

DS202 CR DIFFERENTIAL CIRCUIT BREAKER

Product Environmental Profile

Environmental Product Declaration



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

ORGANIZATION		CONTACT INFORMATION			
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STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00065-V01.01-EN	1	en	1/10



ABB Purpose & Embedding Sustainability

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

ABB is also engaged with the Ellen MacArthur Foundation.



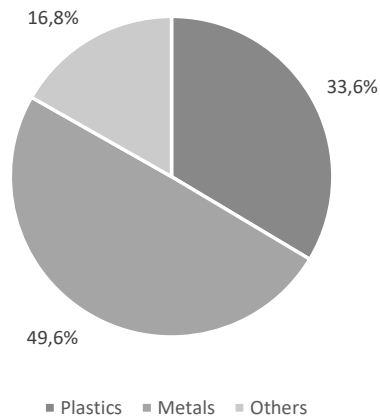
General Information

Reference product	DS202CR M C16 A30 – 2CSR772140R1164
Description of the product	DS202 CR series combines overcurrent (short circuit and overload) and earth fault protection in 2 protected poles: it is particularly suitable in low voltage systems connected to the 230 V two-phase distribution network, such as naval applications, where it is particularly appreciated for its small size in the final distribution systems.
Functional unit	Protect during 20 years the installation against overloads and short-circuits and people and premises at risk of fire or explosion against insulation defects in circuit with assigned voltage 230V and rated current 16 A.
Other products covered	DS202 CR homogeneous family: From 4,5kA up to 10kA breaking capacity. B an C char from 6 up to 40 A 10, 30 & 300 mA type AC, A & APR for 6 & 10 kA 30 & 300 mA type AC & A for 4,5kA

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00065-V01.01-EN	1	en	2/10



Constituent materials



Total weight of Reference product

224,48 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-%
PA-GF	26,3	FE	16,5	COPPER & PTEF	0,2
PBT/GF	5,3	COPPER	14,6	CELLULOSE	<0,01
SILICONE	0,4	STEEL	13,0	OTHERS	3,3
PA+PE	0,2	STAINLESS STEEL	4,1	CARDBOARD	12,2
OTHER PLASTICS	1,3	BRASS	1,5	PAPER	1,0

Total weight of the reference product and its packaging: 257,60 g (12,2% box and 1,04% paper)

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00065-V01.01-EN	1	en	3/10



Additional Environmental Information

Manufacturing	Includes the environmental impacts associated with extraction and processing of the raw materials used to produce the product and its packaging, transport to the manufacturing site and assembly.
Distribution	Includes the transportation in its packaging from the manufacturer's last logistic platform to the distributor.
Installation	Installation stage includes the installation of the products made manually and packaging.
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. Reference product consumption over 20 years is 47,95 kWh
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 1000 km transport by lorry is used for the transportation.
Software and database used	Simapro 9.3.0.3 and Ecoinvent v3.8
Standards	"PCR Product Category Rules for Electrical, Electronic and HVAC-R Products" (PCR-ed3-EN-2015 04 02) and - "PSR Specific Rules for Electrical Switchgear and control gear Solutions"(PSR-0005-ed2-EN—2016 03 29)



Environmental impacts

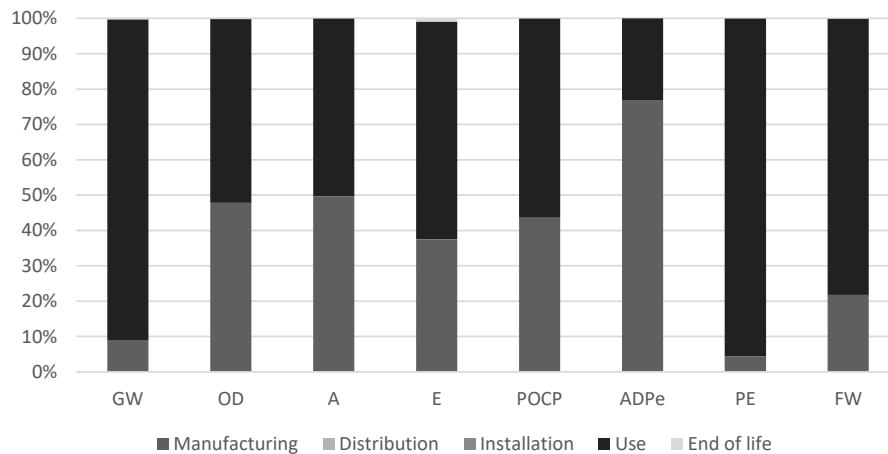
Reference lifetime	20 years
Product category	Differential Circuit Breaker
Installation elements	Installation carried out manually
Use scenario	Italy and Belgium
Geographical representativeness	Europe
Technological representativeness	Materials and processes data are specific for the production of DS202CR M C16 A30 – 2CSR772140R1164 and its family
Energy model used	
Manufacturing	A specific mix of ABB's trading company has been used (Confidential)
Installation	Manually done. Europe
Use	Electricity, low voltage [IT] market for Cut-off, S Electricity, low voltage [BE] market for Cut-off, S
End of life	Europe

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00065-V01.01-EN	1	en	4/10

Compulsory Indicators

Impact indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Global warming (GW)	kg CO ₂ eq.	1,40E+01	1,26E+00	5,04E-04	5,97E-03	1,27E+01	4,04E-02
Ozone depletion (OD)	kg CFC- 11 eq.	2,19E-06	1,05E-06	8,57E-11	6,16E-10	1,14E-06	4,17E-09
Acidification of soil and water (A)	kg SO ₂ eq.	5,64E-02	2,80E-02	2,21E-06	7,21E-06	2,83E-02	4,88E-05
Eutrophication (E)	kg (PO ₄) ³ eq.	2,06E-02	7,69E-03	5,72E-07	2,66E-05	1,27E-02	1,80E-04
Photochemical ozone creation (POCP)	kg C ₂ H ₄ eq.	2,71E-03	1,18E-03	1,89E-07	3,44E-07	1,52E-03	2,33E-06
Depletion of abiotic resources – elements (ADPe)	kg Sb eq.	7,97E-04	6,12E-04	7,73E-09	1,14E-08	1,85E-04	7,70E-08
Resource use indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Total use of primary energy (PE)	MJ	4,86E+02	2,17E+01	7,83E-03	2,87E-02	4,64E+02	1,94E-01
Net freshwater use (FW)	m ³	5,89E+00	1,28E+00	3,71E-05	7,90E-04	4,60E+00	5,35E-03

% Environmental Impact per Life Cycle Stage of Reference Product



STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00065-V01.01-EN	1	en	5/10

Optional Indicators

Resource use indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	6,32E+01	3,41E+00	2,10E-04	1,13E-03	5,98E+01	7,66E-03
Use of renewable primary energy resources as raw materials	MJ	5,76E-01	5,76E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renewable primary energy resources	MJ	6,38E+01	3,99E+00	2,10E-04	1,13E-03	5,98E+01	7,66E-03
Use of non-renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	4,20E+02	1,54E+01	7,62E-03	2,76E-02	4,04E+02	1,87E-01
Use of non-renewable primary energy resources as raw materials	MJ	2,35E+00	2,35E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of non-renewable primary energy resources	MJ	4,22E+02	1,77E+01	7,62E-03	2,76E-02	4,04E+02	1,87E-01
Use of secondary materials	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non-renewable secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00065-V01.01-EN	1	en	6/10

Optional Indicators

Waste category indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Hazardous waste disposed	kg	4,90E-04	5,35E-05	1,44E-07	9,69E-08	4,36E-04	6,56E-07
Non-hazardous waste disposed	kg	1,31E+00	3,50E-01	2,42E-04	5,36E-03	9,20E-01	3,63E-02
Radioactive waste disposed	kg	3,58E-03	4,39E-05	5,04E-08	1,62E-07	3,53E-03	1,10E-06
Output flow indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Components for reuse	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	2,25E-01	1,93E-02	0,00E+00	2,65E-02	0,00E+00	1,80E-01
Materials for energy recovery	kg	1,80E-02	0,00E+00	0,00E+00	2,32E-03	0,00E+00	1,57E-02
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00065-V01.01-EN	1	en	7/10

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

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

Product Current (A)	Manufacturing	Distribution	Installation	Use	End of life
6 (A)	1,00	1,00	1,00	0,62	1,00
10 (A)	1,00	1,00	1,00	0,62	1,00
13 (A)	1,00	1,00	1,00	1,15	1,00
16 (A)	1,00	1,00	1,00	1,00	1,00
20 (A)	1,00	1,00	1,00	1,26	1,00
25 (A)	1,00	1,00	1,00	1,45	1,00
32 (A)	1,00	1,00	1,00	2,05	1,00
40 (A)	1,05	1,05	1,00	2,74	1,05

Product description	Product code
DS202CR L C6 AC30	2CSR742040R1064
DS202CR L C10 AC30	2CSR742040R1104
DS202CR L C13 AC30	2CSR742040R1134
DS202CR L C16 AC30	2CSR742040R1164
DS202CR L C20 AC30	2CSR742040R1204
DS202CR L C25 AC30	2CSR742040R1254
DS202CR L C32 AC30	2CSR742040R1324
DS202CR L C40 AC30	2CSR742040R1404
DS202CR L C6 A30	2CSR742140R1064
DS202CR L C10 A30	2CSR742140R1104
DS202CR L C13 A30	2CSR742140R1134
DS202CR L C16 A30	2CSR742140R1164
DS202CR L C20 A30	2CSR742140R1204
DS202CR L C25 A30	2CSR742140R1254
DS202CR L C32 A30	2CSR742140R1324
DS202CR L C40 A30	2CSR742140R1404
DS202CR C6 AC30	2CSR752040R1064
DS202CR C10 AC30	2CSR752040R1104
DS202CR C13 AC30	2CSR752040R1134
DS202CR C16 AC30	2CSR752040R1164
DS202CR C20 AC30	2CSR752040R1204
DS202CR C25 AC30	2CSR752040R1254
DS202CR C32 AC30	2CSR752040R1324
DS202CR C40 AC30	2CSR752040R1404
DS202CR C6 AC300	2CSR752040R3064
DS202CR C10 AC300	2CSR752040R3104
DS202CR C13 AC300	2CSR752040R3134
DS202CR C16 AC300	2CSR752040R3164
DS202CR C20 AC300	2CSR752040R3204
DS202CR C25 AC300	2CSR752040R3254
DS202CR C32 AC300	2CSR752040R3324
DS202CR C40 AC300	2CSR752040R3404

Product description	Product code
DS202CR C6 A30	2CSR752140R1064
DS202CR B6 A30	2CSR752140R1065
DS202CR C10 A30	2CSR752140R1104
DS202CR B10 A30	2CSR752140R1105
DS202CR C13 A30	2CSR752140R1134
DS202CR B13 A30	2CSR752140R1135
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DS202CR B16 A30	2CSR752140R1165
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DS202CR B20 A30	2CSR752140R1205
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DS202CR B25 A30	2CSR752140R1255
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DS202CR C25 A300	2CSR752140R3254
DS202CR B25 A300	2CSR752140R3255
DS202CR C32 A300	2CSR752140R3324
DS202CR B32 A300	2CSR752140R3325
DS202CR C40 A300	2CSR752140R3404
DS202CR B40 A300	2CSR752140R3405

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00065-V01.01-EN	1	en	6/10

Product description	Product code
DS202CR C6 APR30 240V	2CSR752496R1064
DS202CR C10 APR30 240V	2CSR752496R1104
DS202CR C16 APR30 240V	2CSR752496R1164
DS202CR C20 APR30 240V	2CSR752496R1204
DS202CR C25 APR30 240V	2CSR752496R1254
DS202CR C32 APR30 240V	2CSR752496R1324
DS202CR C40 APR30 240V	2CSR752496R1404
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DS202CR M C10 AC30	2CSR772040R1104
DS202CR M C13 AC30	2CSR772040R1134
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DS202CR M C32 AC30	2CSR772040R1324
DS202CR M C40 AC30	2CSR772040R1404
DS202CR M C6 AC300	2CSR772040R3064
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DS202CR M C13 AC300	2CSR772040R3134
DS202CR M C16 AC300	2CSR772040R3164
DS202CR M C20 AC300	2CSR772040R3204
DS202CR M C25 AC300	2CSR772040R3254
DS202CR M C32 AC300	2CSR772040R3324
DS202CR M C40 AC300	2CSR772040R3404
DS202CR M B10 A10	2CSR772140R0105
DS202CR M C13 A10	2CSR772140R0134
DS202CR M B13 A10	2CSR772140R0135
DS202CR M C16 A10	2CSR772140R0164
DS202CR M B16 A10	2CSR772140R0165
DS202CR M Bk6 A30	2CSR772140R1062
DS202CR M Ck6 A30	2CSR772140R1063
DS202CR M C6 A30	2CSR772140R1064
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DS202CR M Bk10 A30	2CSR772140R1102
DS202CR M Ck10 A30	2CSR772140R1103
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DS202CR M Ck13 A30	2CSR772140R1133
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DS202CR M B13 A30	2CSR772140R1135
DS202CR M Bk16 A30	2CSR772140R1162
DS202CR M Ck16 A30	2CSR772140R1163
DS202CR M C16 A30	2CSR772140R1164
DS202CR M B16 A30	2CSR772140R1165
DS202CR M Bk20 A30	2CSR772140R1202
DS202CR M Ck20 A30	2CSR772140R1203
DS202CR M C20 A30	2CSR772140R1204
DS202CR M B20 A30	2CSR772140R1205
DS202CR M Bk25 A30	2CSR772140R1252
DS202CR M Ck25 A30	2CSR772140R1253

Product description	Product code
DS202CR M C25 A30	2CSR772140R1254
DS202CR M B25 A30	2CSR772140R1255
DS202CR M Bk32 A30	2CSR772140R1322
DS202CR M Ck32 A30	2CSR772140R1323
DS202CR M C32 A30	2CSR772140R1324
DS202CR M B32 A30	2CSR772140R1325
DS202CR M C40 A30	2CSR772140R1404
DS202CR M B40 A30	2CSR772140R1405
DS202CR M C6 A300	2CSR772140R3064
DS202CR M B6 A300	2CSR772140R3065
DS202CR M C10 A300	2CSR772140R3104
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DS202CR M B16 A300	2CSR772140R3165
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DS202CR M C40 A300	2CSR772140R3404
DS202CR M B40 A300	2CSR772140R3405
DS202CR M C6 A30	2CSR772140U1064
DS202CR M Bk10 A30 U	2CSR772140U1102
DS202CR M Ck10 A30 U	2CSR772140U1103
DS202CR M C10 A30 U	2CSR772140U1104
DS202CR M B10 A30 U	2CSR772140U1105
DS202CR M B13 A10 U	2CSR672191U0135
DS202CR M Bk16 A30 U	2CSR772140U1162
DS202CR M Ck16 A30 U	2CSR772140U1163
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DS202CR M B16 A30 U	2CSR772140U1165
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DSH202CR M Ck16 A30 U	2CSR772156U1163

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00065-V01.01-EN	1	en	6/10


Product description	Product code
DS202CR M C6 A30 50/60	2CSR772198R1064
DS202CR M B6 A30 50/60	2CSR772198R1065
DS202CR M C10 A30 50/60	2CSR772198R1104
DS202CR M B10 A30 50/60	2CSR772198R1105
DS202CR M C13 A30 50/60	2CSR772198R1134
DS202CR M B13 A30 50/60	2CSR772198R1135
DS202CR M C15 A30 50/60	2CSR772198R1154
DS202CR M C16 A30 50/60	2CSR772198R1164
DS202CR M B16 A30 50/60	2CSR772198R1165
DS202CR M C20 A30 50/60	2CSR772198R1204
DS202CR M B20 A30 50/60	2CSR772198R1205
DS202CR M C25 A30 50/60	2CSR772198R1254
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DS202CR M C32 A30 50/60	2CSR772198R1324
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DS202CR M C40 A30 50/60	2CSR772198R1404
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DS202CR M C10 A30 110V	2CSR772199R1104
DS202CR M C13 A30 110V	2CSR772199R1134
DS202CR M C15 A30 110V	2CSR772199R1154
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DS202CR M C32 A30 110V	2CSR772199R1324
DS202CR M C40 A30 110V	2CSR772199R1404
DS202CR M C6 A30 110V	2CSR772199U1064
DS202CR M C10 A30 110V	2CSR772199U1104
DS202CR M C13 A30 110V	2CSR772199U1134
DS202CR M C16 A30 110V	2CSR772199U1164

Product description	Product code
DS202CR M C6 APR30	2CSR772440R1064
DS202CR M B6 APR30	2CSR772440R1065
DS202CR M C10 APR30	2CSR772440R1104
DS202CR M B10 APR30	2CSR772440R1105
DS202CR M C13 APR30	2CSR772440R1134
DS202CR M B13 APR30	2CSR772440R1135
DS202CR M C16 APR30	2CSR772440R1164
DS202CR M B16 APR30	2CSR772440R1165
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DS202CR M B20 APR30	2CSR772440R1205
DS202CR M C25 APR30	2CSR772440R1254
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DS202CR M C40 APR30	2CSR772440R1404
DS202CR M B40 APR30	2CSR772440R1405
DS202CR M B6 APR300	2CSR772440R3065
DS202CR M B10 APR300	2CSR772440R3105
DS202CR M B13 APR300	2CSR772440R3135
DS202CR M B16 APR300	2CSR772440R3165
DS202CR M B20 APR300	2CSR772440R3205
DS202CR M B25 APR300	2CSR772440R3255
DS202CR M B32 APR300	2CSR772440R3325
DS202CR M B40 APR300	2CSR772440R3405

Product description	Product code
Dpca100c10/010	2CDB333201R0104
DPCA100B10/010	2CDB333201R0105
Dpca100c16/010	2CDB333201R0164
DPCA100B16/010	2CDB333201R0165
Dpca100c06/030	2CDB333201R1064
DPCA100B06/030	2CDB333201R1065
Dpca100c10/030	2CDB333201R1104
DPCA100B10/030	2CDB333201R1105
Dpca100c16/030	2CDB333201R1164
DPCA100B16/030	2CDB333201R1165
Dpca100c20/030	2CDB333201R1204
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Product description	Product code
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DPCA100C25/300	2CDB333201R3254
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DPCA100C32/300	2CDB333201R3324
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DPCA100C40/300	2CDB333201R3404
DPCA100B40/300	2CDB333201R3405

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
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Verifier accreditation number: VH32	Information and reference documents: www.pep-ecopassport.org	
Date of issue: 21/11/2022	Validity period:	5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2010		
Internal <input type="radio"/>		External <input checked="" type="radio"/>
<p>The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)</p> <p>PEP are compliant with XP C08-100-1: 2016 The elements of the present PEP cannot be compared with elements from another program</p> <p>Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations"</p>		

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
Approved	Public	ABBG-00065-V01.01-EN	1	en	9/10

Environmental Impact Indicator Glossary

Impact indicators	Description	Unit
Global warming (GW)	Indicator of potential global warming caused by emissions to air contributing to the greenhouse effect. Includes fossil and biogenic	kg CO ₂ eq.
Ozone depletion (OD)	Indicator of emissions to air that contribute to the destruction of the ozone layer	kg CFC-11 eq.
Acidification of soil and water (A)	Indicator of the potential acidification of soils and water caused by the release of certain gases to the atmosphere	kg SO ₂ eq.
Eutrophication (E)	Indicator of the contribution to eutrophication of water by the enrichment of the aquatic ecosystem with nutritional elements, e.g. industrial or domestic effluents, agriculture, etc.	kg (PO ₄) ³ eq.
Photochemical ozone creation (POCP)	Indicator of emissions of gases that affect the creation of photochemical ozone in the lower atmosphere (smog) because of the rays of the sun.	kg C ₂ H ₄ eq.
Depletion of abiotic resources – elements (ADPe)	Indicator of the depletion of natural non-fossil resources	kg Sb eq.

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

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
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