1-F
2CKA006220A0547	BEWEGUNGSMELDER
2CKA006220A0564	BEWEGUNGSMELDER
2CKA006220A0616	BEWEG.MELD./SCHALTAKT. 1-F
2CKA006220A0632	BEWEGUNGSMELDER
2CKA006220A0633	Mov. detector/actuator 1g
2CKA006220A0683	Movement detector
2CKA006220A0787	BEWEGUNGSMELDER TANGO
2CKA006220A0789	BEWEGUNGSMELDER TANGO
2CKA006220A0795	BEWEGUNGSMELDER TIME
2CKA006220A0796	BEWEGUNGSMELDER TIME
2CKA006220A0798	BEWEGUNGSMELDER TIME
2CKA006220A0804	Movement detector Time
2CKA006220A0805	BEWEG./SCHALTAKT. TANGO
2CKA006220A0813	BEWEG./SCHALTAKT. TIME
2CKA006220A0814	BEWEG./SCHALTAKT. TIME
2CKA006220A0816	BEWEG./SCHALTAKT. TIME
2CKA006220A0825	BEWEGUNGSMELDER LEVIT
2CKA006220A0826	Movement detector Levit
2CKA006220A0828	Movement detector Levit
2CKA006220A0829	Movement detector Levit
2CKA006220A0831	BEWEG./SCHALTAKT. LEVIT
2CKA006300A1548	BUSCH-WÄCHTER 180°
2CKA006300A1568	BUSCH-WÄCHTER 180°
2CKA006300A1584	BUSCH-WÄCHTER 180°
2CKA006300A1596	BUSCH-WÄCHTER 180°
2CKA006300A1620	BUSCH-WÄCHTER 180°
2CKA006300A1629	BUSCH-WÄCHTER 180°
2CKA006320A0002	TRITON 1/2FACH MF/IR
2CKA006320A0003	TRITON 1/2FACH MF/IR
2CKA006320A0004	TRITON 1/2FACH MF/IR
2CKA006320A0005	TRITON 1/2FACH MF/IR
2CKA006320A0006	TRITON 1/2FACH MF/IR
2CKA006320A0007	triton 1/2gang MF/IR
2CKA006320A0008	TRITON 1/2FACH MF/IR
2CKA006320A0009	TRITON 1/2FACH MF/IR
2CKA006320A0010	TRITON 1/2FACH MF/IR
2CKA006320A0011	TRITON 3/6FACH MF/IR
2CKA006320A0012	TRITON 3/6FACH MF/IR
2CKA006320A0013	TRITON 3/6FACH MF/IR
2CKA006320A0014	TRITON 3/6FACH MF/IR
2CKA006320A0015	TRITON 3/6FACH MF/IR
2CKA006320A0016	TRITON 3/6FACH MF/IR
2CKA006320A0017	TRITON 3/6FACH MF/IR
2CKA006320A0018	TRITON 3/6FACH MF/IR
2CKA006320A0019	TRITON 3/6FACH MF/IR
2CKA006320A0020	TRITON 3/6FACH MF/IR
2CKA006320A0031	TRITON 5/10FACH MF/IR
2CKA006320A0032	TRITON 5/10FACH MF/IR
2CKA006320A0033	TRITON 5/10FACH MF/IR
2CKA006320A0034	TRITON 5/10FACH MF/IR
2CKA006320A0035	TRITON 5/10FACH MF/IR
2CKA006320A0036	TRITON 5/10FACH MF/IR
2CKA006320A0037	TRITON 5/10FACH MF/IR
2CKA006320A0038	TRITON 5/10FACH MF/IR
2CKA006320A0039	TRITON 5/10FACH MF/IR
2CKA006320A0040	TRITON 5/10FACH MF/IR
2CKA006320A0051	TRITON 3/6FACH MF/IR RTR
2CKA006320A0052	TRITON 3/6FACH MF/IR RTR
2CKA006320A0053	TRITON 3/6FACH MF/IR RTR
2CKA006320A0054	TRITON 3/6FACH MF/IR RTR
2CKA006320A0055	TRITON 3/6FACH MF/IR RTR
2CKA006320A0056	TRITON 3/6FACH MF/IR RTR
2CKA006320A0057	TRITON 3/6FACH MF/IR RTR
2CKA006320A0058	TRITON 3/6FACH MF/IR RTR
2CKA006320A0059	TRITON 3/6FACH MF/IR RTR
2CKA006320A0060	TRITON 3/6FACH MF/IR RTR
2CKA006320A0061	TRITON 5/10FACH MF/IR RTR
2CKA006320A0062	TRITON 5/10FACH MF/IR RTR
2CKA006320A0063	TRITON 5/10FACH MF/IR RTR
2CKA006320A0064	TRITON 5/10FACH MF/IR RTR
2CKA006320A0065	TRITON 5/10FACH MF/IR RTR
2CKA006320A0066	TRITON 5/10FACH MF/IR RTR
2CKA006320A0067	TRITON 5/10FACH MF/IR RTR
2CKA006320A0068	TRITON 5/10FACH MF/IR RTR
2CKA006320A0069	TRITON 5/10FACH MF/IR RTR
2CKA006320A0070	TRITON 5/10FACH MF/IR RTR
2CKA006401A0048	UNIVERSAL-RELAIS-EINS.
2CKA006401A0049	UNIVERSAL-RELAIS-EINS.
2CKA006401A0055	UNIVERSAL-RELAIS-EINSATZ
2CKA006410A0375	Blind Control Basis Insert, FM

2CKA006410A0376	Blind Control Basis Insert, FM
2CKA006410A0377	Blind Control Switch Insert, FM
2CKA006410A0378	Blind Control Switch Insert, FM
2CKA006410A0379	Blind Control Switch Insert, FM
2CKA006410A0380	Blind Control Switch Insert, FM
2CKA006410A0381	Blind control switch insert
2CKA006410A0385	Shutter control employment
2CKA006410A0386	Blind control basis insert
2CKA006410A0406	BCCI timer set, RSI
2CKA006410A0407	BCCI timer set, BSI
2CKA006410A0408	BCCI timer set, Fut.
2CKA006430A0144	B-ELEMENT JAL-CONTR. IMP
2CKA006430A0337	B-ELEMENT JAL-CONTR. IMP.
2CKA006430A0338	B-ELEMENT JAL-CONTR. IMP
2CKA006430A0379	B-ELEMENT JAL-CONTR. IMP
2CKA006430A0381	B-ELEMENT JAL-CONTR. IMP
2CKA006500A0791	DAEMMERUNGSSCHALTER OCEAN
2CKA006500A0792	DAEMMERUNGSSCHALTER ALPINWEIß
2CKA006512A0298	DIMMER 500 W/VA
2CKA006512A0299	Dimmer 420 VA
2CKA006512A0302	DIMMER DREHBETAETIGUNG
2CKA006512A0304	DIMMER 500 W/VA
2CKA006512A0305	Dimmer 420 VA
2CKA006512A0318	Rotary Dimmer LE 500 VA
2CKA006512A0323	LED-DIM. 2D AN 200 VA
2CKA006512A0334	LED-DIM. 2D 250 VA
2CKA006512A0335	LED-DIM. 2D 250 VA
2CKA006512A0338	LED-DIM. 2D 250 VA
2CKA006512A0339	LED-DIMMER, REG
2CKA006512A0340	LED-DIMMER, REG
2CKA006512A0344	LED-DIM. 2D 400 VA
2CKA006512A0345	LED-DIM. 2D 400 VA
2CKA006512A0346	LED-DIM. 2D 400 VA
2CKA006512A0347	LED-DIM. 2D 400 VA
2CKA006512A0348	LED-DIMMER-SET, RSI
2CKA006512A0349	LED-DIMMER-SET, BSI
2CKA006512A0350	LED DIMMER SET, FUT.
2CKA006512A0351	Rotary dimmer,RC,420W, Fut
2CKA006513A0576	Dimmer Insert, FM
2CKA006513A0586	DIMMER DREHBETAETIGUNG
2CKA006513A0594	Univ. Dimmer 420W/VA
2CKA006513A0597	Rotary Dimmer UNI 420 VA
2CKA006515A0654	DIMMER AP 600 W
2CKA006515A0704	Dimmer Insert, FM
2CKA006515A0838	Dimmer 60-600 VA
2CKA006515A0840	DIMMER EINSATZ
2CKA006515A0842	BUSCH-DIMMER
2CKA006515A0843	BUSCH-DIMMER
2CKA006515A0846	BUSCH-DIMMER
2CKA006515A0849	Rotary Dimmer LE 600 W
2CKA006520A0226	Dimmer Insert, FM
2CKA006520A0227	Dimmer Insert, FM
2CKA006531A0032	Dimmer, FM
2CKA006550A0041	Dimmer Insert, FM
2CKA006550A0042	Dimmer Insert, FM
2CKA006560A1205	BUSCH-MEMORY-TASTDIMMER-EINSATZ
2CKA006565A0056	BUSCH-MEMORY-SERIENDIMMER
2CKA006565A0057	BUSCH-MEMORY-SERIENDIMMER
2CKA006590A0169	Dimmer Insert, FM
2CKA006590A0170	Power Module 315 W/VA, FM
2CKA006590A0172	LEISTUNGSBAUSTEIN 315W/VA
2CKA006590A0176	BUSCH-UNIV. ZENTRALDIMMER
2CKA006590A0177	BUSCH-UNIVERS.-LEISTUNGSBAUST.
2CKA006590A0178	UNIV. ZENTRALDIMMER
2CKA006590A0179	Capacity Booster, MDRC
2CKA006599A2035	Electronic Potentiometer, FM
2CKA006599A2266	EB-ELEKTRONIK-POTI F. EVG
2CKA006599A2563	ELEKTRONIK-POTI REG
2CKA006599A2597	B-ELEMENT IMP MEM-D.
2CKA006599A2814	POTENTIOMETER 0-10 V
2CKA006599A2815	B-ELEMENT SI MEM-D.
2CKA006599A2816	B-ELEMENT R-SI MEM-D.
2CKA006599A2820	B-ELEMENT A-NEA MEM-D.
2CKA006599A2821	B-ELEMENT A-NEA MEM-D.
2CKA006599A2822	B-ELEMENT A-NEA MEM-D.
2CKA006599A2824	B-ELEMENT A-NEA MEM-D.
2CKA006599A2831	B-ELEMENT SF MEM-D.
2CKA006599A2834	B-ELEMENT SF MEM-D.
2CKA006599A2869	B-ELEMENT A-E MEM-D.
2CKA006599A2870	B-ELEMENT A-E MEM-D.
2CKA006599A2873	Electronic Potentiometer, FM
2CKA006599A2881	B-ELEMENT SOLO MEM-TAST.
2CKA006599A2887	BEDIENELEMENT
2CKA006599A2888	BEDIENELEMENT

2CKA006599A2889	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2890	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2891	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2894	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2900	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2903	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2906	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2908	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2914	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2920	B-ELEMENT IMP. MEMO. DIM.
2CKA006599A2921	B-ELEMENT IMP. MEMO. DIM.
2CKA006599A2926	BEDIENELEMENT
2CKA006599A2927	BEDIENELEMENT
2CKA006599A2942	BEDIENELEMENT
2CKA006599A2943	Dimmer Control Cover
2CKA006599A2960	POTENTIOMETER 1-10 V
2CKA006599A2963	B-ELEMENT SF MEM-D.
2CKA006599A2964	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2968	B-ELEMENT SF MEM-D.
2CKA006599A2969	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2972	B-ELEMENT IMP MEM-D.
2CKA006599A2973	B-ELEMENT MIT GLIMMLAMPE
2CKA006599A2976	BEDIENELEMENT IMP. MEM.D.
2CKA006599A2977	BEDIENELEMENT M.GLIMMLAMPE
2CKA006599A2985	DALI-POTI BC
2CKA006599A2986	DALI-POWER-POTI BC MIT SV
2CKA006599A2987	DALI-POTI BC
2CKA006599A2988	DALI-POWER-POTI BC MIT SV
2CKA006599A3010	B-ELEMENT SF MEM-D.
2CKA006599A3011	B-ELEMENT R-SI MEM-D.
2CKA006599A3012	1-10 V-POTI, PHILIPS
2CKA006599A3013	DALI-POWER-POTI , PHILIPS
2CKA006599A3015	DALI-POTI BC
2CKA006599A3016	DALI-POWER-POTI BC MIT SV
2CKA006599A3018	B-ELEMET E-EINS.
2CKA006599A3019	B-ELEMET DIM-EINS. 2-F
2CKA006599A3025	DALI-POTI TW BC
2CKA006599A3026	DALI-Power-Poti TW BC PS
2CKA006599A3029	Rotary dimmer, 1-10 V
2CKA006599A3030	DREHDIMMER, UP, DALI, POW.
2CKA006599A3031	Rotary dimmer, DALI, Pow.
2CKA006616A0544	DREHZAHLSTELLER UP SI
2CKA006630A0255	DREHZAHLSTELLER AP 0,8A
2CKA006630A0503	DREHZAHLSTELLER
2CKA006700A0031	BUSCH-WÄCHTER® 220° WAVE
2CKA006700A0032	BUSCH-WÄCHTER® 220° WAVE
2CKA006700A0033	BUSCH-WÄCHTER® 220° WAVE
2CKA006700A0034	BUSCH-WÄCHTER® 220° WAVE
2CKA006700A0035	BUSCH-WÄCHTER® 220° WAVE
2CKA006700A0037	BuschWächter® 220° Wave
2CKA006710A0001	ZLLNetzteilEinsatz
2CKA006710A0002	ZLLRelaisEinsatz
2CKA006710A0003	ZLL-DIMMER-EINSATZ
2CKA006710A0004	ZLL-Plug-in unit Switch
2CKA006800A1674	BW-SENSOR AW44
2CKA006800A1740	BW-SENSOR AW44 UP
2CKA006800A1898	BW-SENSOR AW44
2CKA006800A2317	BUSCH-WÄCHTER® 90 PROFESSIONALLINE
2CKA006800A2318	BUSCH-WÄCHTER® 90 PROFESSIONALLINE
2CKA006800A2319	BUSCH-WÄCHTER® 90 PROFESSIONALLINE
2CKA006800A2321	BUSCH-WÄCHTER® 90 PROFESSIONALLINE
2CKA006800A2330	BW® 220 PROFESSIONALLINE
2CKA006800A2331	BW® 220 PROFESSIONALLINE
2CKA006800A2332	BW® 220 PROFESSIONALLINE
2CKA006800A2334	BW® 220 PROFESSIONALLINE
2CKA006800A2335	BW® 220 PROFESSIONALLINE
2CKA006800A2353	BW-SENSOR AW44, BRAUN
2CKA006800A2354	BW-SENSOR AW44, ALUSILBER
2CKA006800A2520	BUSCH-WÄCHTER® 220°
2CKA006800A2521	BUSCH-WÄCHTER® 220°
2CKA006800A2522	BUSCH-WÄCHTER® 220°
2CKA006800A2523	BUSCH-WÄCHTER® 220°
2CKA006800A2524	BUSCH-WÄCHTER® 220°
2CKA006800A2525	BUSCH-WÄCHTER® 220°
2CKA006800A2526	BUSCH-WÄCHTER® 220°

2CKA006800A2527	BUSCH-WÄCHTER® 220°
2CKA006800A2528	BUSCH-WÄCHTER® 220° MIT FB
2CKA006800A2529	BUSCH-WÄCHTER® 220° MIT FB
2CKA006800A2530	BUSCH-WÄCHTER® 220° MIT FB
2CKA006800A2531	BUSCH-WÄCHTER® 220° MIT FB
2CKA006800A2532	BUSCH-WÄCHTER® 220° MIT FB
2CKA006800A2533	BUSCH-WÄCHTER® 220° MIT FB
2CKA006800A2534	BUSCH-WÄCHTER® 220° MIT FB
2CKA006800A2535	BUSCH-WÄCHTER® 220° MIT FB
2CKA006800A2536	BUSCH-WÄCHTER® 220° SELECT
2CKA006800A2537	BUSCH-WÄCHTER® 220° SELECT
2CKA006800A2542	BUSCH-WÄCHTER® 70°
2CKA006800A2543	BUSCH-WÄCHTER® 70°
2CKA006800A2544	BUSCH-WÄCHTER® 70°
2CKA006800A2545	BUSCH-WÄCHTER® 70°
2CKA006800A2546	Busch-Watchdog 70
2CKA006800A2548	BUSCH-WÄCHTER® 70°
2CKA006800A2550	BUSCH-WÄCHTER® 280° MIT FB
2CKA006800A2551	BUSCH-WÄCHTER® 280° MIT FB
2CKA006800A2552	BUSCH-WÄCHTER® 280° MIT FB
2CKA006800A2553	BUSCH-WÄCHTER® 280° MIT FB
2CKA006800A2554	BUSCH-WÄCHTER® 280° MIT FB
2CKA006800A2556	BUSCH-WÄCHTER® 280° MIT FB
2CKA006800A2557	BUSCH-WÄCHTER® 280° MIT FB
2CKA006800A2574	BUSCH-WÄCHTER® 220° PRE FB
2CKA006800A2575	BUSCH-WÄCHTER® 220° PRE FB
2CKA006800A2576	BUSCH-WÄCHTER® 220° PRE FB
2CKA006800A2577	BUSCH-WÄCHTER® 220° PRE FB
2CKA006800A2578	BUSCH-WÄCHTER® 220° PRE FB
2CKA006800A2580	BUSCH-WÄCHTER® 220° PRE FB
2CKA006800A2581	Busch-Watchdog 220° pre RC
2CKA006800A2599	BUSCH-WÄCHTER® 220° MIT FB
2CKA006800A2600	BUSCH-WÄCHTER® 220° MIT FB
2CKA006800A2607	BUSCH-WÄCHTER® 110
2CKA006800A2608	BUSCH-WÄCHTER® 110
2CKA006800A2609	BUSCH-WÄCHTER® 110
2CKA006800A2610	BUSCH-WÄCHTER® 110
2CKA006800A2614	Busch-Watchdog 110
2CKA006800A2732	PRÄSENZ COMP. REL.
2CKA006800A2733	Presence Comp. rel.
2CKA006800A2734	PRÄSENZ UNI. REL.
2CKA006800A2735	Präsenz Uni. Rel.
2CKA006800A2736	Presence Comp. e-contact
2CKA006800A2737	Präsenz Comp. e-contact
2CKA006800A2738	PRÄSENZ UNI. E-CONTACT
2CKA006800A2740	PRÄSENZ UNI. BT REL.
2CKA006800A2741	PRÄSENZ UNI. BT REL.
2CKA006800A2742	PRÄSENZ UNI. BT E-CONTACT
2CKA006800A2743	PRÄSENZ UNI. BT E-CONTACT
2CKA006800A2744	PRÄSENZ CORR. BT REL.
2CKA006800A2745	PRÄSENZ CORR. BT REL.
2CKA006800A2746	PRÄSENZ UNI. BT DALI
2CKA006800A2747	PRÄSENZ UNI. BT DALI
2CKA006800A2748	PRÄSENZ CORR. BT DALI
2CKA006800A2749	PRÄSENZ CORR. BT DALI
2CKA006800A2750	PRÄSENZ COMP. SL
2CKA006800A2753	Präsenz Uni. SL
2CKA006800A2755	Präsenz Corr. SL
2CKA006800A2758	PRÄSENZ UNI. DALI SL
2CKA006800A2759	PRÄSENZ UNI. DALI SL
2CKA006800A2760	PRÄSENZ CORR. DALI SL
2CKA006800A2761	PRÄSENZ CORR. DALI SL
2CKA006800A2766	PRÄSENZ COMP. REL.
2CKA006800A2767	PRÄSENZ COMP. REL.
2CKA006800A2768	PRÄSENZ UNI. REL.
2CKA006800A2769	Presence Uni. rel.
2CKA006800A2770	PRÄSENZ COMP. E-CONTACT
2CKA006800A2771	PRÄSENZ COMP. E-CONTACT
2CKA006800A2772	Presence Uni. e-contact
2CKA006800A2773	PRÄSENZ UNI. E-CONTACT
2CKA006800A2774	PRÄSENZ UNI. BT REL.
2CKA006800A2775	PRÄSENZ UNI. BT REL.
2CKA006800A2776	PRÄSENZ UNI. BT E-CONTACT
2CKA006800A2777	PRÄSENZ UNI. BT E-CONTACT

2CKA006800A2778	PRÄSENZ CORR. BT REL.
2CKA006800A2779	PRÄSENZ CORR. BT REL.
2CKA006800A2780	PRÄSENZ UNI. BT DALI
2CKA006800A2781	PRÄSENZ UNI. BT DALI
2CKA006800A2783	PRÄSENZ CORR. BT DALI
2CKA006800A2784	Presence Comp. SL
2CKA006800A2785	PRÄSENZ COMP. SL
2CKA006800A2786	PRÄSENZ UNI. SL
2CKA006800A2787	PRÄSENZ UNI. SL
2CKA006800A2788	PRÄSENZ CORR. SL
2CKA006800A2789	PRÄSENZ CORR. SL
2CKA006800A2793	PRÄSENZ UNI. DALI SL
2CKA006800A2795	PRÄSENZ CORR. DALI SL
2CKA006800A2796	Presence Corr. rel.
2CKA006800A2797	Präsenz Corr. Rel.
2CKA006800A2802	PRÄSENZ UNI. BT E-CONT. IP
2CKA006800A2803	PRÄSENZ UNI. BT E-CONT. IP
2CKA006800A2804	PRÄSENZ UNI. BT E-CONT. IP
2CKA006800A2805	PRÄSENZ UNI. BT E-CONT. IP
2CKA001754A4258	Rahmen 1f., Bronze
2CKA001754A4259	Rahmen 2f., Bronze
2CKA001754A4260	Rahmen 3f., Bronze
2CKA001754A4261	RAHMEN 4-F., BRONZE
2CKA006197A0047	LEDDimmer 4x210W
2CKA006197A0049	LED-Dim actuator 6x210W
2CKA006197A0064	UNIVERSAL-DIMMAKTOR 4-FACH 210W REG
2CKA006200A0154	System Access Point 2.0
2CKA006200A0155	System Access Point 2.0
2CKA006220A0728	Dimmaktor 4x210W, REG
2CKA006220A0729	Dimmaktor 4x210W, REG
2CKA006220A0730	Dim actuator 6x210W, MDRC
2CKA006220A0731	Dim actuator 6x210W, MDRC
2CKA006310A0156	ABSCHLUSSLEISTE OBEN IR
2CKA006310A0157	ABSCHLUSSLEISTE OBEN IR
2CKA006310A0158	Abschlussl. unten Temperaturf.
2CKA006310A0160	Abschlussl. unten Temperaturf.
2CKA006310A0161	Abschlussl. unten Temperaturf.
2CKA006310A0162	Abschlussl. unten Temperaturf.
2CKA006310A0164	Abschlussl. unten Temperaturf.
2CKA006310A0165	Abschlussl. unten Temperaturf.
2CKA006310A0181	ABSCHLUSSLEISTE UNTEN TEMPERATURFÜHLER
2CKA006310A0182	Abschlussleiste unten Temperaturfühler
2CKA006310A0183	ABSCHLUSSLEISTE OBEN RTR
2CKA006310A0184	ABSCHLUSSLEISTE OBEN RTR
2CKA006512A0320	LED dimmer, rotary control
2CKA006512A0321	LED dimmer, rotary control
2CKA006512A0333	LED dimmer, rotary control
2CKA006512A0341	LED dimmer, rotary control
2CKA006512A0342	LED dimmer, rotary control
2CKA006590A0192	LED-Dimmer, MDRC, 800 VA
2CKA006590A0193	LED-Dimmer, MDRC, 800 VA
2CKA005210A0035	RTR OBJEKTBEREICH
2CKA005210A0039	bus coupler
2CKA006115A0179	Bedienelement 1f. M. BAU
2CKA006115A0180	Control element 1g w. BAU
2CKA006115A0181	Bedienelement 1f. M. BAU
2CKA006115A0182	Bedienelement 1f. M. BAU
2CKA006115A0183	Bedienelement 1f. M. BAU
2CKA006115A0187	Bedienelement 1f. M. BAU
2CKA006115A0190	Bedienelement 1f. M. BAU
2CKA006115A0205	Bedienelement 1f. M. BAU
2CKA006115A0206	Bedienelement 1f. M. BAU
2CKA006115A0207	Bedienelement 1f. M. BAU
2CKA006115A0211	Bedienelement 1f. M. BAU
2CKA006115A0214	Bedienelement 1f. M. BAU
2CKA006115A0215	Bedienelement 1f. M. BAU
2CKA006116A0170	Bedienelement 2f. m. BAU
2CKA006116A0171	Control element 2g w. BAU
2CKA006116A0172	Bedienelement 2f. m. BAU
2CKA006116A0173	Bedienelement 2f. m. BAU
2CKA006116A0174	Bedienelement 2f. m. BAU
2CKA006116A0178	Bedienelement 2f. m. BAU
2CKA006116A0181	Bedienelement 2f. m. BAU
2CKA006116A0182	Bedienelement 2f. m. BAU
2CKA006116A0195	Bedienelement 2f. m. BAU
2CKA006116A0196	Bedienelement 2f. m. BAU
2CKA006116A0197	Bedienelement 2f. m. BAU
2CKA006116A0201	Bedienelement 2f. m. BAU
2CKA006116A0202	Control element 2g w. BAU
2CKA006116A0204	Bedienelement 2f. m. BAU
2CKA006116A0205	Bedienelement 2f. m. BAU
2CKA006117A0196	Bedienelement 4f. m. BAU
2CKA006117A0197	Bedienelement 4f. m. BAU
2CKA006117A0198	Bedienelement 4f. m. BAU
2CKA006117A0199	Bedienelement 4f. m. BAU
2CKA006117A0200	Bedienelement 4f. m. BAU
2CKA006117A0204	Bedienelement 4f. m. BAU
2CKA006117A0205	Bedienelement 4f. m. BAU

2CKA006117A0207	Bedienelement 4f. m. BAU
2CKA006117A0208	Bedienelement 4f. m. BAU
2CKA006117A0221	Bedienelement 4f. m. BAU
2CKA006117A0222	Bedienelement 4f. m. BAU
2CKA006117A0223	Bedienelement 4f. m. BAU
2CKA006117A0227	Bedienelement 4f. m. BAU
2CKA006117A0230	Bedienelement 4f. m. BAU
2CKA006117A0231	Bedienelement 4f. m. BAU
2CKA006120A0074	Bus coupler, FM
2CKA006120A0075	Bus coupler, FM
2CKA006133A0220	Push-button coupler 2gang
2CKA006133A0221	Push-button coupler 2gang
2CKA006133A0222	Push-button coupler 4gang
2CKA006133A0223	Push-button coupler 4gang
2CKA006134A0318	RTC
2CKA006134A0319	RTC
2CKA006220A0002	Sensor Unit 1gang
2CKA006220A0003	Sensor Unit 2gang
2CKA006220A0010	Raumtemp.regler
2CKA006220A0012	Sensor/Schaltakt. 1/1f
2CKA006220A0013	Sensor/Schaltakt. 2/1f
2CKA006220A0014	Sensor/Schaltakt. 2/2f
2CKA006220A0015	Sensor/Dim actuator 1/1g
2CKA006220A0016	Sensor/Dim actuator 2/1g
2CKA006220A0017	Sensor/Blind actuator 1/1g
2CKA006220A0018	Sensor/Blind actuator 2/1g
2CKA006220A0117	Sensor Unit 1gang
2CKA006220A0118	Sensor Unit 2gang
2CKA006220A0122	Raumtemp.regler
2CKA006220A0123	Sensor/Schaltaktor 1/1f
2CKA006220A0124	Sensor/Schaltaktor 2/1f
2CKA006220A0125	Sensor/Schaltaktor 2/2f
2CKA006220A0126	Sensor/Dim actuator 1/1g
2CKA006220A0127	Sensor/Dim actuator 2/1g
2CKA006220A0128	Sensor/Blind actuator 1/1g
2CKA006220A0129	Sensor/Blind actuator 2/1g
2CKA006220A0222	Sensor Unit 1gang, 44x44
2CKA006220A0223	Sensor Unit 2gang, 44x44
2CKA006220A0232	SENS/ SCHALTAKT 1/1, 44X44
2CKA006220A0233	Sens/ Schaltakt 2/1, 44x44
2CKA006220A0234	Sens/ Schaltakt 2/2, 44x44
2CKA006220A0235	SENS/ DIMMAKTOR 1/1, 44X44
2CKA006220A0236	Sens/ Dimact. 2/1, 44x44
2CKA006220A0237	Sens/ Blindact. 1/1, 44x44
2CKA006220A0238	Sens/ Blindact. 2/1, 44x44
2CKA006220A0263	Sensor Unit 1gang, 44x44
2CKA006220A0264	Sensor Unit 2gang, 44x44
2CKA006220A0269	Sens/ Schaltakt 2/2, 44x44
2CKA006220A0272	Sens/ Blindact. 1/1, 44x44
2CKA006220A0276	Raumtemp.regler
2CKA006220A0277	Raumtemp.regler
2CKA006220A0393	KLEINKOMBI
2CKA006300A1538	Bedienelement 1f.
2CKA006300A1545	Bedienelement 4f. mit RTR
2CKA006300A1546	Bedienelement 4f. mit RTR
2CKA006300A1547	Raumtemperaturregler
2CKA006300A1565	Bedienelement 4f. mit RTR
2CKA006300A1566	Bedienelement 4f. mit RTR
2CKA006300A1567	Raumtemperaturregler
2CKA006300A1583	Raumtemperaturregler
2CKA006300A1595	Raumtemperaturregler
2CKA006300A1619	Raumtemperaturregler
2CKA006300A1628	Raumtemperaturregler
2CKA006330A0001	HVAC-Slave-device,6f. CE
2CKA006330A0002	HVAC-Slave-device,6f. CE
2CKA006330A0003	HVACGerät,6fach BE
2CKA006330A0004	HVAC-device,6f. CE
2CKA006330A0005	HVAC-Slave-device,10f CE
2CKA006330A0006	HVAC-Slave-device,10f CE
2CKA006330A0007	HVAC-device,10f. CE
2CKA006330A0008	HVAC-device,10f. CE
2CKA006330A0009	HVAC/CO2-device,6f CE
2CKA006330A0010	HVAC/CO2-device,6f CE
2CKA006330A0011	HVAC/CO2-device,10f CE
2CKA006330A0012	HVAC/CO2-device,10f CE
2CKA006330A0013	8f. Bedienelement
2CKA006330A0014	8f. Bedienelement
2CKA006330A0015	12f. Bedienelement
2CKA006330A0016	12f. Control element
2CKA001012A2168	Serienschalter
2CKA001012A2178	Serienschalter
2CKA001012A2186	Jalousieschalter 1-pol.
2CKA001012A2233	Schalter UP Serie
2CKA001012A2234	Schalter UP Serie
2CKA001012A2238	Schalter UP Serienkontr.
2CKA001012A2240	Schalter UP DND/MUR
2CKA001012A2241	Schalter UP DND/MUR 12V
2CKA001032A0487	Raumtemperaturregler Eins.
2CKA001032A0488	Raumtemperaturregler Eins.
2CKA001032A0489	Raumtemperaturregler Eins.
2CKA001032A0490	Raumtemperaturregler Eins.
2CKA001085A1634	K-Wechselsch. oc H-Notsch.
2CKA001085A1636	K-Wechselsch. oc 10A 1P
2CKA001315A0449	SI-ZUGSCHALTER, ZUGSCHNUR

2CKA001413A1102	Jalousietaster 1-pol.
2CKA001484A0383	Taster oc Schliesser
2CKA001684A0332	Komb. oc Wechselsch./Steckd.
2CKA001684A0333	Komb. oc Wechselsch./Steckd.
2CKA001710A2231	C-SCH. AW44 PZ
2CKA001710A3805	C-SCH. AW44 Schluesselsch.
2CKA002017A0873	Steckdose Erd.eBS.Steckkl.
2CKA002017A0874	Steckdose Erd.eBS.Steckkl.
2CKA002083A0841	SCHUKO® Steckdose, EDV
2CKA002084A0728	D-Steckd. oc bel.
2CKA002124A0024	Steckdose Nema AP ocean
2CKA002124A0025	Steckdose
2CKA002211A0092	STECKER WD
2CKA002211A0100	STECKER WD
2CKA002211A0118	WD STECKER
2CKA002595A0023	PERILEX-KUPPLUNG
2CKA006133A0201	Inbetriebnahmeschnittstelle/-adapter
2CKA006220A0849	Wetterstation MFH Set
2CKA006220A0850	Wetterstation MFH Set
2CKA006565A0059	Busch-Memory-Seriendimmer
2CKA006565A0060	Busch-Memory-Seriendimmer
2CKA006599A2899	B-Element mit Glimmlampe
2CKA006599A2905	B-Element mit Glimmlampe
2CKA006599A2907	B-Element mit Glimmlampe
2CKA006599A2922	B-Element mit Glimmlampe
2CKA006599A2923	B-Element mit Glimmlampe
2CKA006599A2993	B-Element B55 Mem-D.
2CKA006599A2994	B-Element B55 Mem-D.
2CKA006599A2995	B-Element B55 Mem-D.
2CKA006599A2996	B-Element B55 Mem-D.
2CKA006599A2997	B-Element B55 Mem-D.
2CKA006700A0036	Busch-Wächter® 220° Wave
2CKA006700A0038	Busch-Wächter® 220° Wave
2CKA006800A2579	Busch-Wächter® 220° pre FB
2CKA006800A2782	Präsenz Corr. BT DALI
2CKA001611A0011	KOMBINATION UP SERIENSCH.
2CKA001611A0151	KOMBINATION UP SERIENSCH.
2CKA006400A0398	Netzteil-Einsatz, USB A+C
2CKA006400A0399	Netzteil-Einsatz, USB A+C
2CKA006400A0400	Netzteil-Einsatz, USB A+C
2CKA000000P0001	K-MAT TACTEO TOUCH
2CKA000000P0002	K-MAT TACTEO RTC
2CKA000000P0004	K-MAT TACTEO WATCHDOG
2CKA000000P0006	K-MAT TACTEO TOUCH CUST
2CKA000000P0007	K-MAT TACTEO RTC CUST
2CKA000000P0009	K-MAT TACTEO WATCHDOG CUST

2CKA000299A0032	Potential Balancing Plug
2CKA000471A0037	Built-in Jack
2CKA001032A0483	Room Thermostat, FM
2CKA001032A0484	Room Thermostat, FM
2CKA001032A0485	Room Thermostat, FM
2CKA001032A0486	Room Thermostat, FM
2CKA001032A0497	Room Thermostat, FM
2CKA001032A0498	Room Thermostat, FM
2CKA001032A0512	Room Thermostat, FM
2CKA001032A0513	Room Thermostat, FM
2CKA001032A0514	Room Thermostat, FM
2CKA001032A0515	Room thermostat
2CKA001032A0516	Room thermostat
2CKA001032A0517	FM-insert CO2
2CKA001032A0518	FM-insert CO3
2CKA001101A0918	3-Level Switch
2CKA001101A0919	3-Level Switch
2CKA001712A0165	Connector Box
2CKA001712A0182	Connector Box
2CKA002018A1557	SCHUKO® so lid diff.
2CKA002018A1559	SCHUKO® so lid diff.
2CKA002018A1560	SCHUKO® so lid diff.
2CKA002018A1561	SCHUKO® so lid diff.
2CKA002018A1562	SCHUKO® so lid diff.
2CKA002018A1565	SCHUKO® so lid diff.
2CKA002018A1566	SCHUKO® so lid diff.
2CKA002018A1567	SCHUKO® so lid diff.
2CKA002018A1568	SCHUKO® so lid diff.
2CKA002056A0068	Socket Outl. SI 3g
2CKA002056A0069	Socket Outl. R-SI 3g
2CKA002056A0071	Socket Outl. S 3g
2CKA002495A0026	Equipotential Socket Outlet
2CKA002495A0059	Equipotential Socket Outlet
2CKA002495A0084	Equipotential Socket Outlet,FM
2CKA002495A0085	Equipotential Socket Outlet
2CKA002495A0086	Equipotential Socket Outlet
2CKA002495A0089	Equipotential Socket Outlet,FM
2CKA002495A0090	Equipotential Socket Outlet,FM
2CKA002495A0091	Equipotential Socket Outlet
2CKA002495A0092	Equipotential Socket Outlet
2CKA002495A0095	Equipotential Socket Outlet
2CKA002495A0096	SO-ins equipotential
2CKA002495A0097	Equipotential Socket Outlet
2CKA006115A0453	switsch 6f FM input 5f
2CKA006134A0312	Objekt RTC w. input 5f.

2CKA006134A0313	Objekt RTC w. input 5f.
2CKA006134A0314	RTC w. input 5f.
2CKA006134A0315	RTC w. input 5f.
2CKA006134A0316	CO2 RTC HUM w. input 5f.
2CKA006134A0317	CO2 RTC HUM w. input 5f.
2CKA006134A0349	Air quality sensor with RTC, SM
2CKA006140A0028	Year Time Switch KNX
2CKA006140A0029	Antenna GPS
2CKA006140A0030	Antenna DCF 77
2CKA006146A0022	Brightness/Temperature Sensor
2CKA006181A0012	FM input 5f.
2CKA006181A0013	FM input 5f.
2CKA006330A0057	HVAC/CO2-device,6f CE, studio white matt
2CKA006330A0058	HVAC/CO2-device,6f CE, black matt
2CKA006330A0059	HVAC/CO2-device,6f CE, aluminium sil.
2CKA006330A0060	HVAC/CO2-device,6f CE, studio white matt
2CKA006330A0061	HVAC/CO2-device,6f CE, black matt
2CKA006330A0062	HVAC/CO2-device,6f CE, aluminium silver
2CKA006330A0063	HVAC/CO2-device,10f CE, studio white m
2CKA006330A0064	HVAC/CO2-device,10f CE, black matt
2CKA006330A0065	HVAC/CO2-device,10f CE, aluminium silver
2CKA006330A0066	HVAC/CO2-device,10f CE, studio white m
2CKA006330A0067	HVAC/CO2-device,10f CE, black matt
2CKA006330A0068	HVAC/CO2-device,10f CE, aluminium silver
2CKA006400A0038	Busch-powerDock Insert
2CKA006400A0044	Busch-powerDock Set, LC
2CKA006400A0046	Busch-powerDock Set, USB-C
2CKA006401A0052	Universal Power supply insert
2CKA006401A0053	Universal relay insert
2CKA006410A0392	Countdown timer set
2CKA006410A0393	Timer Insert, FM
2CKA006410A0398	Busch-Timer Control Cover
2CKA006410A0399	Busch-Timer Control Cover
2CKA006410A0400	Busch-Timer Control Cover
2CKA006410A0410	BCOM timer
2CKA006515X0654	DIMMER,SURFACE MOUNTED

2CKA001754A4254	Cover Frame 1-gang
2CKA001754A4255	Cover Frame 2-gang
2CKA001754A4256	Cover Frame 3-gang
2CKA001754A4257	Cover Frame 4-gang
2CKA001754A4356	Cover Frame 1-gang
2CKA001754A4357	Cover Frame 2-gang
2CKA001754A4358	Cover Frame 3-gang
2CKA001754A4359	Cover Frame 4-gang
2CKA001754A4360	Cover Frame 1-gang
2CKA001754A4361	Cover Frame 2-gang
2CKA001754A4362	Cover Frame 3-gang
2CKA001754A4363	Cover Frame 4-gang
2CKA006220A0273	Sens/ Blindact. 2/1, 44x44
2CKA000230A0201	ENDWIDERSTAND 75 OHM
2CKA000230A0250	ANT-EINS. UP STICH
2CKA000230A0268	Ant-Eins. UP Durchg.
2CKA000230A0380	ANT-EINS. UP STICH
2CKA000230A0384	ANTENNE EINS. STICH SAT
2CKA000230A0463	ANTENNE EINS. STICH SAT
2CKA002011A6263	SCHUKO-/USB socket out, 2g
2CKA002011A6264	SCHUKO-/USB socket out, 2g
2CKA002011A6265	SCHUKO-/USB socket out, 2g
2CKA002011A6266	SCHUKO-/USB socket out, 2g
2CKA002011A6267	SCHUKO-/USB socket out, 2g
2CKA002011A6268	SCHUKO-/USB socket out, 2g
2CKA002011A6269	SCHUKO-/USB socket out, 2g
2CKA002011A6270	SCHUKO-/USB socket out, 2g
2CKA002011A6271	SCHUKO-/USB socket out, 2g
2CKA002011A6272	SCHUKO-/USB socket out, 2g
2CKA002011A6273	SCHUKO-/USB socket out, 2g
2CKA002011A6274	SCHUKO-/USB socket out, 2g
2CKA002011A6275	SCHUKO-/USB socket out, 2g
2CKA002011A6276	SCHUKO-/USB socket out, 2g
2CKA002011A6277	SCHUKO-/USB socket out, 2g
2CKA002011A6278	SCHUKO-/USB socket out, 2g
2CKA002011A6279	SCHUKO-/USB socket out, 2g
2CKA002011A6280	SCHUKO-/USB socket out, 2g
2CKA002011A6281	SCHUKO-/USB socket out, 2g
2CKA002011A6282	SCHUKO-/USB socket out, 2g
2CKA002011A6283	SCHUKO-/USB socket out, 2g
2CKA002011A6284	SCHUKO-/USB socket out, 2g
2CKA002011A6285	SCHUKO-/USB socket out, 2g
2CKA002011A6286	SCHUKO-/USB socket out, 2g
2CKA002011A6287	SCHUKO-/USB socket out, 2g
2CKA002011A6288	SCHUKO-/USB socket out, 2g
2CKA002011A6289	SCHUKO-/USB socket out, 2g
2CKA006200A0049	WLSensor/Blind act. 1/1g

2CKA006200A0050	WLSensor/Blind act. 2/1g
2CKA006200A0051	WLRaumtemp.regler
2CKA006200A0052	WLRaumtemp.regler/Aktor
2CKA006200A0079	WLSensor/Blind act. 1/1g
2CKA006200A0080	WLSensor/Blind act. 2/1g
2CKA006200A0081	WLRaumtemp.regler
2CKA006200A0082	WLRaumtemp.regler/Aktor
2CKA006200A0113	WLSens/ Blindact. 1/1, 44
2CKA006200A0114	WLSens/ Blindact. 2/1, 44
2CKA006200A0115	WLRaumtemp.regler
2CKA006200A0116	WLRaumtemp.regler/Aktor
2CKA006200A0125	WLSens/ Blindact. 1/1, 44
2CKA006200A0126	WLSens/ Blindact. 2/1, 44
2CKA006200A0127	WLRaumtemp.regler
2CKA006200A0128	WLRaumtemp.regler/Aktor
2CKA006220A0115	Beweg.meld./Schaltakt. 1f
2CKA006220A0215	Beweg.meld./Schaltakt. 1-f
2CKA006220A0216	Beweg.meld./Schaltakt. 1-f
2CKA006220A0217	Beweg.meld./Schaltakt. 1-f
2CKA006220A0220	Beweg.meld./Schaltakt. 1-f
2CKA006220A0221	Beweg.meld./Schaltakt. 1-f
2CKA006220A0266	Bew.meld./Schalt.1f,44x44
2CKA006220A0267	Sens/ Schaltakt 1/1, 44x44
2CKA006220A0268	Sens/ Schaltakt 2/1, 44x44
2CKA006220A0386	BWSensorSens akt
2CKA006220A0411	Beweg.meld./Schaltakt. 1f
2CKA006220A0445	Beweg.meld./Schaltakt. 1f
2CKA006220A0531	Beweg.meld./Schaltakt. 1f
2CKA006220A0548	Beweg.meld./Schaltakt. 1f
2CKA006220A0565	Beweg.meld./Schaltakt. 1f
2CKA006220A0650	Beweg.meld./Schaltakt. 1f
2CKA006220A0667	Beweg.meld./Schaltakt. 1f
2CKA006220A0684	Beweg.meld./Schaltakt. 1f
2CKA006220A0701	Beweg.meld./Schaltakt. 1f
2CKA006220A0718	Beweg.meld./Schaltakt. 1f
2CKA006220A0806	Beweg./Schaltakt. Tango
2CKA006220A0807	Beweg./Schaltakt. Tango
2CKA006220A0808	Beweg./Schaltakt. Tango
2CKA006220A0809	Beweg./Schaltakt. Tango
2CKA006220A0810	Beweg./Schaltakt. Tango
2CKA006220A0811	Beweg./Schaltakt. Tango
2CKA006220A0812	Beweg./Schaltakt. Tango
2CKA006220A0815	Beweg./Schaltakt. Time
2CKA006220A0817	Beweg./Schaltakt. Time
2CKA006220A0818	Beweg./Schaltakt. Time
2CKA006220A0819	Beweg./Schaltakt. Time
2CKA006220A0820	Beweg./Schaltakt. Time
2CKA006220A0821	Beweg./Schaltakt. Time
2CKA006220A0822	Beweg./Schaltakt. Time
2CKA006220A0832	Beweg./Schaltakt. Levit
2CKA006220A0833	Beweg./Schaltakt. Levit
2CKA006220A0834	Beweg./Schaltakt. Levit
2CKA006220A0835	Beweg./Schaltakt. Levit
2CKA006220A0836	Beweg./Schaltakt. Levit
2CKA006220A0842	Beweg.meld./Schaltakt. 1f
2CKA006220A0845	Beweg.meld./Schaltakt. 1f
2CKA002017A1889	Earth pin-/USB socket out, 2g
2CKA002017A1890	Earth pin-/USB socket out, 2g
2CKA002017A1891	Earth pin-/USB socket out, 2g
2CKA002017A1892	Earth pin-/USB socket out, 2g
2CKA002017A1893	Earth pin-/USB socket out, 2g
2CKA002017A1894	Earth pin-/USB socket out, 2g
2CKA002017A1895	Earth pin-/USB socket out, 2g
2CKA002017A1896	Earth pin-/USB socket out, 2g
2CKA002017A1897	Earth pin-/USB socket out, 2g
2CKA002017A1898	Earth pin-/USB socket out, 2g
2CKA002017A1899	Earth pin-/USB socket out, 2g
2CKA002017A1900	Earth pin-/USB socket out, 2g
2CKA002017A1901	Earth pin-/USB socket out, 2g
2CKA002017A1902	Earth pin-/USB socket out, 2g
2CKA002017A1903	Earth pin-/USB socket out, 2g

SVHC: Lead monoxide (lead oxide), CAS: 1317-36-8

Product Number	Product Name
2CKA006220A0007	Busch-free@homePanel 4.3"
2CKA006220A0008	Busch-free@homePanel 4.3
2CKA006220A0119	ABB-free@homePanel 4.3"
2CKA006220A0120	ABB-free@homePanel 4.3
2CKA006700A0036	Busch-Watchdog 220 WaveLINE
2CKA006700A0038	Busch-Watchdog 220 WaveLINE

SVHC: Lead titanium trioxide, CAS: 12060-00-3

Product Number	Product Name
2CKA006220A0007	Busch-free@homePanel 4.3"
2CKA006220A0008	Busch-free@homePanel 4.3
2CKA006220A0119	ABB-free@homePanel 4.3"
2CKA006220A0120	ABB-free@homePanel 4.3

SVHC: Lead titanium zirconium oxide, CAS: 12626-81-2

Erklärung zur REACH-Verordnung : Anhang I

Product Number	Product Name
2CKA006134A0309	RTC
2CKA006134A0310	RTC

SVHC: N,N-dimethylacetamide, CAS: 127-19-5

Product Number	Product Name
2CKA006200A0067	free@home window sensor, wireless
2CKA006200A0068	free@home universal detector, wireless
2CKA006200A0070	free@home universal detector, wireless
2CKA006200A0101	free@home window sensor, wireless
2CKA006200A0102	free@home universal detector, wireless
2CKA006200A0104	free@home universal detector, wireless
2CKA006200A0141	free@home window sensor, wireless
2CKA006200A0069	free@home window sensor, wireless
2CKA006200A0103	free@home window sensor, wireless
2CKA006200A0142	free@home window sensor, wireless

SVHC: Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate, CAS: 29420-49-3

Product Number	Product Name
2CKA006200A0154	System Access Point 2.0
2CKA006200A0155	System Access Point 2.0
2CKA006220A0849	Weatherstation Multi Set
2CKA006220A0850	Weatherstation Multi Set

Ende Anhang I