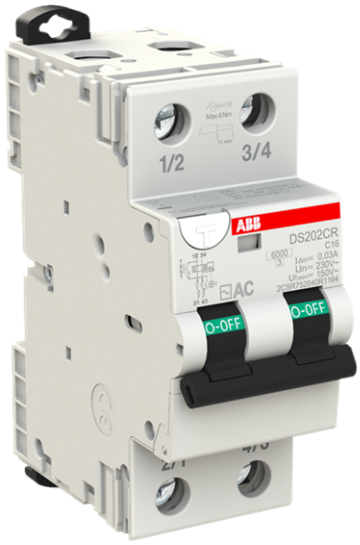
DS202CR Residual Current Circuit Breakers with Overcurrent protection

PEP ecopassport®

Product Environmental Profile



Registration number:	**ABBG-00065-V02.01-EN**	Drafting rules:	**PCR-ed4-EN-2021 09 06**
Contact information:	**EPD_ELSB@abb.com**	Supplemented by:	**PSR-0005-ed3.1-EN-2023 12 08**
Verifier accreditation number:	**VH45**	Information and reference documents:	**www.pep-ecopassport.org**
Date of issue:	**October-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	DS202CR C16 AC30 - 2CSR752040R1164
Description of the product	DS202CR Series are Residual Current Circuit Breakers with Overcurrent Protection in 2 protected poles acc. to IEC/EN 61009-1 and IEC/EN 61009-2-1
Functional unit	Protect the installation against overloads and short circuits and protect people and premises at risk of fire or explosion against insulation defects in a circuit with rated voltage (Ue) of 230/240 AC, rated current (In) 16A, with 2 poles (Np), a rated breaking capacity (Icn) of 6kA and the tripping curve (Cd) C, the sensitivity (S) 30mA, and the differential protection type (Tp) AC, in the Household/Commercial application area, according to the appropriate use scenario, and during the reference service life of the product of 20 years.
Other products covered	DS202CR RCBOs homogeneous family: - B & C curves - Ranges from 6 A to 40 A - Breaking capacity of 4.5, 6 & 10 kA - Residual current sensitivity types A, AC & APR - Sensibility of 10, 30 & 300 mA And different voltage versions and others depending on the installation and market requirements
Manufacturing address	ABB S.p.A. – ELSB Viale dell'Industria, 18, 20009 Vittuone (MI) - Italy www.new.abb.com/low-voltage

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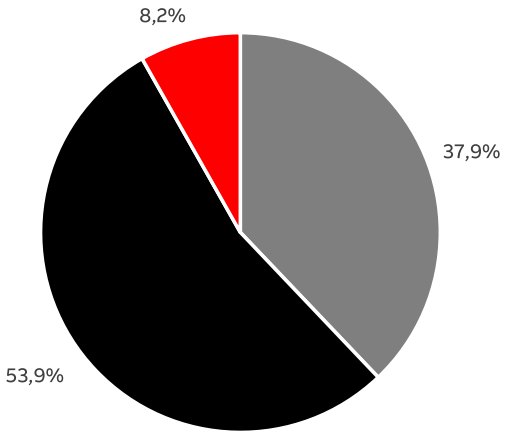
Constituent Materials



Total weight of reference product and packaging	**239,6**	**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%
PA & PA GF	29,0	**Steel**	33,7	**Cardboard**	5,7
PBT & PBT GF	4,0	**Copper**	14,8	**Paper**	1,9
PC & PC GF	1,6	**Iron Alloys**	4,2	**Electronics**	0,6
POM	1,2	**Aluminium**	0,9		
Other Plastics	2,1	**Other metals**	0,3		

Compatability acc. Low Voltage directive 2014/35/EU, RoHS directive 2011/65/EU, 2015/863(EU) & REACH regulation No 1907/2006 and national legislation.

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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. The production occurs mainly in Italy. And the data considered correspond to the year 2024.
Distribution	Includes the transportation in its packaging from ABB Santa Palomba factory to the Regional Distribution Centres until it reaches the final consumer.
Installation	Installation stage includes the installation of the products made manually and the end-of-life of packaging. No energy is required.
Use	Since the application of this device is primarily household/commercial, a 15 % In load rate and a 30 % use rate for 20 years were considered to calculate the power loss. Regarding the energy mix, the energy mixes of the main sales countries were used. A mix of european countries. And no maintenance is planned for the product.
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.
Benefits and loads beyond the system boundaries	Prevented impacts of recycling materials.

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Environmental Impacts

Reference lifetime	20 years
Product category	Differential circuit-breakers
Installation elements	No installation materials are required. End-of-life of the packaging components are accounted for during the installation phase
Use scenario	Power loss calculated acc. PSR criteria (15% In)
Geographical representativeness	Europe
Technological representativeness	Materials and processes data are specific for the production of one DS202CR C16 AC30 RCBO
Software and database used	SimaPro 10.2.0.0 & Ecoinvent 3.11
Energy model used	
Manufacturing	Global electricity grid mix
Installation	Non-applicable
Use	Energy mix of european countries acc. to market share
End of life	Energy from datasets of end-of-life processes for products and packaging in Europe

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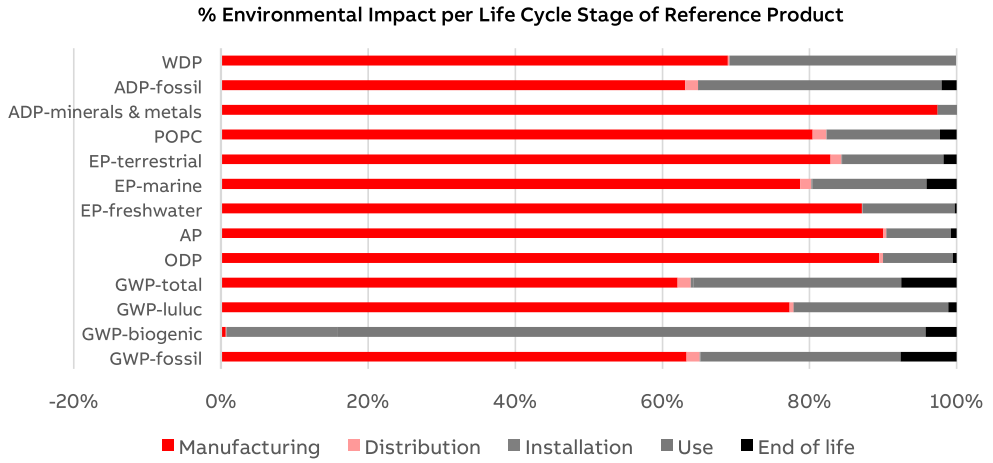
Common base of mandatory indicators



Environmental impact indicators

Indicator		Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
GWP	Total	kg CO2 eq.	3,61E+00	2,24E+00	6,30E-02	1,31E-02	1,02E+00	2,71E-01	-4,18E-01
	Fossil	kg CO2 eq.	3,54E+00	2,24E+00	6,29E-02	3,16E-03	9,63E-01	2,69E-01	-4,19E-01
	Biogenic	kg CO2 eq.	6,60E-02	4,46E-04	4,31E-05	9,94E-03	5,28E-02	2,77E-03	2,02E-03
	Luluc	kg CO2 eq.	3,67E-03	2,84E-03	2,08E-05	4,55E-07	7,71E-04	4,16E-05	-4,92E-04
ODP		kg CFC-11 eq.	2,54E-07	2,27E-07	1,37E-09	2,54E-11	2,41E-08	1,24E-09	-6,52E-09
AP		H+ eq.	4,68E-02	4,21E-02	2,02E-04	7,36E-06	4,08E-03	3,66E-04	-1,56E-02
EP	Freshwater	kg P eq.	4,18E-03	3,64E-03	4,29E-06	1,82E-07	5,25E-04	9,56E-06	-1,35E-03
	Marine	kg N eq.	4,45E-03	3,50E-03	6,80E-05	5,36E-06	6,90E-04	1,82E-04	-9,35E-04
	Terrestrial	mol N eq.	4,96E-02	4,11E-02	7,40E-04	3,06E-05	6,86E-03	8,70E-04	-1,24E-02
POCP		kg NMVOC eq.	1,64E-02	1,32E-02	3,06E-04	1,21E-05	2,53E-03	3,65E-04	-3,61E-03
ADP	Minerals & metals	kg SB eq.	6,43E-04	6,26E-04	2,12E-07	6,44E-09	1,63E-05	1,33E-07	-2,12E-04
	Fossil	MJ	5,23E+01	3,30E+01	8,92E-01	1,82E-02	1,73E+01	1,06E+00	-5,15E+00
WDP		m³ eq. depr.	1,33E+00	9,18E-01	3,46E-03	-7,68E-04	4,10E-01	-4,05E-04	-2,49E-01

Resource use indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
PERE	MJ	1,52E+01	4,45E+00	1,41E-02	1,10E-03	1,07E+01	5,47E-02	-8,79E-01
PERM	MJ	4,03E-01	4,03E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	1,56E+01	4,85E+00	1,41E-02	1,10E-03	1,07E+01	5,47E-02	-8,79E-01
PENRE	MJ	4,98E+01	3,05E+01	8,92E-01	1,82E-02	1,73E+01	1,06E+00	-5,15E+00
PENRM	MJ	2,43E+00	2,43E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	5,23E+01	3,30E+01	8,92E-01	1,82E-02	1,73E+01	1,06E+00	-5,15E+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	m^3	7,00E-02	2,62E-02	1,11E-04	-1,39E-05	4,36E-02	1,18E-04	-6,51E-03

Waste category indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
HWD	kg	2,37E-02	2,09E-02	2,25E-05	8,41E-05	9,57E-04	1,69E-03	-1,18E-04
N-HWD	kg	6,12E-01	3,29E-01	4,28E-02	6,50E-03	1,12E-01	1,22E-01	-5,07E-02
RWD	kg	1,36E-04	6,76E-05	2,62E-07	1,39E-08	6,77E-05	6,14E-07	-9,98E-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	1,73E-01	5,58E-02	0,00E+00	1,99E-02	0,00E+00	9,75E-02	0,00E+00
MfER	kg	5,47E-02	4,97E-03	0,00E+00	4,23E-03	0,00E+00	4,55E-02	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	6,15E-04
	Packaging	kg of C	8,57E-03

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Extrapolation Factors

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

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

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
2CSR752140R1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR752140R1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR752140R1134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR752140R1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR752140R1204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR752140R1254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR752140R1324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR752140R1404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR752140R3064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR752140R3104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR752140R3134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR752140R3164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR752140R3204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR752140R3254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR752140R3324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR752140R3404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR752040R1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR752040R1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR752040R1134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR752040R1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR752040R1204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR752040R1254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR752040R1324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR752040R1404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR752040R3064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR752040R3104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR752040R3134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR752040R3164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR752040R3204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR752040R3254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR752040R3324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR752040R3404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR752496R1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR752496R1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR752496R1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR752496R1204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR752496R1254	1,02	1,02	1,02	1,36	1,02	1,02

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Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
2CSR752496R1324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR752496R1404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772140R0104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772140R0134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772140R0164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772199U1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772199R1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772199R1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772199U1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772199R1134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772199U1134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772199R1154	1,00	1,00	1,00	0,93	1,00	1,00
2CSR772199R1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772199U1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772199R1204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772199R1254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772199R1324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772199R1404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772198R1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772198R1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772198R1134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772198R1154	1,00	1,00	1,00	0,93	1,00	1,00
2CSR772198R1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772198R1204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772198R1254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772198R1324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772198R1404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772140U1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772140U1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772140R1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772140U1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772140R1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772140R1134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772140R1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772140R1204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772140R1254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772140R1324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772140R1404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772140R3064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772140R3104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772140R3134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772140R3164	1,00	1,00	1,00	1,00	1,00	1,00

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Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
2CSR772140R3204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772140R3254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772140R3324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772140R3404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772040R1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772040R1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772040R1134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772040R1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772040R1204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772040R1254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772040R1324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772040R1404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772040R3064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772040R3104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772040R3134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772040R3164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772040R3204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772040R3254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772040R3324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772040R3404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772440R1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772440R1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772440R1134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772440R1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772440R1204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772440R1254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772440R1324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772440R1404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR742140R1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR742140R1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR742140R1134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR742140R1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR742140R1204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR742140R1254	1,02	1,02	1,02	1,36	1,02	1,02
2CSR742140R1324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR742140R1404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR742040R1064	1,00	1,00	1,00	0,65	0,99	1,00
2CSR742040R1104	0,99	0,99	0,99	0,65	0,99	0,99
2CSR742040R1134	1,00	1,00	1,00	0,81	1,00	1,00
2CSR742040R1164	1,00	1,00	1,00	1,00	1,00	1,00
2CSR742040R1204	1,01	1,01	1,01	1,29	1,01	1,01
2CSR742040R1254	1,02	1,02	1,02	1,36	1,02	1,02

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Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
2CSR742040R1324	1,03	1,03	1,03	1,89	1,03	1,03
2CSR742040R1404	1,04	1,04	1,04	2,62	1,05	1,04
2CSR752140R1065	1,00	1,00	1,00	0,65	0,99	1,00
2CSR752140R1105	0,99	0,99	0,99	0,65	0,99	0,99
2CSR752140R1135	1,00	1,00	1,00	0,81	1,00	1,00
2CSR752140R1165	1,00	1,00	1,00	1,00	1,00	1,00
2CSR752140R1205	1,01	1,01	1,01	1,29	1,01	1,01
2CSR752140R1255	1,02	1,02	1,02	1,36	1,02	1,02
2CSR752140R1325	1,03	1,03	1,03	1,89	1,03	1,03
2CSR752140R1405	1,04	1,04	1,04	2,62	1,05	1,04
2CSR752140R3065	1,00	1,00	1,00	0,65	0,99	1,00
2CSR752140R3105	0,99	0,99	0,99	0,65	0,99	0,99
2CSR752140R3135	1,00	1,00	1,00	0,81	1,00	1,00
2CSR752140R3165	1,00	1,00	1,00	1,00	1,00	1,00
2CSR752140R3205	1,01	1,01	1,01	1,29	1,01	1,01
2CSR752140R3255	1,02	1,02	1,02	1,36	1,02	1,02
2CSR752140R3325	1,03	1,03	1,03	1,89	1,03	1,03
2CSR752140R3405	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772140R0105	0,99	0,99	0,99	0,65	0,99	0,99
2CSR672191U0135	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772140R0135	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772140R0165	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772198R1065	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772198R1105	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772198R1135	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772198R1165	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772198R1205	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772198R1255	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772198R1325	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772198R1405	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772140U1102	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772140U1105	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772140U1165	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772140U1162	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772140R1062	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772140R1065	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772140R1102	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772140R1105	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772140R1132	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772140R1135	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772140R1162	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772140R1165	1,00	1,00	1,00	1,00	1,00	1,00

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Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
2CSR772140R1202	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772140R1205	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772140R1252	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772140R1255	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772140R1322	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772140R1325	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772140R1405	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772140R3065	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772140R3105	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772140R3135	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772140R3165	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772140R3205	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772140R3255	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772140R3325	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772140R3405	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772440R1065	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772440R1105	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772440R1135	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772440R1165	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772440R1205	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772440R1255	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772440R1325	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772440R1405	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772440R3065	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772440R3105	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772440R3135	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772440R3165	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772440R3205	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772440R3255	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772440R3325	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772440R3405	1,04	1,04	1,04	2,62	1,05	1,04
2CSR772140U1103	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772156U1103	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772140U1163	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772156U1163	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772140R1063	1,00	1,00	1,00	0,65	0,99	1,00
2CSR772140R1103	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772156R1103	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772140R1133	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772156R1133	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772140R1163	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772156R1163	1,00	1,00	1,00	1,00	1,00	1,00

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Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
2CSR772140R1203	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772156R1203	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772140R1253	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772156R1253	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772140R1323	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772156R1323	1,03	1,03	1,03	1,89	1,03	1,03
2CSR772156U1102	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772156U1162	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772156R1102	0,99	0,99	0,99	0,65	0,99	0,99
2CSR772156R1132	1,00	1,00	1,00	0,81	1,00	1,00
2CSR772156R1162	1,00	1,00	1,00	1,00	1,00	1,00
2CSR772156R1202	1,01	1,01	1,01	1,29	1,01	1,01
2CSR772156R1252	1,02	1,02	1,02	1,36	1,02	1,02
2CSR772156R1322	1,03	1,03	1,03	1,89	1,03	1,03

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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
POCP	Tropospheric ozone creation potential
ADP-m&m	Abiotic Depletion for non-fossil resources potential
ADP-fossil	Abiotic Depletion for fossil resources potential
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

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[2] PSR “PSR-0005-ed3.1-EN-2023 12 08” - SPECIFIC RULES FOR Electrical switchgear and control gear Solutions

[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 v3.11 (2025). ecoinvent database version 3.11 - (https://ecoinvent.org/)

[7] SimaPro Software version 10.2.0.0 - PRé Sustainability

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[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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