

S200 MCB 6KA. 0.5 TO 63A, 1 TO 4 POLES, B OR C OR D OR K OR Z CURVE

Product Environmental Profile

Environmental Product Declaration





Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations"

ORGANIZATION		CONTACT INFORMATION	
ABB STOTZ-KONTAKT GmbH		Sanjay K Gupta: sanjayk.gupta@in.abb.com; Rupert De	he: rupert.dehe@de.abb.c
ADDRESS OF THE ASSEM	1BLY SITE	WEBSITE	
Eppelheimer Str. 82, 691	Eppelheimer Str. 82, 69123 HEIDELBERG www.abb.de/stotz-kontakt		
STATUS	SECURITY LEVEL	REGISTRATION NUMBER	PAGE
Approved Public		PEP ecopassport® ABBG-00064-V01.01-EN	1/14
© Copyright 2022 ABB. A	ıll rights reserved.		



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.

This study is related to ABB STOTZ-KONTAKT GmbH, Heidelberg plant that produces MCBs in different ranges. The plant already has the following certifications besides product standard certifications:

DIN EN ISO 9001, DIN EN ISO 14001, DIN ISO 45001, DIN EN ISO 50001 and ISO/TS 22163

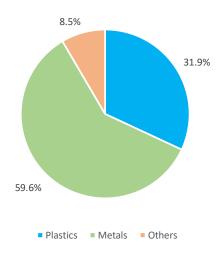


General Information

Reference product	S201-C16 Miniature Circuit Breaker - 1P - C - 16 A
Description of the product	S201-C16 Miniature Circuit Breaker (MCB), 1 Pole, 16A, C Curve, 6kA All MCBs in the product range S200 comply with IEC/EN 60898-1, IEC/EN 60947-2, UL1077 allowing their use in residential, commercial, and industrial applications.
Functional unit	Protect during 20 years the installation against overloads and short circuits in circuit with assigned voltage 230/400 Volt and current 16A. This protection is ensured in accordance with the following parameters; - Number of pole: 1 - Rated Breaking capacity: 6kA - Tripping Curve: C
Other products covered	It is a "Product family declaration" which covers Miniature Circuit Breaker (MCB) S200 Product Series with Standard Product Characteristics Rated current In; 0.5A to 63A, Rated Voltage U; 230/400 V Pole combination Np; 1 to 4 Pole included 1Pole+ N and 3Pole + N, Rated Breaking Capacity: Icn; 6kA Tripping Curve Cd: B,C,D,K & Z

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	PAGE
Approved	Public	PEP ecopassport® ABBG-00064-V01.01-EN	2/14
© Copyright 2022 ABB. All rights rese	rved.		

Constituent materials



Plastics			Metals			Others			
Name	Weight W	eight %	Name	Weight We	eight %	Name	Weight g	Weight g	
PA6	35.33	27.7	Steel	64.51	50.6	Corrugated board	10.68	8.4	
PA66	2.88	2.3	Copper	8.67	6.8	Miscellaneous Other Materia	0.12	0.1	
РОМ	1.71	1.3	Aluminium	2.82	2.2				
Miscellaneous Plastics	s 0.82	0.6	Miscellaneou Metals	0.30	0.0				

These products comply with actual requirements of EU Directives 2011/65/EU of 8 June 2011 (ROHS) materials and do not contain or or only contain in the authorised proportionslead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls -PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive.

Manufacturing, distribution, installation, use, and end-of-life (EOL) stages are taken into account in the environmental impact analysis of this study.

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	PAGE
Approved	Public	PEP ecopassport® ABBG-00064-V01.01-EN	3/14
© Copyright 2022 ABB. All rights reserv	ved.		



Additional Environmental Information

Manufacturing	Manufacturing site certified with DIN EN ISO 14001. Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 99% (in % of packaging weight).
Distribution	Is modelled by considering the average distances from manufacturing site to distance at delivery point.
Installation	Does not required any special process. Packaging waste generated as output in installation phase.
Use	MCB is Maintenance free and does not need any special process while in use.
End of life	The recyclability rate of the Reference Product is estimated at 95%. The calculation of this weight is based on the method IEC/TR 62635,
Benefits and loads beyond the system boundaries	Does not consider since product is beyond control of organization after EOL

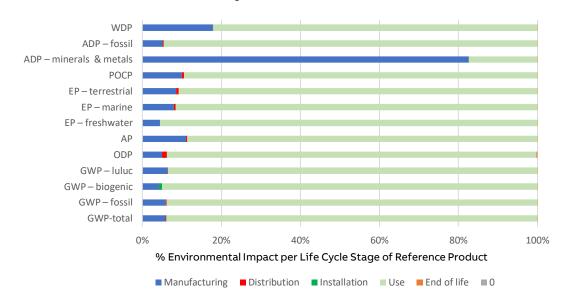


Environmental impacts

Reference lifetime	20 Years
Product category	Circuit Breakers
Installation elements	End of life of MCB packaging considered in Installation phase.
Use scenario	At loading rate 50% of rated current & use time rate 30% of reference lifetime total energy consumption is 32.9 kWh
Geographical representativeness	Global
Technological representativeness	Technological perpose of MCB to protect the domestic and industrial installation from overload & short circuit
Software and database used	SimaPro 9.4 and Data base Ecoinvent 3.8
Energy model used	
Manufacturing	Ecoinvent Electricy Model System Process, Germany
Installation	Ecoinvent Electricy Model System Process, Global
Use	Ecoinvent Electricy Model System Process, Global
End of life	Ecoinvent Electricy Model System Process, global

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	PAGE
Approved	Public	PEP ecopassport® ABBG-00064-V01.01-EN	4/14
© Copyright 2022 ABB. All rights reser	ved.		

Common base of mandatory indicators



Environmental impact indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
GWP-total	kg CO₂ eq.	2.103E+01	1.222E+00	4.954E-02	7.628E-03	1.974E+01	1.284E-02
GWP-fossil	kg CO₂ eq.	2.016E+01	1.185E+00	4.951E-02	1.032E-03	1.891E+01	1.281E-02
GWP-biogenic	kg CO₂ eq.	8.377E-01	3.473E-02	2.188E-05	6.596E-03	7.963E-01	1.998E-05
GWP-luluc GWP-fossil = Globa GWP-biogenic = Glo GWP-luluc = Global	bal Warming Pot	ential biogen	ic	6.964E-06	4.620E-07	3.042E-02	5.820E-06
OPD	kg CFC-11 eq.	9.240E-07	4.600E-08	1.135E-08	2.383E-10	8.633E-07	3.107E-09
OPD = Depletion po	tential of the str	atospheric oz	one layer				
AP = Acidification p	H+ eq. ootential, Accumu	8.491E-02 lated Exceeda	9.408E-03 ince	2.381E-04	3.885E-06	7.521E-02	4.872E-05
EP-freshwater	kg P eq.	2.090E-02	9.384E-04	1.394E-06	8.974E-08	1.996E-02	1.254E-06
EP-marine	kg N eq.	1.693E-02	1.347E-03	8.077E-05	5.873E-06	1.549E-02	1.226E-05
EP-terrestrial	mol N eq.	1.443E-01	1.238E-02	8.842E-04	9.213E-06	1.309E-01	1.337E-04
EP-freshwater = Eu EP-marine = Eutrop EP-terrestrial = Eut	hication potentia	l, fraction of	nutrients reachi	ng marine end co		ent	
				2.4175.04	4.0255.00		4.761E.0E
POCP	kg NMVOC eq.	3.982E-02	3.960E-03	2.417E-04	4.935E-06	3.556E-02	4.761E-05
	eq.			2.417E-04	4.935E-06	3.556E-02	4.761E-U5
POCP = Formation ADP-minerals &	eq.			3.849E-08	2.524E-09	3.556E-02 3.328E-05	
POCP = Formation ADP-minerals & metals	eq. potential of tropo	o-spheric ozoi	ne				3.167E-08
POCP = Formation ADP-minerals & metals ADP-fossil ADP-minerals & me	eq. potential of tropo kg Sb eq. MJ tals = Abiotic dep	1.915E-04 3.024E+02	1.581E-04 1.555E+01 ial for non-fossil	3.849E-08 7.170E-01	2.524E-09	3.328E-05	3.167E-08
POCP = Formation ADP-minerals & metals ADP-fossil ADP-minerals & metals ADP-fossil = Abiotic	eq. potential of tropo kg Sb eq. MJ tals = Abiotic dep	1.915E-04 3.024E+02	1.581E-04 1.555E+01 ial for non-fossil	3.849E-08 7.170E-01	2.524E-09	3.328E-05	3.167E-08 2.146E-01
POCP = Formation ADP-minerals & metals ADP-fossil ADP-minerals & metals ADP-fossil = Abiotic WDP	eq. potential of tropo kg Sb eq. MJ tals = Abiotic dep c deple-tion for for	1.915E-04 3.024E+02 eletion potent	1.581E-04 1.555E+01 ial for non-fossils potential	3.849E-08 7.170E-01 resources	2.524E-09 1.653E-02	3.328E-05 2.859E+02	3.167E-08 2.146E-01
POCP = Formation ADP-minerals & metals ADP-fossil ADP-minerals & metals ADP-fossil = Abiotic WDP WDP = Water Deprin	eq. potential of tropo kg Sb eq. MJ tals = Abiotic dep c deple-tion for for m³ e depr. vation potential	1.915E-04 3.024E+02 eletion potent	1.581E-04 1.555E+01 ial for non-fossils potential	3.849E-08 7.170E-01 resources	2.524E-09 1.653E-02 9.393E-05	3.328E-05 2.859E+02	3.167E-08 2.146E-01

Common base of mandatory indicators

Inventory flows indicator - Resource use indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use End of life
PERE	MJ	3.957E+01	2.099E+00	3.807E-03	2.272E-04	3.747E+01 2.564E-03
PERM	MJ	1.586E-01	1.586E-01	0.000E+00	0.000E+00	0.000E+00 0.000E+00
PERT	MJ	3.973E+01	2.258E+00	3.807E-03	2.272E-04	3.747E+01 2.564E-03
PENRE	MJ	3.008E+02	1.404E+01	7.170E-01	1.654E-02	2.858E+02 2.146E-01
PENRM	MJ	1.508E+00	1.508E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
PENRT	MJ	3.023E+02	1.555E+01	7.170E-01	1.654E-02	2.858E+02 2.146E-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

 ${\tt PENRE = Use\ of\ non-renewable\ primary\ energy\ excluding\ non-renewable\ primary\ energy\ resources\ used\ as\ raw\ materials}$

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

PENRT = Total Use of non-renewable primary energy re-sources)

Inventory flows indicator – Indicators describing the use of secondary materials, water, and energy re-sources

Indicator	Unit	Total	Manu-	Distri-	Instal-	Use End	
	Offic		facturing	bution	lation	of life	
SM	kg	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	
RSF	МЈ	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	
NRSF	МЈ	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	
FW	m³	2.272E-01	1.913E-02	3.940E-05	2.877E-06	2.080E-01 5.631E-05	

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	Instal- lation	Use End of life
Hazardous waste disposed	kg	4.291E-04	2.766E-04	1.867E-06	3.933E-08	1.501E-04 4.988E-07
Non- hazardous waste disposed	kg	1.489E+00	2.097E-01	1.804E-02	4.248E-03	1.112E+00 1.448E-01
Radioactive waste disposed	kg	1.207E-03	4.136E-05	4.995E-06	1.077E-07	1.159E-03 1.399E-06

Common base of mandatory indicators

Inventory flows indicator - Output flow indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use End of life
Components for reuse	kg	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
Materials for recycling	kg	1.789E-02	9.998E-03	0.000E+00	7.893E-03	0.000E+00 0.000E+00
Materials for energy recovery	kg	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
Exported energy	МЈ	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00

Inventory flow indicator – other indicators

Indicator	Unit	Total
Biogenic carbon content of the product	kg of C	0.000E+00
Biogenic carbon content of the associated packaging	kg of C	5.399E-03

Optional indicators

Environmental indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Total use of primary energy during the life cycle	МЈ	3.420E+02	1.780E+01	7.208E-01	1.676E-02	3.232E+02	2.172E-01
Emissions of fine particles	inciden ce of diseas es	3.201E-07	7.038E-08	1.741E-09	1.171E-10	2.463E-07	1.532E-09
lonizing radiation, human health	kBq U235 eq.	4.477E+00	1.164E-01	3.254E-03	7.984E-05	4.357E+00	1.009E-03
Ecotoxicity (fresh water)	CTUe	2.338E+02	5.638E+01	4.411E-01	2.618E-02	1.768E+02	1.758E-01
Human toxicity, car- cinogenic effects	CTUh	7.522E-09	3.516E-09	7.640E-12	3.878E-13	3.993E-09	4.901E-12
Human toxicity, non- carcinogenic effects	CTUh	2.309E-07	8.302E-08	6.196E-10	2.305E-11	1.471E-07	1.675E-10
Impact related to land use/soil quality	kg	1.182E+01	1.437E+00	1.511E-01	5.283E-03	1.015E+01	7.724E-02

Other indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
No Other indicators used							

Extrapolation of Coefficients

Extrapolation rules are established according to EN 50693. Results of LCA performed for a reference product extrapolated to other products, these products are belonged to a same homogeneous product family as the reference product. The group of products have the following same characteristics:

- -Same main function, Same product standards,
- -Similar manufacturing technology: same type of materials and manufacturing processes Coefficients factors has been extrapolated with division of environment indicators value of homogeneous product by reference product environment indicator value.

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

Note: If the coefficient is "1", the impacts of the phase of the life cycle are assimilated to the Reference product, meaning that the impacts are unchanged in comparison to the Reference product.

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	PAGE				
Approved	Public	PEP ecopassport® ABBG-00064-V01.01-EN	8/14				
© Copyright 2022 ABB. All rights reserved.							

Manufacturing phase: To calculate environmental impact of covered product nominal value of reference product environment category to be multiplied with corresponding rating Impact category's coefficient, then value to be multiplied by the number of poles.

i.e. y=ax*n

Where a= Coefficient of corresponding rating impact category

- y= Homogeneous product environmental category
- x=Nominal value of reference product environmental category
- n=Number of poles

Manufacturing Phase	e Coefficient	Rated Current							
Impact category		0.5A, 1A, 1.6A, 2A, 3A,4A & 5A	6A, 8A & 10A	13A, 15A & 16A	20A, 25A, 30A, 32A & 40A	50A, 60A 8 63A			
GWP-total		0.989	1.005	1.000	1.043	1.308			
GWP-fossil		0.989	1.005	1.000	1.042	1.312			
GWP-biogenic		0.991	1.001	1.000	1.054	1.156			
GWP-luluc		0.967	1.009	1.000	1.130	1.430			
OPD		0.975	1.005	1.000	1.132	1.728			
AP		0.933	1.002	1.000	1.584	2.293			
EP-freshwater		0.958	1.002	1.000	1.358	2.402			
EP-marine		0.977	1.004	1.000	1.239	2.045			
EP-terrestrial		0.969	1.004	1.000	1.203	2.306			
POCP		0.973	1.003	1.000	1.170	1.983			
ADP-minerals & metals		0.903	0.997	1.000	2.053	5.639			
ADP-fossil		0.986	1.005	1.000	1.077	1.353			
WDP		0.952	0.999	1.000	1.661	2.052			
Inventory flows indicator –	Resource use indi	cators							
PERE		0.944	1.003	1.000	1.452	1.889			
PERM		1.067	1.000	1.000	1.000	1.000			
PERT		0.953	1.003	1.000	1.420	1.827			
STATUS	SECURITY LEVEL		REGISTRATION NUM	IBER		PAGE			
Approved	Public		PEP ecopassport®	ABBG-00064-V01.0	1-EN	9/14			

Impact category	0.5A, 1A, 1.6A, 2A, 3A,4A & 5A	6A, 8A & 10A	13A, 15A & 16A	20A, 25A, 30A, 32A & 40A	50A, 60A & 63A
PENRE	0.984	1.006	1.000	1.084	1.393
PENRM	1.010	0.997	1.000	1.010	0.982
PENRT	0.986	1.005	1.000	1.077	1.353
Inventory flows indicator – Indicators describ	ing the use of s	econdary mater	ials, water, and	d energy re-sou	rces
FW	0.958	1.000	1.000	1.550	1.921
Inventory flows indicator – Waste cate	gory indicato	rs			
Hazardous waste disposed	0.938	0.999	1.000	1.585	2.297
Non- hazardous waste disposed	0.938	1.002	1.000	1.260	1.547
Radioactive waste disposed	0.965	1.007	1.000	1.171	1.642
Inventory flows indicator – Output flow	indicators				
Materials for recycling	1.009	0.997	1.000	0.999	0.972
Inventory flows indicator – Other indica	ators				
Biogenic carbon content of the associated packaging	1.000	1.000	1.000	1.000	1.000

Note:

In above table coefficients are excluded when impact indicators value is zero for reference products. And for Optional Environmental indicators.

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	PAGE
Approved	Public	PEP ecopassport® ABBG-00064-V01.01-EN	10/14
© Copyright 2022 ABB. All rig	ghts reserved.		

Distribution, Installation & EOL Phase: To calculate the environmental impact of covered product nominal value of reference product environment category to be multiplied with corresponding rating's coefficient, and then value to be multiplied by the number of poles. i.e. y=ax*n Where a= Coefficient of corresponding rating

y= Homogeneous product environmental category

x=Nominal value of reference product environmental category, and n=Number of poles

Coefficient of Distribution, Installation & EOL Phase

Rated Current	0.5A, 1A, 1.6A, 2A,3A,4A & 5A	6A, 8A & 10A	13A,15A & 16A	20A, 25A, 30A, 32A & 40A	40A,60A & 63A
Distribution Phase	1.001	0.999	1.000	1.029	1.073
Installation Phase	1.000	1.000	1.000	1.000	1.000
EOL Phase	1.001	0.999	1.000	1029	1.073

Use phase: To calculate the environmental impact of covered product nominal value of reference product environment category to be multiplied with corresponding rating w.r.t tripping curve's coefficient, and then value to be multiplied by the number of poles. i.e. y=ax*n

Where a= Coefficient of corresponding rating w.r.t tripping curve

y= Homogeneous product environmental category

x=Nominal value of reference product environmental category. and n=Number of poles

Use Pha	se Coeff	icient			Rated	Current					
Tripping curve	0.5A	1A	1.6A	2A	3A	4A	5A	6A	8A	10A	13A
В	0.560	0.560	0.640	0.720	0.520	0.720	-	0.800	0.600	0.840	0.920
С	0.560	0.560	0.640	0.720	0.520	0.720	-	0.800	0.600	0.840	0.920
D	0.560	0.560	0.640	0.720	0.520	0.720	-	0.800	0.600	0.840	0.920
K	0.440	0.500	0.600	0.660	0.480	0.680	0.520	0.760	0.600	0.560	0.560
Z	0.960	0.920	1.120	1.000	0.960	0.960	-	1.280	0.800	1.080	-
Use Phas	e Coeffi	cient		R	ated Cu	rrent					
Tripping curve	15A	16A	20A	25A	30A	32A	40A	50A	60A	63A	
В	1.000	1.000	1.000	1.280	-	1.480	1.920	1.300	-	1.920	
С	1.000	1.000	1.000	1.280	-	1.480	1.920	1.300	-	1.920	
D	1.000	1.000	1.000	1.280	-	1.480	1.920	1.300	-	1.920	
К	0.693	0.800	1.080	1.160	1.260	1.440	1.800	1.240	1.440	1.760	
Z	-	1.120	0.960	1.320	-	1.440	1.640	1.640	-	2.080	
STATUS			SECURITY LE	VEL		REGISTRATIO	ON NUMBER				PAGE
Approved			Public			DED aconses	port® ABBG-	00064 V01 0	. FN		11/14

Environmental Impact Indicator Glossary

Impact indicators

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

Resource use indicators

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

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	PAGE
Approved	Public	PEP ecopassport® ABBG-00064-V01.01-EN	12/14
© Copyright 2022 ABB. All rights rese	rved.		

References

ratus	SECURITY LEVEL	REGISTRATION NUMBER	PAGE
			•
		d for the electrotechnical industry	lucts and systems
	elines for end-of-life informatio cal and electronic equipment	on provided by manufacturers and recyclers and	for recyclability rate
ISO 14025 - Environ	mental management — Life cyo	cle assessment — Principles and framework	
ISO14040 Environm	nental management — Life cycl	e assessment — Principles and framework	
ISO 14044 Environn	nental management — Life cycl	le assessment — Requirements and guidelines	
ISO 14067:2018 Gre	enhouse gases — Carbon footp	orint of products — requirements and guidelines	s for quantification
IEC 60947-2 - Low-\	oltage switchgear and control	gear - Part 2: Circuit-breakers	
IEC 60947-1 - Low-v	oltage switchgear and control	gear - Part 1: General rules	

Registration number:

Drafting Rules: PCR-ed4-EN-2021 09 06

ABBG-00064-V01.01-EN

Supplemented by: PSR-0005-ed2-EN-2016 03 29

Verifier accreditation number: Information and reference documents:

VH42

www.pep-ecopassport.org

Date of issue: 12.2022

Validity period: 5 years

Independent verification of the declaration and data, in compliance with ISO 14025: 2010

Internal O 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

The elements of the present PEP cannot be compared with elements from another program



Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations"