


DS201

# PEP ecopassport®

## Product Environmental Profile



Registration number:	ABBG-00209-V01.02-EN DS201	Drafting rules:	PCR-ed4-EN-2021 09 06
Contact information:	EPD_ELSB@abb.com	Supplemented by:	PSR-0005-ed2-EN-2016 03 29
Verifier accreditation number:	VH51	Information and reference documents:	www.pep-ecopassport.org
Date of issue:	December-23	Validity period:	5 years
<b>Independent verification of the declaration and data in compliance with ISO 14025: 2006</b>			
Internal:	<input type="checkbox"/>	External:	<input checked="" type="checkbox"/>
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (Ddomain)			
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"			



# 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 content of this PEP cannot be compared with the content based on another program/database.

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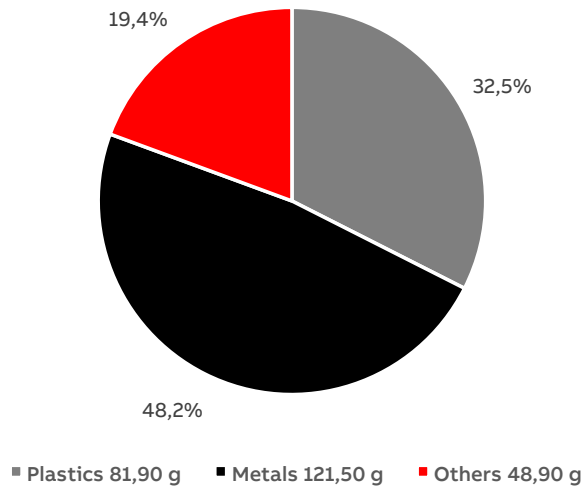


## General information

Reference product	DS201 C20 AC30 Code 2CSR255080R1204
Description of the product	<p>The DS201 C20 AC30 product is an universal Residual Current Circuit Breaker with Overcurrent Protection.</p> <p>The DS201 are 1P+N RCBOs in two-modules width for the protection of end user single-phase circuits against overload and short-circuit currents; it also provides protection against the effects of sinusoidal alternating earth fault currents and against indirect contacts and additional protection against direct contacts (with sensitivity = 30 mA).</p>
Functional unit	<p>The functional unit is designed to protect for 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 230 V and rated current 20 A. This protection is ensured in accordance with the following parameters:</p> <ul style="list-style-type: none"><li>- Number of poles 1P+N</li><li>- Rated breaking capacity Icn 6kA</li></ul>
Other products covered	<p>DS201 homogeneous family</p> <p>Ue [V] 110/230/240</p> <p>In [A] 1/2/4/6/8/10/13/15/16/20/25/30/32/35/40</p> <p>Np 1P+N</p> <p>Icn [A] 6 kA</p> <p>Tripping curve Cd B, C, D, K</p> <p>Type of differential protection A / AC / APR / F / G</p> <p>Rated Sensitivity [mA] 10/30/100/300</p>
Manufacturing address	<p>ABB S.p.A. – ELSB Viale dell'Industria, 18 20009 Vittuone (MI) - Italy</p> <p><a href="http://www.new.abb.com">www.new.abb.com</a></p>



# Constituent Materials



Total weight of reference product and packaging

**252,3 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	19,9	Steel	37,4	Cardboard	11,6
Glass Fiber	8,4	Copper	5,1	wood	6,7
PC	1,9	Nickel	2,6	Resistor/PCB/ Other	0,8
POM/PTFE/PP /PE	1,3	Iron	1,6	Paper	0,3
PPS	1,0	Other metals	1,5		

Total weight of the reference product is 204,5g plus packaging 47,8g.



## Additional Information

<b>Manufacturing</b>	<p>The manufacturing stage includes the production and transportation to the manufacturer's last logistic platform of DS201 and its packaging. The production occurs at the ABB factory located in Santa Palomba (RM).</p>
<b>Distribution</b>	<p>The transport from ABB Santa Palomba factory to Vignate, Milan was taken into account. For the distribution of the product from Vignate to the final customer, the intracontinental transport scenario provided by PCR-ed4-EN-2021 09 06 standard was adopted, considering the European macro-area.</p>
<b>Installation</b>	<p>The installation phase only implies manual activities and no energy is consumed. This phase also includes the disposal of the packaging of the product. Statistical average data from Eurostat databases were considered for the disposal of the product and its packaging.</p>
<b>Use</b>	<p>DS201 dissipate some electricity due to power losses. The average power loss of the switch has been calculated as follow:</p> <ul style="list-style-type: none"><li>- Nominal current load rate as 50% (Household / Commercial);</li><li>- RSL of 20 years;</li><li>- Functioning time of 30% of the RSL (<math>\alpha</math>).</li></ul> <p>No maintenance is planned for the product.</p>
<b>End of life</b>	<p>The default end of life scenario provided by the IEC/TR 62635 document has been adopted, considering the product transport by lorry over 1000 km and its disposal.</p>
<b>Benefits and loads beyond the system boundaries</b>	<p>No benefits and loads beyond the system boundaries has been considered.</p>



# Environmental Impacts

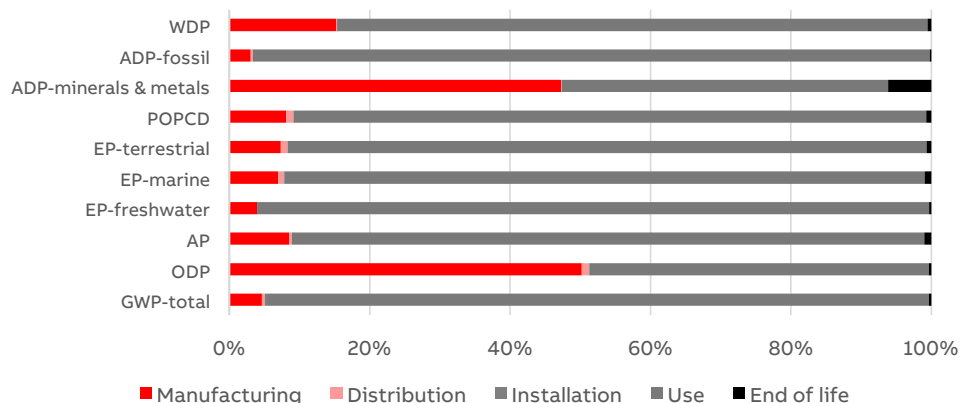
Reference lifetime	20 years
Product category	Residual Current Circuit Breaker with Overcurrent Protection
Installation elements	No installation materials are required in the life cycle of the product.
Use scenario	The calculation of the use stage electricity consumption from the average power consider the following assumptions: - Nominal current load rate as 50% (Household / Commercial);
Geographical representativeness	For the use and end-of-life stages of the product, the geographical boundaries of Europe have been considered
Technological representativeness	Technological representativeness refers to the specific production process for primary data.
Software and database used	SimaPro 9.4.0.2 and ecoinvent 3.8

## Energy model used

Manufacturing	ABB GO energy mix 2021. The energy-related processes used for the remaining inputs are those included in the ecoinvent v3.8 datasets.
Installation	No energy consumption occur during the installation stage
Use	Electricity, low voltage [RER] market group for electricity, low voltage   Cut-off, S
End of life	The energy-related processes used for the inputs of the end-of-life stage are those included in the ecoinvent datasets selected for the analysis.

## Common base of mandatory indicators

% Environmental Impact per Life Cycle Stage of Reference Product



### Environmental impact indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits	
GWP	Total	kg CO2 eq.	4,05E+01	1,88E+00	1,71E-01	1,20E-01	3,82E+01	1,43E-01	0,00E+00
	Fossil	kg CO2 eq.	3,91E+01	1,87E+00	1,70E-01	1,14E-02	3,69E+01	1,37E-01	0,00E+00
	Biogenic	kg CO2 eq.	1,31E+00	5,29E-03	1,55E-04	1,08E-01	1,19E+00	5,63E-03	0,00E+00
	Luluc	kg CO2 eq.	8,96E-02	2,19E-03	6,75E-05	4,32E-06	8,72E-02	1,32E-04	0,00E+00
ODP		kg CFC-11 eq.	3,84E-06	1,93E-06	3,98E-08	2,11E-09	1,86E-06	1,30E-08	0,00E+00
AP		H+ eq.	2,33E-01	1,99E-02	8,64E-04	5,52E-05	2,10E-01	2,28E-03	0,00E+00
EP	Freshwater	kg P eq.	3,88E-02	1,53E-03	1,11E-05	9,62E-07	3,72E-02	1,26E-04	0,00E+00
	Marine	kg N eq.	3,84E-02	2,68E-03	2,97E-04	2,62E-05	3,50E-02	3,55E-04	0,00E+00
	Terrestrial	mol N eq.	3,40E-01	2,49E-02	3,25E-03	2,08E-04	3,09E-01	2,23E-03	0,00E+00
POPCD		kg NMVOC eq.	9,41E-02	7,63E-03	9,28E-04	6,20E-05	8,48E-02	6,58E-04	0,00E+00
ADP	Minerals & metals	kg SB eq.	7,47E-04	3,53E-04	5,98E-07	4,06E-08	3,47E-04	4,60E-05	0,00E+00
	Fossil	MJ	8,15E+02	2,48E+01	2,60E+00	1,47E-01	7,86E+02	1,69E+00	0,00E+00
WDP		m³ eq. depr.	1,07E+01	1,64E+00	7,83E-03	6,33E-04	9,02E+00	5,81E-02	0,00E+00

### Resource use indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
PERE	MJ	1,68E+02	5,90E+00	3,66E-02	2,55E-03	1,62E+02	2,07E-01	0,00E+00
PERM	MJ	1,23E+00	1,23E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	1,69E+02	7,13E+00	3,66E-02	2,55E-03	1,62E+02	2,07E-01	0,00E+00
PENRE	MJ	8,13E+02	2,29E+01	2,60E+00	1,47E-01	7,86E+02	1,69E+00	0,00E+00
PENRM	MJ	1,87E+00	1,87E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	8,15E+02	2,48E+01	2,60E+00	1,47E-01	7,86E+02	1,69E+00	0,00E+00

## 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 <sup>3</sup>	7,28E-01	4,25E-02	2,90E-04	2,81E-05	6,83E-01	1,85E-03	0,00E+00

### Waste category indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
HWD	kg	7,71E-04	1,58E-04	6,79E-06	3,85E-07	5,98E-04	7,95E-06	0,00E+00
N-HWD	kg	3,51E+00	4,48E-01	1,34E-01	1,59E-02	2,75E+00	1,63E-01	0,00E+00
RWD	kg	5,87E-03	6,56E-05	1,76E-05	9,53E-07	5,78E-03	9,98E-06	0,00E+00

### 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	2,15E-01	7,09E-02	0,00E+00	3,03E-02	0,00E+00	1,14E-01	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	1,48E-01	4,81E-02	0,00E+00	4,81E-02	0,00E+00	5,14E-02	0,00E+00

### Other indicators

Indicator	Unit	Total
Biogenic Carbon	kg of C	0,00E+00
Product Packaging	kg of C	2,54E-02

### Optional indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
Tot PE	MJ	9,85E+02	3,19E+01	2,64E+00	1,50E-01	9,48E+02	1,90E+00	0,00E+00
Efp	Dise inc	8,25E-07	1,27E-07	1,52E-08	9,43E-10	6,70E-07	1,20E-08	0,00E+00
IrHH	kBq U-235 eq	2,17E+01	1,79E-01	1,34E-02	7,50E-04	2,15E+01	2,31E-02	0,00E+00
ETX FW	CTUe	6,43E+02	1,32E+02	2,03E+00	1,57E-01	4,97E+02	1,22E+01	0,00E+00
HTX CE	CTUh	2,53E-08	6,98E-09	6,57E-11	7,69E-12	1,53E-08	2,94E-09	0,00E+00
HTX N-CE	CTUh	7,04E-07	1,79E-07	2,13E-09	1,47E-10	4,88E-07	3,51E-08	0,00E+00
IrLS	Pt	1,66E+02	2,03E+01	1,79E+00	9,80E-02	1,42E+02	1,38E+00	0,00E+00

## 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:

For the manufacturing stage, distribution stage and end-of-life stage:  $y = a_n \cdot x_1 + b_n$ , where  $x_1$  is the weight of the product;

For use stage:  $y = a_n \cdot x_2 + b_n$ , where  $x_2$  is the average Power loss of the product.

Table below reports the linear coefficients  $a_n$  and  $b_n$  for each life cycle stage. The calculation of the coefficient for the Installation Stage was not performed because the selected parameters do not affect the values for this stage.

Impact Category	Manufacturing		Distribution		Installation		Use		End of Life	
	a1	b1	a2	b2	a3	b3	a4	b4	a5	b5
GWP-total	8,71E-03	1,32E-01	6,91E-04	3,18E-02	0,00E+00	0,00E+00	2,12E+01	-1,19E-06	7,12E-04	2,79E-10
GWP-fossil	8,60E-03	1,47E-01	6,90E-04	3,18E-02	0,00E+00	0,00E+00	2,05E+01	-1,15E-06	6,83E-04	2,67E-10
GWP-biogenic	1,03E-04	-1,55E-02	6,26E-07	2,88E-05	0,00E+00	0,00E+00	6,61E-01	-3,70E-08	2,80E-05	1,10E-11
GWP-luluc	8,82E-06	4,16E-04	2,73E-07	1,26E-05	0,00E+00	0,00E+00	4,85E-02	-2,71E-09	6,56E-07	2,57E-13
ODP	9,49E-09	1,82E-08	1,61E-10	7,41E-09	0,00E+00	0,00E+00	1,03E-06	-5,79E-14	6,45E-11	2,52E-17
AP	9,31E-05	1,20E-03	3,50E-06	1,61E-04	0,00E+00	0,00E+00	1,17E-01	-6,53E-09	1,14E-05	4,45E-12
EP-freshwater	7,24E-06	7,42E-05	4,49E-08	2,06E-06	0,00E+00	0,00E+00	2,06E-02	-1,16E-09	6,27E-07	2,45E-13
EP-marine	1,21E-05	2,59E-04	1,20E-06	5,54E-05	0,00E+00	0,00E+00	1,95E-02	-1,09E-09	1,77E-06	6,92E-13
EP-terrestrial	1,13E-04	2,19E-03	1,32E-05	6,06E-04	0,00E+00	0,00E+00	1,71E-01	-9,60E-09	1,11E-05	4,34E-12
POCP	3,47E-05	6,59E-04	3,76E-06	1,73E-04	0,00E+00	0,00E+00	4,71E-02	-2,64E-09	3,27E-06	1,28E-12
ADPE	1,68E-06	1,49E-05	2,42E-09	1,11E-07	0,00E+00	0,00E+00	1,93E-04	-1,08E-11	2,29E-07	8,95E-14
ADPF	1,12E-01	2,25E+00	1,05E-02	4,84E-01	0,00E+00	0,00E+00	4,37E+02	-2,45E-05	8,41E-03	3,29E-09
WDP	6,37E-03	3,58E-01	3,17E-05	1,46E-03	0,00E+00	0,00E+00	5,01E+00	-2,81E-07	2,89E-04	1,13E-10
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
MFR	1,27E-04	4,55E-02	1,27E-04	4,55E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,68E-04	2,23E-10
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
EE	0,00E+00	4,81E-02	0,00E+00	4,81E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,56E-04	1,00E-10
PM	5,59E-10	1,50E-08	6,15E-11	2,83E-09	0,00E+00	0,00E+00	3,72E-07	-2,08E-14	5,99E-11	2,34E-17
IRP	8,13E-04	1,59E-02	5,41E-05	2,49E-03	0,00E+00	0,00E+00	1,20E+01	-6,70E-07	1,15E-04	4,50E-11
PENRE	1,12E-01	3,69E-01	1,05E-02	4,84E-01	0,00E+00	0,00E+00	4,37E+02	-2,44E-05	8,41E-03	3,29E-09
PENRM	0,0E+00	1,87E+00	0,0E+00	0,0E+00	0,00E+00	0,00E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
PENRT	1,12E-01	2,24E+00	1,05E-02	4,84E-01	0,00E+00	0,00E+00	4,37E+02	-2,44E-05	8,41E-03	3,29E-09
PERE	1,49E-02	2,91E+00	1,48E-04	6,83E-03	0,00E+00	0,00E+00	8,99E+01	-5,04E-06	1,03E-03	4,04E-10
PERM	0,0E+00	1,23E+00	0,0E+00	0,0E+00	0,00E+00	0,00E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
PERT	1,49E-02	4,14E+00	1,48E-04	6,83E-03	0,00E+00	0,00E+00	8,99E+01	-5,04E-06	1,03E-03	4,04E-10
PE	1,27E-01	6,38E+00	1,07E-02	4,91E-01	0,00E+00	0,00E+00	5,27E+02	-2,95E-05	9,44E-03	3,69E-09
SM	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,00E+00	0,00E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
RSF	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,00E+00	0,00E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
NRSF	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,00E+00	0,00E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
FW	1,68E-04	8,75E-03	1,17E-06	5,40E-05	0,00E+00	0,00E+00	3,80E-01	-2,13E-08	9,20E-06	3,60E-12
HWD	7,61E-07	5,31E-06	2,75E-08	1,26E-06	0,00E+00	0,00E+00	3,32E-04	-1,86E-11	3,96E-08	1,55E-14
NHWD	1,92E-03	6,09E-02	5,41E-04	2,49E-02	0,00E+00	0,00E+00	1,53E+00	-8,54E-08	8,09E-04	3,17E-10
RWD	2,88E-07	7,75E-06	7,12E-08	3,27E-06	0,00E+00	0,00E+00	3,21E-03	-1,80E-10	4,97E-08	1,94E-14
ETP-fw	6,31E-01	5,16E+00	8,21E-03	3,78E-01	0,00E+00	0,00E+00	2,76E+02	-1,55E-05	6,05E-02	2,37E-08
HTP-c	3,26E-11	4,28E-10	2,66E-13	1,22E-11	0,00E+00	0,00E+00	8,51E-09	-4,76E-16	1,46E-11	5,72E-18
HTP-nc	8,38E-10	1,10E-08	8,61E-12	3,96E-10	0,00E+00	0,00E+00	2,71E-07	-1,52E-14	1,75E-10	6,84E-17
SQP	4,14E-02	1,20E+01	7,23E-03	3,33E-01	0,00E+00	0,00E+00	7,89E+01	-4,42E-06	6,87E-03	2,69E-09
BCProd	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,00E+00	0,00E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
BCPack	1,27E-04	4,55E-02	1,27E-04	4,55E-02	0,00E+00	0,00E+00	0,0E+00	0,0E+00	5,68E-04	2,23E-10



# Extrapolation Factors

Product Code	Product Name	Weight [g]	Average power loss [W]	Product Code	Product Name	Weight [g]	Average power loss [W]
2CSR245041R3064	DS201 L C6 AC300-L	201	1.2	2CSR245180R3254	DS201 L C25 A300	201	2.75
2CSR245041R0064	DS201 L C6 AC10-L	201	1.2	2CSR245041U1104	DS201 L C10 AC30 U - L	201	0.9
2CSR245441R1204	DS201 L C20 APR30-L	201	1.8	2CSR245041U1164	DS201 L C16 AC30 U - L	201	1.65
2CSR245441R1164	DS201 L C16 APR30-L	201	1.65	2CSR245080R1254	DS201 L C25 AC30	201	2.75
2CSR245041R3404	DS201 L C40 AC300-L	220	2.5	2CSR245180R1254	DS201 L C25 A30	201	2.75
2CSR245041R3324	DS201 L C32 AC300-L	220	3.2	2CSR245080R3204	DS201 L C20 AC300	201	1.8
2CSR245041R3254	DS201 L C25 AC300-L	201	2.75	2CSR245080R3324	DS201 L C32 AC300	220	3.2
2CSR245041R3204	DS201 L C20 AC300-L	201	1.8	2CSR245180R1104	DS201 L C10 A30	201	0.9
2CSR245180R3064	DS201 L C6 A300	201	1.2	2CSR245080R3104	DS201 L C10 AC300	201	0.9
2CSR245041R3104	DS201 L C10 AC300-L	201	0.9	2CSR245180R1164	DS201 L C16 A30	201	1.65
2CSR245180R3164	DS201 L C16 A300	201	1.65	2CSR245180R0064	DS201 L C6 A10	201	1.2
2CSR245041R1404	DS201 L C40 AC30-L	220	2.5	2CSR245080R3164	DS201 L C16 AC300	201	1.65
2CSR245041R1324	DS201 L C32 AC30-L	220	3.2	2CSR245080R3064	DS201 L C6 AC300	201	1.2
2CSR245480R1204	DS201 L C20 APR30	201	1.8	2CSR245180R1064	DS201 L C6 A30	201	1.2
2CSR245041R1254	DS201 L C25 AC30-L	201	2.75	2CSR255041R3254	DS201 C25 AC300-L	201	2.75
2CSR245480R1324	DS201 L C32 APR30	220	3.2	2CSR255041R3404	DS201 C40 AC300-L	220	2.5
2CSR245041R1204	DS201 L C20 AC30-L	201	1.8	2CSR255041R3324	DS201 C32 AC300-L	220	3.2
2CSR245480R1104	DS201 L C10 APR30	201	0.9	2CSR255041R1404	DS201 C40 AC30-L	220	2.5
2CSR245041R1164	DS201 L C16 AC30-L	201	1.65	2CSR255041R1324	DS201 C32 AC30-L	220	3.2
2CSR245041R1104	DS201 L C10 AC30-L	201	0.9	2CSR255041R3204	DS201 C20 AC300-L	201	1.8
2CSR245480R1254	DS201 L C25 APR30	201	2.75	2CSR255041R3164	DS201 C16 AC300-L	201	1.65
2CSR245041R1064	DS201 L C6 AC30-L	201	1.2	2CSR255041R3104	DS201 C10 AC300-L	201	0.9
2CSR245041R1044	DS201 L C4 AC30-L	201	1.1	2CSR255041R3064	DS201 C6 AC300-L	201	1.2
2CSR245480R1164	DS201 L C16 APR30	201	1.65	2CSR255041R1254	DS201 C25 AC30-L	201	2.75
2CSR245080R1324	DS201 L C32 AC30	220	3.2	2CSR255041R1204	DS201 C20 AC30-L	201	1.8
2CSR245041R1024	DS201 L C2 AC30-L	201	0.8	2CSR255041R1104	DS201 C10 AC30-L	201	0.9
2CSR245480R1064	DS201 L C6 APR30	201	1.2	2CSR255041R1064	DS201 C6 AC30-L	201	1.2
2CSR245080R1204	DS201 L C20 AC30	201	1.8	2CSR255041R1164	DS201 C16 AC30-L	201	1.65
2CSR245041R0164	DS201 L C16 AC10-L	201	1.65	2CSR255080R2065	DS201 B6 AC100	201	1.2
2CSR245180R1324	DS201 L C32 A30	220	3.2	2CSR255080R2064	DS201 C6 AC100	201	1.2
2CSR245041R0104	DS201 L C10 AC10-L	201	0.9	2CSR255080R1105	DS201 B10 AC30	201	0.9
2CSR245080R1104	DS201 L C10 AC30	201	0.9	2CSR255080R1104	DS201 C10 AC30	201	0.9
2CSR245180R3104	DS201 L C10 A300	201	0.9	2CSR255080R2205	DS201 B20 AC100	201	1.8
2CSR245180R1204	DS201 L C20 A30	201	1.8	2CSR255080R2204	DS201 C20 AC100	201	1.8
2CSR245080R1064	DS201 L C6 AC30	201	1.2	2CSR255080R1325	DS201 B32 AC30	220	3.2
2CSR245041R3164	DS201 L C16 AC300-L	201	1.65	2CSR255080R1204	DS201 C20 AC30	201	1.8
2CSR245180R0104	DS201 L C10 A10	201	0.9	2CSR255080R1205	DS201 B20 AC30	201	1.8
2CSR245180R3324	DS201 L C32 A300	220	3.2	2CSR255080R1324	DS201 C32 AC30	220	3.2
2CSR245080R3254	DS201 L C25 AC300	201	2.75	2CSR255080R3065	DS201 B6 AC300	201	1.2
2CSR245080R1164	DS201 L C16 AC30	201	1.65	2CSR255080R3064	DS201 C6 AC300	201	1.2
2CSR245180R3204	DS201 L C20 A300	201	1.8	2CSR255080R1404	DS201 C40 AC30	220	2.5
2CSR245041U1064	DS201 L C6 AC30 U - L	201	1.2	2CSR255080R3165	DS201 B16 AC300	201	1.65
2CSR245180R0164	DS201 L C16 A10	201	1.65	2CSR255080R1405	DS201 B40 AC30	220	2.5

# Extrapolation Factors

Product Code	Product Name	Weight [g]	Average power loss [W]	Product Code	Product Name	Weight [g]	Average power loss [W]
2CSR255080R3164	DS201 C16 AC300	201	1.65	2CSR255080R3325	DS201 B32 AC300	220	3.2
2CSR255080R1064	DS201 C6 AC30	201	1.2	2CSR255141R1404	DS201 C40 A30-L	220	2.5
2CSR255080R1065	DS201 B6 AC30	201	1.2	2CSR255141R3061	DS201 D6 A300-L	201	1.2
2CSR255080R3405	DS201 B40 AC300	220	2.5	2CSR255080R3204	DS201 C20 AC300	201	1.8
2CSR255080R3404	DS201 C40 AC300	220	2.5	2CSR255141R3064	DS201 C6 A300-L	201	1.2
2CSR255080R2164	DS201 C16 AC100	201	1.65	2CSR255086R1104	DS201 C10 AC30 240V	201	0.9
2CSR255080R2165	DS201 B16 AC100	201	1.65	2CSR255141R3101	DS201 D10 A300-L	201	0.9
2CSR255080R2324	DS201 C32 AC100	220	3.2	2CSR255086R1064	DS201 C6 AC30 240V	201	1.2
2CSR255080R2325	DS201 B32 AC100	220	3.2	2CSR255141R3104	DS201 C10 A300-L	201	0.9
2CSR255080R2135	DS201 B13 AC100	201	1.25	2CSR255141R1104	DS201 C10 A30-L	201	0.9
2CSR255080R2404	DS201 C40 AC100	220	2.5	2CSR255141R3161	DS201 D16 A300-L	201	1.65
2CSR255080R1164	DS201 C16 AC30	201	1.65	2CSR255086R1204	DS201 C20 AC30 240V	201	1.8
2CSR255080R1165	DS201 B16 AC30	201	1.65	2CSR255141R3164	DS201 C16 A300-L	201	1.65
2CSR255080R2405	DS201 B40 AC100	220	2.5	2CSR255086R1164	DS201 C16 AC30 240V	201	1.65
2CSR255080R2134	DS201 C13 AC100	201	1.25	2CSR255141R3201	DS201 D20 A300-L	201	1.8
2CSR255080R3254	DS201 C25 AC300	201	2.75	2CSR255086R1254	DS201 C25 AC30 240V	201	2.75
2CSR255080R3135	DS201 B13 AC300	201	1.25	2CSR255141R3204	DS201 C20 A300-L	201	1.8
2CSR255080R1255	DS201 B25 AC30	201	2.75	2CSR255141R3251	DS201 D25 A300-L	201	2.75
2CSR255080R3255	DS201 B25 AC300	201	2.75	2CSR255086R1134	DS201 C13 AC30 240V	201	1.25
2CSR255080R1134	DS201 C13 AC30	201	1.25	2CSR255141R3254	DS201 C25 A300-L	201	2.75
2CSR255141R1164	DS201 C16 A30-L	201	1.65	2CSR255141R3321	DS201 D32 A300-L	220	3.2
2CSR255080R3134	DS201 C13 AC300	201	1.25	2CSR255141R3324	DS201 C32 A300-L	220	3.2
2CSR255141R1061	DS201 D6 A30-L	201	1.2	2CSR255086R1324	DS201 C32 AC30 240V	220	3.2
2CSR255080R1135	DS201 B13 AC30	201	1.25	2CSR255086R1404	DS201 C40 AC30 240V	220	2.5
2CSR255141R1064	DS201 C6 A30-L	201	1.2	2CSR255141R3401	DS201 D40 A300-L	220	2.5
2CSR255080R3104	DS201 C10 AC300	201	0.9	2CSR255141R3404	DS201 C40 A300-L	220	2.5
2CSR255080R2104	DS201 C10 AC100	201	0.9	2CSR255144U1165	DS201S B16 A30 U HAF-L	201	1.65
2CSR255141R1101	DS201 D10 A30-L	201	0.9	2CSR255144U1164	DS201S C16 A30 U HAF-L	201	1.65
2CSR255141R1161	DS201 D16 A30-L	201	1.65	2CSR255180R1065	DS201 B6 A30	201	1.2
2CSR255080R2105	DS201 B10 AC100	201	0.9	2CSR255180R1067	DS201 K6 A30	201	1.2
2CSR255080R3105	DS201 B10 AC300	201	0.9	2CSR255180R1027	DS201 K2 A30	201	0.8
2CSR255141R1201	DS201 D20 A30-L	201	1.8	2CSR255180R1064	DS201 C6 A30	201	1.2
2CSR255080R2254	DS201 C25 AC100	201	2.75	2CSR255180R1024	DS201 C2 A30	201	0.8
2CSR255080R1254	DS201 C25 AC30	201	2.75	2CSR255180R0167	DS201 K16 A10	201	1.65
2CSR255141R1204	DS201 C20 A30-L	201	1.8	2CSR255180R1087	DS201 K8 A30	201	0.95
2CSR255080R2255	DS201 B25 AC100	201	2.75	2CSR255180R1084	DS201 C8 A30	201	0.95
2CSR255141R1251	DS201 D25 A30-L	201	2.75	2CSR255180R1017	DS201 K1 A30	201	0.7
2CSR255080R3324	DS201 C32 AC300	220	3.2	2CSR255180R1257	DS201 K25 A30	201	2.75
2CSR255141R1254	DS201 C25 A30-L	201	2.75	2CSR255180R0164	DS201 C16 A10	201	1.65
2CSR255080R3205	DS201 B20 AC300	201	1.8	2CSR255180R1135	DS201 B13 A30	201	1.25
2CSR255141R1321	DS201 D32 A30-L	220	3.2	2CSR255180R0165	DS201 B16 A10	201	1.65
2CSR255141R1324	DS201 C32 A30-L	220	3.2	2CSR255180R1137	DS201 K13 A30	201	1.25
2CSR255141R1401	DS201 D40 A30-L	220	2.5	2CSR255180R0135	DS201 B13 A10	201	1.25

## Extrapolation Factors

Product Code	Product Name	Weight [g]	Average power loss [W]	Product Code	Product Name	Weight [g]	Average power loss [W]
2CSR255187R1305	DS201 B30 A30 UL	220	3.2	2CSR255441R1204	DS201 C20 APR30-L	201	1.8
2CSR255188R1104	DS201T C10 A30	201	0.9	2CSR255188R1137	DS201T K13 A30	201	1.25
2CSR255187R1107	DS201 K10 A30 UL	201	0.9	2CSR255441R1324	DS201 C32 APR30-L	220	3.2
2CSR255180R3404	DS201 C40 A300	220	2.5	2CSR255441R3164	DS201 C16 APR300-L	201	1.65
2CSR255187R1304	DS201 C30 A30 UL	220	3.2	2CSR255188R1254	DS201T C25 A30	201	2.75
2CSR255188R1324	DS201T C32 A30	220	3.2	2CSR255441R3204	DS201 C20 APR300-L	201	1.8
2CSR255187R1325	DS201 B32 A30 UL	220	3.2	2CSR255188R1134	DS201T C13 A30	201	1.25
2CSR255180R3064	DS201 C6 A300	201	1.2	2CSR255482R1134	DS201 C13 G30	201	1.25
2CSR255180U1064	DS201 C6 A30	201	1.2	2CSR255441R3254	DS201 C25 APR300-L	201	2.75
2CSR255187R1324	DS201 C32 A30 UL	220	3.2	2CSR255441R3324	DS201 C32 APR300-L	220	3.2
2CSR255188R1204	DS201T C20 A30	201	1.8	2CSR255188R1255	DS201T B25 A30	201	2.75
2CSR255180R2324	DS201 C32 A100	220	3.2	2CSR255482R1255	DS201 B25 G30	201	2.75
2CSR255180U1135	DS201 B13 A30	201	1.25	2CSR255441R1254	DS201 C25 APR30-L	201	2.75
2CSR255187R1137	DS201 K13 A30 UL	201	1.25	2CSR255188R1064	DS201T C6 A30	201	1.2
2CSR255188R1105	DS201T B10 A30	201	0.9	2CSR255482R1135	DS201 B13 G30	201	1.25
2CSR255180R2205	DS201 B20 A100	201	1.8	2CSR255187R1405	DS201 B40 A30 UL	220	2.5
2CSR255187R1167	DS201 K16 A30 UL	201	1.65	2CSR255187R1404	DS201 C40 A30 UL	220	2.5
2CSR255180U1165	DS201 B16 A30	201	1.65	2CSR255480R1404	DS201 C40 APR30	220	2.5
2CSR255180R2325	DS201 B32 A100	220	3.2	2CSR255482R1254	DS201 C25 G30	201	2.75
2CSR255186R1064	DS201 C6 A30 240V	201	1.2	2CSR255187R1355	DS201 B35 A30 UL	220	3.45
2CSR255188R1325	DS201T B32 A30	220	3.2	2CSR255480R1104	DS201 C10 APR30	201	0.9
2CSR255188R1164	DS201T C16 A30	201	1.65	2CSR255187R1354	DS201 C35 A30 UL	220	3.45
2CSR255180R2204	DS201 C20 A100	201	1.8	2CSR255480R3064	DS201 C6 APR300	201	1.2
2CSR255186R1024	DS201 C2 A30 240V	201	0.8	2CSR255480R1324	DS201 C32 APR30	220	3.2
2CSR255188R1065	DS201T B6 A30	201	1.2	2CSR255482R1204	DS201 C20 G30	201	1.8
2CSR255186R1044	DS201 C4 A30 240V	201	1.1	2CSR255480R1204	DS201 C20 APR30	201	1.8
2CSR255188R1165	DS201T B16 A30	201	1.65	2CSR255482R1325	DS201 B32 G30	220	3.2
2CSR255180R2405	DS201 B40 A100	220	2.5	2CSR255482R1205	DS201 B20 G30	201	1.8
2CSR255188R1067	DS201T K6 A30	201	1.2	2CSR255480R1254	DS201 C25 APR30	201	2.75
2CSR255180R2404	DS201 C40 A100	220	2.5	2CSR255482R1324	DS201 C32 G30	220	3.2
2CSR255188R1167	DS201T K16 A30	201	1.65	2CSR255480R1134	DS201 C13 APR30	201	1.25
2CSR255188R1407	DS201T K40 A30	220	2.5	2CSR255480R2104	DS201 C10 APR100	201	0.9
2CSR255188R1205	DS201T B20 A30	201	1.8	2CSR255480R2404	DS201 C40 APR100	220	2.5
2CSR255188R1404	DS201T C40 A30	220	2.5	2CSR255480R1064	DS201 C6 APR30	201	1.2
2CSR255188R1107	DS201T K10 A30	201	0.9	2CSR255480R2204	DS201 C20 APR100	201	1.8
2CSR255188R1327	DS201T K32 A30	220	3.2	2CSR255480R1164	DS201 C16 APR30	201	1.65
2CSR255188R1405	DS201T B40 A30	220	2.5	2CSR255480R2324	DS201 C32 APR100	220	3.2
2CSR255188R1207	DS201T K20 A30	201	1.8	2CSR255480R3404	DS201 C40 APR300	220	2.5
2CSR255441R1104	DS201 C10 APR30-L	201	0.9	2CSR255480R2064	DS201 C6 APR100	201	1.2
2CSR255188R1135	DS201T B13 A30	201	1.25	2CSR255480R3324	DS201 C32 APR300	220	3.2
2CSR255441R1164	DS201 C16 APR30-L	201	1.65	2CSR255190R1164	DS201T C16 A30 240V	201	1.65
2CSR255441R3104	DS201 C10 APR300-L	201	0.9	2CSR255480R3204	DS201 C20 APR300	201	1.8
2CSR255188R1257	DS201T K25 A30	201	2.75	2CSR255190R1324	DS201T C32 A30 240V	220	3.2

## Extrapolation Factors

Product Code	Product Name	Weight [g]	Average power loss [W]	Product Code	Product Name	Weight [g]	Average power loss [W]
2CSR255480R3254	DS201 C25 APR300	201	2.75	2CSR275080R2205	DS201 M B20 AC100	201	1.8
2CSR255190R1404	DS201T C40 A30 240V	220	2.5	2CSR275080R2204	DS201 M C20 AC100	201	1.8
2CSR255480R2164	DS201 C16 APR100	201	1.65	2CSR275080R2255	DS201 M B25 AC100	201	2.75
2CSR255190R1204	DS201T C20 A30 240V	201	1.8	2CSR275080R2254	DS201 M C25 AC100	201	2.75
2CSR255480R3134	DS201 C13 APR300	201	1.25	2CSR275080R1105	DS201 M B10 AC30	201	0.9
2CSR255190R1064	DS201T C6 A30 240V	201	1.2	2CSR275080R3104	DS201 M C10 AC300	201	0.9
2CSR255480R2134	DS201 C13 APR100	201	1.25	2CSR275080R1104	DS201 M C10 AC30	201	0.9
2CSR255488R1405	DS201T B40 APR30	220	2.5	2CSR275080R3105	DS201 M B10 AC300	201	0.9
2CSR255190R1104	DS201T C10 A30 240V	201	0.9	2CSR275080R2135	DS201 M B13 AC100	201	1.25
2CSR255480R2254	DS201 C25 APR100	201	2.75	2CSR275080R2134	DS201 M C13 AC100	201	1.25
2CSR255488R1404	DS201T C40 APR30	220	2.5	2CSR275080R3324	DS201 M C32 AC300	220	3.2
2CSR255190R1254	DS201T C25 A30 240V	201	2.75	2CSR275080R3325	DS201 M B32 AC300	220	3.2
2CSR255480R3104	DS201 C10 APR300	201	0.9	2CSR275080R1165	DS201 M B16 AC30	201	1.65
2CSR255488R1205	DS201T B20 APR30	201	1.8	2CSR275080R1164	DS201 M C16 AC30	201	1.65
2CSR255190R1134	DS201T C13 A30 240V	201	1.25	2CSR275080R3204	DS201 M C20 AC300	201	1.8
2CSR255482R1164	DS201 C16 G30	201	1.65	2CSR275080R1405	DS201 M B40 AC30	220	2.5
2CSR255488R1204	DS201T C20 APR30	201	1.8	2CSR275080R3205	DS201 M B20 AC300	201	1.8
2CSR255488R1105	DS201T B10 APR30	201	0.9	2CSR275080R1404	DS201 M C40 AC30	220	2.5
2CSR255482R1165	DS201 B16 G30	201	1.65	2CSR275080R2404	DS201 M C40 AC100	220	2.5
2CSR255488R1325	DS201T B32 APR30	220	3.2	2CSR275080R1205	DS201 M B20 AC30	201	1.8
2CSR255480R3164	DS201 C16 APR300	201	1.65	2CSR275080R2405	DS201 M B40 AC100	220	2.5
2CSR255488R1065	DS201T B6 APR30	201	1.2	2CSR275080R3254	DS201 M C25 AC300	201	2.75
2CSR255488R1104	DS201T C10 APR30	201	0.9	2CSR275080R1325	DS201 M B32 AC30	220	3.2
2CSR255488R1064	DS201T C6 APR30	201	1.2	2CSR275080R1204	DS201 M C20 AC30	201	1.8
2CSR255488R1324	DS201T C32 APR30	220	3.2	2CSR275080R3255	DS201 M B25 AC300	201	2.75
2CSR255482R1105	DS201 B10 G30	201	0.9	2CSR275080R3134	DS201 M C13 AC300	201	1.25
2CSR255488R1254	DS201T C25 APR30	201	2.75	2CSR275080R1324	DS201 M C32 AC30	220	3.2
2CSR255482R1104	DS201 C10 G30	201	0.9	2CSR275080R3135	DS201 M B13 AC300	201	1.25
2CSR255488R1135	DS201T B13 APR30	201	1.25	2CSR275080R2065	DS201 M B6 AC100	201	1.2
2CSR255488R1134	DS201T C13 APR30	201	1.25	2CSR275080R3064	DS201 M C6 AC300	201	1.2
2CSR255488R1255	DS201T B25 APR30	201	2.75	2CSR275080R2064	DS201 M C6 AC100	201	1.2
2CSR255488R1165	DS201T B16 APR30	201	1.65	2CSR275080R3065	DS201 M B6 AC300	201	1.2
2CSR255488R1164	DS201T C16 APR30	201	1.65	2CSR275080R3164	DS201 M C16 AC300	201	1.65
2CSR275080R2105	DS201 M B10 AC100	201	0.9	2CSR275080R2165	DS201 M B16 AC100	201	1.65
2CSR275080R2104	DS201 M C10 AC100	201	0.9	2CSR275080R3165	DS201 M B16 AC300	201	1.65
2CSR275080R1135	DS201 M B13 AC30	201	1.25	2CSR275086R1134	DS201 M C13 AC30 240V	201	1.25
2CSR275080R2325	DS201 M B32 AC100	220	3.2	2CSR275080R2164	DS201 M C16 AC100	201	1.65
2CSR275080R1255	DS201 M B25 AC30	201	2.75	2CSR275080R1065	DS201 M B6 AC30	201	1.2
2CSR275080R2324	DS201 M C32 AC100	220	3.2	2CSR275086R1254	DS201 M C25 AC30 240V	201	2.75
2CSR275080R1134	DS201 M C13 AC30	201	1.25	2CSR275086R1204	DS201 M C20 AC30 240V	201	1.8
2CSR275080R3404	DS201 M C40 AC300	220	2.5	2CSR275080R1064	DS201 M C6 AC30	201	1.2
2CSR275080R1254	DS201 M C25 AC30	201	2.75	2CSR275086R1164	DS201 M C16 AC30 240V	201	1.65
2CSR275080R3405	DS201 M B40 AC300	220	2.5	2CSR275086R1104	DS201 M C10 AC30 240V	201	0.9

## Extrapolation Factors

Product Code	Product Name	Weight [g]	Average power loss [W]	Product Code	Product Name	Weight [g]	Average power loss [W]
2CSR275086R1064	DS201 M C6 AC30 240V	201	1.2	2CSR275180R3165	DS201 M B16 A300	201	1.65
2CSR275086R1404	DS201 M C40 AC30 240V	220	2.5	2CSR275189R1404	DS201 M C40 A30 110V	220	2.5
2CSR275086R1324	DS201 M C32 AC30 240V	220	3.2	2CSR275180R3164	DS201 M C16 A300	201	1.65
2CSR275180R1104	DS201 M C10 A30	201	0.9	2CSR275189R1405	DS201 M B40 A30 110V	220	2.5
2CSR275180R1105	DS201 M B10 A30	201	0.9	2CSR275180R1255	DS201 M B25 A30	201	2.75
2CSR275180R0105	DS201 M B10 A10	201	0.9	2CSR275180R3255	DS201 M B25 A300	201	2.75
2CSR275180R0104	DS201 M C10 A10	201	0.9	2CSR275189U1104	DS201 M C10 A30 110V	201	0.9
2CSR275180R1204	DS201 M C20 A30	201	1.8	2CSR275180R2104	DS201 M C10 A100	201	0.9
2CSR275180R0165	DS201 M B16 A10	201	1.65	2CSR275180R3134	DS201 M C13 A300	201	1.25
2CSR275180R0164	DS201 M C16 A10	201	1.65	2CSR275180R2105	DS201 M B10 A100	201	0.9
2CSR275180R1134	DS201 M C13 A30	201	1.25	2CSR275189U1105	DS201 M B10 A30 110V	201	0.9
2CSR275180R1135	DS201 M B13 A30	201	1.25	2CSR275180R2107	DS201 M K10 A100	201	0.9
2CSR275180R1064	DS201 M C6 A30	201	1.2	2CSR275180R3254	DS201 M C25 A300	201	2.75
2CSR275180R1065	DS201 M B6 A30	201	1.2	2CSR275189R1104	DS201 M C10 A30 110V	201	0.9
2CSR275180R1164	DS201 M C16 A30	201	1.65	2CSR275480R1134	DS201 M C13 APR30	201	1.25
2CSR275180R1165	DS201 M B16 A30	201	1.65	2CSR275180R2324	DS201 M C32 A100	220	3.2
2CSR275180R1044	DS201 M C4 A30	201	1.1	2CSR275189R1105	DS201 M B10 A30 110V	201	0.9
2CSR275180R1405	DS201 M B40 A30	220	2.5	2CSR275480R1104	DS201 M C10 APR30	201	0.9
2CSR275180R1404	DS201 M C40 A30	220	2.5	2CSR275180R3135	DS201 M B13 A300	201	1.25
2CSR275180R2404	DS201 M C40 A100	220	2.5	2CSR275180R3064	DS201 M C6 A300	201	1.2
2CSR275180R1324	DS201 M C32 A30	220	3.2	2CSR275189R1135	DS201 M B13 A30 110V	201	1.25
2CSR275180U1165	DS201 M B16 A30	201	1.65	2CSR275180R2325	DS201 M B32 A100	220	3.2
2CSR275180R1325	DS201 M B32 A30	220	3.2	2CSR275189U1204	DS201 M C20 A30 110V	201	1.8
2CSR275180U1164	DS201 M C16 A30	201	1.65	2CSR275180R3065	DS201 M B6 A300	201	1.2
2CSR275180R1205	DS201 M B20 A30	201	1.8	2CSR275189R1134	DS201 M C13 A30 110V	201	1.25
2CSR275180R3404	DS201 M C40 A300	220	2.5	2CSR275180R2204	DS201 M C20 A100	201	1.8
2CSR275180R2064	DS201 M C6 A100	201	1.2	2CSR275189U1205	DS201 M B20 A30 110V	201	1.8
2CSR275180R3405	DS201 M B40 A300	220	2.5	2CSR275180R3325	DS201 M B32 A300	220	3.2
2CSR275180R2065	DS201 M B6 A100	201	1.2	2CSR275180R2205	DS201 M B20 A100	201	1.8
2CSR275189R1165	DS201 M B16 A30 110V	201	1.65	2CSR275480R1064	DS201 M C6 APR30	201	1.2
2CSR275189R1164	DS201 M C16 A30 110V	201	1.65	2CSR275189R1255	DS201 M B25 A30 110V	201	2.75
2CSR275180R2407	DS201 M K40 A100	220	2.5	2CSR275180R2327	DS201 M K32 A100	220	3.2
2CSR275180R2067	DS201 M K6 A100	201	1.2	2CSR275189U1164	DS201 M C16 A30 110V	201	1.65
2CSR275189R1065	DS201 M B6 A30 110V	201	1.2	2CSR275180R3204	DS201 M C20 A300	201	1.8
2CSR275180R2405	DS201 M B40 A100	220	2.5	2CSR275189R1254	DS201 M C25 A30 110V	201	2.75
2CSR275180R2164	DS201 M C16 A100	201	1.65	2CSR275180R2207	DS201 M K20 A100	201	1.8
2CSR275180U1105	DS201 M B10 A30	201	0.9	2CSR275189U1165	DS201 M B16 A30 110V	201	1.65
2CSR275189R1064	DS201 M C6 A30 110V	201	1.2	2CSR275180R3324	DS201 M C32 A300	220	3.2
2CSR275180R2165	DS201 M B16 A100	201	1.65	2CSR275189U1065	DS201 M B6 A30 110V	201	1.2
2CSR275180U1104	DS201 M C10 A30	201	0.9	2CSR275189U1154	DS201 M C15 A30 110V	201	1.65
2CSR275189U1064	DS201 M C6 A30 110V	201	1.2	2CSR275180R3205	DS201 M B20 A300	201	1.8
2CSR275180R2167	DS201 M K16 A100	201	1.65	2CSR275189R1325	DS201 M B32 A30 110V	220	3.2
2CSR275180R1254	DS201 M C25 A30	201	2.75	2CSR275180R2254	DS201 M C25 A100	201	2.75

## Extrapolation Factors

Product Code	Product Name	Weight [g]	Average power loss [W]	Product Code	Product Name	Weight [g]	Average power loss [W]
2CSR275180R3105	DS201 M B10 A300	201	0.9	2CSR275480R3254	DS201 M C25 APR300	201	2.75
2CSR275189R1205	DS201 M B20 A30 110V	201	1.8	2CSR275480R1164	DS201 M C16 APR30	201	1.65
2CSR275180R2255	DS201 M B25 A100	201	2.75	2CSR275482R1325	DS201 M B32 G30	220	3.2
2CSR275180R3104	DS201 M C10 A300	201	0.9	2CSR275482R1324	DS201 M C32 G30	220	3.2
2CSR275180R2135	DS201 M B13 A100	201	1.25	2CSR275480R2254	DS201 M C25 APR100	201	2.75
2CSR275189R1204	DS201 M C20 A30 110V	201	1.8	2CSR275580R0104	DS201 M C10 F10	201	0.9
2CSR275186R1064	DS201 M C6 A30 240V	201	1.2	2CSR275480R2134	DS201 M C13 APR100	201	1.25
2CSR275180R2257	DS201 M K25 A100	201	2.75	2CSR275580R0105	DS201 M B10 F10	201	0.9
2CSR275189R1324	DS201 M C32 A30 110V	220	3.2	2CSR275480R3104	DS201 M C10 APR300	201	0.9
2CSR275186R1044	DS201 M C4 A30 240V	201	1.1	2CSR275482R3204	DS201 M C20 G300	201	1.8
2CSR275186R1134	DS201 M C13 A30 240V	201	1.25	2CSR275482R1204	DS201 M C20 G30	201	1.8
2CSR275180R2137	DS201 M K13 A100	201	1.25	2CSR275480R3324	DS201 M C32 APR300	220	3.2
2CSR275180U1254	DS201 M C25 A30	201	2.75	2CSR275482R3325	DS201 M B32 G300	220	3.2
2CSR275186R1254	DS201 M C25 A30 240V	201	2.75	2CSR275482R3205	DS201 M B20 G300	201	1.8
2CSR275180U1065	DS201 M B6 A30	201	1.2	2CSR275480R3204	DS201 M C20 APR300	201	1.8
2CSR275186R1104	DS201 M C10 A30 240V	201	0.9	2CSR275482R1135	DS201 M B13 G30	201	1.25
2CSR275480R1254	DS201 M C25 APR30	201	2.75	2CSR275482R3324	DS201 M C32 G300	220	3.2
2CSR275180U3204	DS201 M C20 A300	201	1.8	2CSR275482R1134	DS201 M C13 G30	201	1.25
2CSR275186R1404	DS201 M C40 A30 240V	220	2.5	2CSR275482R1255	DS201 M B25 G30	201	2.75
2CSR275480R2104	DS201 M C10 APR100	201	0.9	2CSR275480R3064	DS201 M C6 APR300	201	1.2
2CSR275180U1324	DS201 M C32 A30	220	3.2	2CSR275482R1254	DS201 M C25 G30	201	2.75
2CSR275186R1204	DS201 M C20 A30 240V	201	1.8	2CSR275482R1164	DS201 M C16 G30	201	1.65
2CSR275480R2324	DS201 M C32 APR100	220	3.2	2CSR275580R1064	DS201 M C6 F30	201	1.2
2CSR275186R1324	DS201 M C32 A30 240V	220	3.2	2CSR275482R1165	DS201 M B16 G30	201	1.65
2CSR275480R2204	DS201 M C20 APR100	201	1.8	2CSR275580R1065	DS201 M B6 F30	201	1.2
2CSR275580R1134	DS201 M C13 F30	201	1.25	2CSR275480R3164	DS201 M C16 APR300	201	1.65
2CSR275580R0165	DS201 M B16 F10	201	1.65	2CSR275482R3134	DS201 M C13 G300	201	1.25
2CSR275186R1164	DS201 M C16 A30 240V	201	1.65	2CSR275480R1404	DS201 M C40 APR30	220	2.5
2CSR275480R3404	DS201 M C40 APR300	220	2.5	2CSR275482R3255	DS201 M B25 G300	201	2.75
2CSR275580R1135	DS201 M B13 F30	201	1.25	2CSR275482R1104	DS201 M C10 G30	201	0.9
2CSR275189R1154	DS201 M C15 A30 110V	201	1.65	2CSR275482R3135	DS201 M B13 G300	201	1.25
2CSR275480R1204	DS201 M C20 APR30	201	1.8	2CSR275482R1105	DS201 M B10 G30	201	0.9
2CSR275580R0164	DS201 M C16 F10	201	1.65	2CSR275482R3254	DS201 M C25 G300	201	2.75
2CSR275480R1324	DS201 M C32 APR30	220	3.2	2CSR275580R1164	DS201 M C16 F30	201	1.65
2CSR275480R2404	DS201 M C40 APR100	220	2.5	2CSR275482R3165	DS201 M B16 G300	201	1.65
2CSR275580R0134	DS201 M C13 F10	201	1.25	2CSR275482R3164	DS201 M C16 G300	201	1.65
2CSR275480R2064	DS201 M C6 APR100	201	1.2	2CSR275580R1405	DS201 M B40 F30	220	2.5
2CSR275580R0135	DS201 M B13 F10	201	1.25	2CSR275580R1404	DS201 M C40 F30	220	2.5
2CSR275580R1105	DS201 M B10 F30	201	0.9	2CSR275580R1255	DS201 M B25 F30	201	2.75
2CSR275480R3134	DS201 M C13 APR300	201	1.25	2CSR275580R1254	DS201 M C25 F30	201	2.75
2CSR275580R1104	DS201 M C10 F30	201	0.9	2CSR275580R1204	DS201 M C20 F30	201	1.8
2CSR275480R2164	DS201 M C16 APR100	201	1.65	2CSR275580R1325	DS201 M B32 F30	220	3.2
2CSR275482R1205	DS201 M B20 G30	201	1.8	2CSR275580R1324	DS201 M C32 F30	220	3.2

## Extrapolation Factors

Product Code	Product Name	Weight [g]	Average power loss [W]	Product Code	Product Name	Weight [g]	Average power loss [W]
2CSR275580R1205	DS201 M B20 F30	201	1.8				
2CSR275580R1165	DS201 M B16 F30	201	1.65				

## 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

### Waste category indicators

HWD	Hazardous waste disposed
N-HWD	Non-hazardous waste disposed
RWD	Radioactive waste disposed

### Output flow indicators

CfRu	Components for re-use
MfR	Materials for recycling
MfER	Materials for energy recovery
EE	Exported Energy

### Optional indicators

Tot PE	Total use of primary energy during the life cycle
Efp	Emissions of Fine particles
IrHH	Ionizing radiation, human health
ETX FW	Ecotoxicity, freshwater
HTX CE	Human toxicity, carcinogenic effects
HTX N-CE	Human toxicity, non-carcinogenic effects
IrLS	Impact related to Land use / soil quality



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