

S300P: 1 -4 poles, B-, C-, D-, K-, Z-characteristic: 0.2 - 63 A
M300P: 1 -4 poles, D-characteristic: 0.5 - 63 A

PEP ecopassport®

Product Environmental Profile



Registration number:	AB8G-00142-V02.01-EN	Drafting rules:	PCR-ed4-EN-2021.09.06
		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:	November-25	Validity period:	5 years
Independent verification of the declaration and data in compliance with ISO 14025:2006			
Internal:	<input type="checkbox"/>	External:	<input checked="" type="checkbox"/>
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (Ddemail)			
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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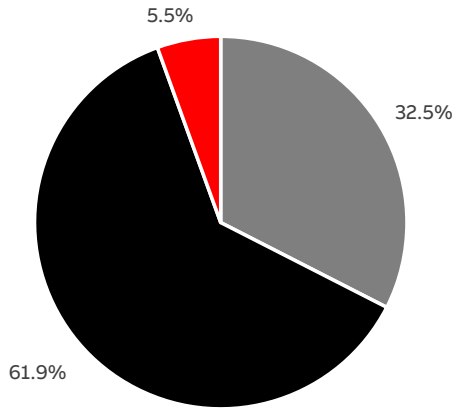


General information

Reference product	Reference product identification: MCB S301P-C16, 2CDS381001R0164 PSR product category: Circuit Breaker
Description of the product	S300P and M300P MCBs are designed to be used in installations where high breaking capacities are required to protect against short-circuits.
Functional unit	Protect the industrial installation from overloads and short circuits in a circuit with rated voltage 240V AC, rated current 16 A, with 1 pole, a rated breaking capacity 25kA, and the tripping curve C, according to the appropriate use scenario, and during the reference service life of the product of 20 years.
Other products covered	Other products of the series cover rated currents from 0.2 A to 63 A and between 1 and 4 poles for B, C, D, K and Z characteristic. They differ regarding weight of the devices and power consumption. To obtain the environmental impacts of the different variants, the value of the life cycle phase of the reference product is multiplied with the extrapolation factor for that phase.
Manufacturing address	Manufacturing address www.new.abb.com



Constituent Materials



■ Plastics 42.1 g ■ Metals 80.2 g ■ Others 7.2 g

Total weight of reference product and packaging

129.6

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%
GFRP	29.2	Steel	46.1	Cardboard	5.5
Other plastic	3.3	Copper	12.5	Other nec	0.0
		Copper alloys	1.7		
		Aluminium	1.6		
		Other metals	0.0		



Additional Information

Manufacturing	The product is assembled in Bulgaria and finalised in Germany. The production sites are certified according to ISO 14001.
Distribution	Default scenario for intracontinental transport is applied.
Installation	As installation is performed manually, no environmental burdens are associated to this phase besides the disposal of product packaging.
Use	Use in Europe.
End of life	Due to the lack of knowledge of the disposal pathway, landfilling as proposed standard scenario in the PCR is considered.
Benefits and loads beyond the system boundaries	Not considered.



Environmental Impacts

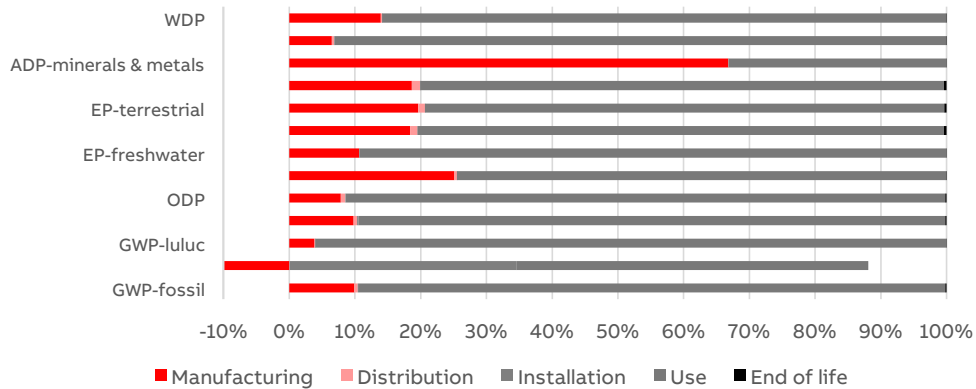
Reference lifetime	20 years
Product category	Electrical switchgear and control gear solutions (Circuit breaker)
Installation elements	Does not require any special installation elements.
Use scenario	The scenario is modelled with a use rate of 30% and a load rate of 50%.
Geographical representativeness	Europe
Technological representativeness	Represents the actual production technology of the MCB series S300P and M300P. The reference year is 2024.
Software and database used	SimaPro 10.2.0.3 with ecoinvent 3.11, cut-off and industry data 2.0

Energy model used

Manufacturing	Electricity, medium voltage [BG] market for electricity, medium voltage Cut-off, S, site specific mix for Heidelberg, Germany
Installation	global
Use	Electricity, low voltage [RER] market group for electricity, low voltage Cut-off, S
End of life	global

Common base of mandatory indicators

% Environmental Impact per Life Cycle Stage of Reference Product



Environmental impact indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Benefits	
GWP	Total	kg CO2 eq.	8.27E+00	8.08E-01	4.76E-02	1.27E-02	7.39E+00	1.73E-02	---
	Fossil	kg CO2 eq.	8.23E+00	8.11E-01	4.75E-02	5.64E-04	7.35E+00	1.73E-02	---
	Biogenic	kg CO2 eq.	2.66E-02	-4.18E-03	1.20E-05	1.21E-02	1.87E-02	5.10E-06	---
	Luluc	kg CO2 eq.	2.26E-02	8.70E-04	1.72E-05	1.89E-07	2.17E-02	5.22E-06	---
ODP		kg CFC-11 eq.	1.51E-07	1.19E-08	1.05E-09	7.38E-12	1.38E-07	3.11E-10	---
AP		H+ eq.	5.68E-02	1.43E-02	1.94E-04	2.50E-06	4.23E-02	6.06E-05	---
EP	Freshwater	kg P eq.	8.17E-04	8.65E-05	3.63E-07	6.37E-09	7.30E-04	1.13E-07	---
	Marine	kg N eq.	6.50E-03	1.20E-03	7.20E-05	1.22E-06	5.21E-03	2.37E-05	---
	Terrestrial	mol N eq.	7.56E-02	1.48E-02	7.91E-04	9.96E-06	5.97E-02	2.44E-04	---
POCP		kg NMVOC eq.	2.40E-02	4.47E-03	2.99E-04	3.92E-06	1.91E-02	9.26E-05	---
ADP	Minerals & metals	kg SB eq.	2.99E-04	2.00E-04	1.34E-07	2.05E-09	9.92E-05	3.81E-08	---
	Fossil	MJ	1.82E+02	1.17E+01	6.99E-01	6.04E-03	1.69E+02	2.13E-01	---
WDP		m³ eq. depr.	1.70E+00	2.36E-01	3.25E-03	9.52E-05	1.46E+00	1.77E-03	---

Resource use indicators

Indicator	Unit	Total	Manu- facturing	Distribution	Installation	Use	End of life	Benefits
PERE	MJ	4.63E+01	1.21E+00	1.05E-02	2.11E-04	4.50E+01	3.14E-03	---
PERM	MJ	9.17E-02	9.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	---
PERT	MJ	4.64E+01	1.30E+00	1.05E-02	2.11E-04	4.50E+01	3.14E-03	---
PENRE	MJ	1.81E+02	1.07E+01	7.00E-01	6.04E-03	1.69E+02	2.13E-01	---
PENRM	MJ	1.01E+00	1.01E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	---
PENRT	MJ	1.82E+02	1.17E+01	7.00E-01	6.04E-03	1.69E+02	2.13E-01	---

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	1.64E-02	1.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	---
RSF	MJ	0.00E+00	N/A	N/A	N/A	N/A	N/A	---
NRSF	MJ	0.00E+00	N/A	N/A	N/A	N/A	N/A	---
FW	m ³	1.17E-01	6.86E-03	9.39E-05	2.56E-06	1.10E-01	5.06E-05	---

Waste category indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
HWD	kg	3.27E-01	1.28E-01	7.23E-04	2.63E-05	1.99E-01	2.23E-04	---
N-HWD	kg	3.31E+00	1.50E+00	6.74E-03	2.74E-03	1.63E+00	1.79E-01	---
RWD	kg	3.08E-03	3.88E-05	4.72E-07	1.20E-08	3.04E-03	1.39E-07	---

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	---
MfR	kg	2.23E-02	1.64E-02	0.00E+00	5.91E-03	0.00E+00	0.00E+00	---
MfER	kg	2.78E-03	2.12E-03	0.00E+00	6.57E-04	0.00E+00	0.00E+00	---
EE	MJ	2.85E-02	2.45E-02	0.00E+00	4.01E-03	0.00E+00	0.00E+00	---

Other indicators

Indicator		Unit	Total
Biogenic Carbon	Product	kg of C	0.00E+00
	Packaging	kg of C	3.03E-03
Environmental Cost		€	0.00E+00

Optional indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
Tot PE	MJ	2.28E+02	1.30E+01	7.10E-01	6.25E-03	2.14E+02	2.16E-01	---
Efp	Dise inc	1.99E-07	6.31E-08	4.90E-09	4.85E-11	1.29E-07	1.49E-09	---
IrHH	kBq U-235 eq	1.55E+00	5.63E-02	2.89E-04	6.29E-06	1.50E+00	8.57E-05	---
ETX FW	CTUe	4.28E+01	1.81E+01	8.20E-02	2.95E-02	2.42E+01	4.40E-01	---
HTX CE	CTUh	3.96E-09	1.91E-09	7.81E-12	2.07E-13	2.04E-09	2.52E-12	---
HTX N-CE	CTUh	2.73E-07	1.58E-07	4.51E-10	1.11E-11	1.15E-07	1.76E-10	---
IrLS	Pt	4.07E+01	6.62E+00	7.04E-01	3.18E-03	3.31E+01	2.44E-01	---

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
S301P-B6	1.02	1.02	1.02	0.60	1.02	---
S301P-B8	0.99	0.99	0.99	0.93	0.99	---
S301P-B10	1.00	1.00	1.00	0.82	1.00	---
S301P-B13	1.01	1.01	1.01	0.94	1.01	---
S301P-B16	1.00	1.00	1.00	1.00	1.00	---
S301P-B20	1.01	1.01	1.01	1.35	1.01	---
S301P-B25	1.01	1.01	1.01	1.35	1.01	---
S301P-B32	1.06	1.06	1.06	1.71	1.06	---
S301P-B40	1.09	1.09	1.09	1.71	1.09	---
S301P-B50	1.10	1.10	1.10	2.18	1.10	---
S301P-B63	1.08	1.08	1.08	3.53	1.08	---
S301P-C0,5	1.00	1.00	1.00	0.78	1.00	---
S301P-C1	1.01	1.01	1.01	0.84	1.01	---
S301P-C1,6	1.01	1.01	1.01	0.79	1.01	---
S301P-C2	1.03	1.03	1.03	0.81	1.03	---
S301P-C3	1.00	1.00	1.00	0.81	1.00	---
S301P-C4	1.02	1.02	1.02	0.83	1.02	---
S301P-C6	0.98	0.98	0.98	0.52	0.98	---
S301P-C8	0.98	0.98	0.98	0.93	0.98	---
S301P-C10	0.98	0.98	0.98	0.85	0.98	---
S301P-C13	1.00	1.00	1.00	0.76	1.00	---
S301P-C16	1.00	1.00	1.00	1.00	1.00	---
S301P-C20	1.01	1.01	1.01	1.35	1.01	---
S301P-C25	1.02	1.02	1.02	1.35	1.02	---
S301P-C32	1.06	1.06	1.06	1.71	1.06	---
S301P-C40	1.09	1.09	1.09	1.71	1.09	---
S301P-C50	1.09	1.09	1.09	2.18	1.09	---
S301P-C63	1.08	1.08	1.08	3.29	1.08	---
S301P-D0,5	1.01	1.01	1.01	0.75	1.01	---
S301P-D1	1.01	1.01	1.01	0.76	1.01	---
S301P-D1,6	1.02	1.02	1.02	0.75	1.02	---
S301P-D2	0.99	0.99	0.99	0.79	0.99	---
S301P-D3	1.02	1.02	1.02	0.75	1.02	---
S301P-D4	1.02	1.02	1.02	0.83	1.02	---
S301P-D6	0.96	0.96	0.96	0.47	0.96	---
S301P-D8	0.97	0.97	0.97	0.80	0.97	---
S301P-D10	1.00	1.00	1.00	0.71	1.00	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
S301P-D13	1.00	1.00	1.00	0.76	1.00	---
S301P-D16	1.01	1.01	1.01	0.94	1.01	---
S301P-D20	1.01	1.01	1.01	1.35	1.01	---
S301P-D25	1.02	1.02	1.02	1.35	1.02	---
S301P-D32	1.03	1.03	1.03	1.71	1.03	---
S301P-D40	1.09	1.09	1.09	1.71	1.09	---
S301P-D50	1.05	1.05	1.05	2.00	1.05	---
S301P-D63	1.08	1.08	1.08	3.53	1.08	---
S301P-K0,2	1.00	1.00	1.00	0.66	1.00	---
S301P-K0,3	1.00	1.00	1.00	0.67	1.00	---
S301P-K0,5	1.01	1.01	1.01	0.75	1.01	---
S301P-K0,75	1.01	1.01	1.01	0.66	1.01	---
S301P-K1	1.01	1.01	1.01	0.76	1.01	---
S301P-K1,6	1.03	1.03	1.03	0.75	1.03	---
S301P-K2	1.00	1.00	1.00	0.79	1.00	---
S301P-K3	1.02	1.02	1.02	0.75	1.02	---
S301P-K4	1.02	1.02	1.02	0.83	1.02	---
S301P-K6	0.98	0.98	0.98	0.95	0.98	---
S301P-K8	0.97	0.97	0.97	0.72	0.97	---
S301P-K10	1.00	1.00	1.00	0.79	1.00	---
S301P-K13	1.00	1.00	1.00	1.06	1.00	---
S301P-K16	1.01	1.01	1.01	0.82	1.01	---
S301P-K20	1.01	1.01	1.01	1.24	1.01	---
S301P-K25	1.02	1.02	1.02	1.88	1.02	---
S301P-K32	1.06	1.06	1.06	1.71	1.06	---
S301P-K40	1.09	1.09	1.09	2.00	1.09	---
S301P-K50	1.07	1.07	1.07	2.29	1.07	---
S301P-K63	1.08	1.08	1.08	3.53	1.08	---
S301P-Z0,5	1.01	1.01	1.01	1.26	1.01	---
S301P-Z1	1.01	1.01	1.01	1.29	1.01	---
S301P-Z1,6	1.01	1.01	1.01	1.42	1.01	---
S301P-Z2	1.02	1.02	1.02	1.27	1.02	---
S301P-Z3	1.02	1.02	1.02	1.31	1.02	---
S301P-Z4	1.00	1.00	1.00	1.29	1.00	---
S301P-Z6	1.01	1.01	1.01	1.45	1.01	---
S301P-Z8	1.00	1.00	1.00	1.06	1.00	---
S301P-Z10	1.01	1.01	1.01	1.18	1.01	---
S301P-Z16	1.01	1.01	1.01	1.18	1.01	---
S301P-Z20	1.03	1.03	1.03	1.47	1.03	---
S301P-Z25	1.03	1.03	1.03	1.94	1.03	---
S301P-Z32	1.09	1.09	1.09	1.82	1.09	---
S301P-Z40	1.08	1.08	1.08	2.88	1.08	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
S301P-Z50	1.08	1.08	1.08	3.06	1.08	---
S301P-Z63	1.08	1.08	1.08	3.53	1.08	---
S301P-B6NA	1.99	1.99	1.99	1.22	1.99	---
S301P-B8NA	1.95	1.95	1.95	1.86	1.95	---
S301P-B10NA	1.96	1.96	1.96	1.65	1.96	---
S301P-B13NA	1.98	1.98	1.98	2.24	1.98	---
S301P-B16NA	1.97	1.97	1.97	1.88	1.97	---
S301P-B20NA	1.98	1.98	1.98	2.35	1.98	---
S301P-B25NA	1.99	1.99	1.99	3.88	1.99	---
S301P-B32NA	2.07	2.07	2.07	3.88	2.07	---
S301P-B40NA	2.12	2.12	2.12	3.76	2.12	---
S301P-B50NA	2.10	2.10	2.10	4.24	2.10	---
S301P-B63NA	2.08	2.08	2.08	7.06	2.08	---
S301P-C0,5NA	1.98	1.98	1.98	1.56	1.98	---
S301P-C1NA	1.97	1.97	1.97	1.69	1.97	---
S301P-C1,6NA	1.98	1.98	1.98	1.59	1.98	---
S301P-C2NA	1.99	1.99	1.99	1.61	1.99	---
S301P-C3NA	1.97	1.97	1.97	1.62	1.97	---
S301P-C4NA	1.98	1.98	1.98	1.66	1.98	---
S301P-C6NA	1.96	1.96	1.96	1.07	1.96	---
S301P-C8NA	1.94	1.94	1.94	1.86	1.94	---
S301P-C10NA	1.93	1.93	1.93	1.71	1.93	---
S301P-C13NA	1.96	1.96	1.96	1.65	1.96	---
S301P-C16NA	1.96	1.96	1.96	1.88	1.96	---
S301P-C20NA	1.97	1.97	1.97	2.35	1.97	---
S301P-C25NA	1.98	1.98	1.98	3.88	1.98	---
S301P-C32NA	2.06	2.06	2.06	3.88	2.06	---
S301P-C40NA	2.11	2.11	2.11	3.76	2.11	---
S301P-C50NA	2.09	2.09	2.09	4.24	2.09	---
S301P-C63NA	2.07	2.07	2.07	6.59	2.07	---
S301P-D0,5NA	1.98	1.98	1.98	1.50	1.98	---
S301P-D1NA	1.98	1.98	1.98	1.53	1.98	---
S301P-D1,6NA	2.00	2.00	2.00	1.50	2.00	---
S301P-D2NA	1.97	1.97	1.97	1.57	1.97	---
S301P-D3NA	1.99	1.99	1.99	1.50	1.99	---
S301P-D4NA	1.98	1.98	1.98	1.66	1.98	---
S301P-D6NA	1.94	1.94	1.94	0.95	1.94	---
S301P-D8NA	1.93	1.93	1.93	1.59	1.93	---
S301P-D10NA	1.95	1.95	1.95	1.41	1.95	---
S301P-D13NA	1.97	1.97	1.97	1.65	1.97	---
S301P-D16NA	1.97	1.97	1.97	1.53	1.97	---
S301P-D20NA	1.97	1.97	1.97	2.35	1.97	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
S301P-D25NA	1.98	1.98	1.98	3.88	1.98	---
S301P-D32NA	2.06	2.06	2.06	3.88	2.06	---
S301P-D40NA	2.13	2.13	2.13	3.76	2.13	---
S301P-D50NA	2.08	2.08	2.08	4.00	2.08	---
S301P-D63NA	2.10	2.10	2.10	7.06	2.10	---
S301P-K0,2NA	1.99	1.99	1.99	1.32	1.99	---
S301P-K0,3NA	1.97	1.97	1.97	1.33	1.97	---
S301P-K0,5NA	1.99	1.99	1.99	1.50	1.99	---
S301P-K0,75NA	1.98	1.98	1.98	1.33	1.98	---
S301P-K1NA	1.99	1.99	1.99	1.53	1.99	---
S301P-K1,6NA	2.00	2.00	2.00	1.50	2.00	---
S301P-K2NA	1.98	1.98	1.98	1.57	1.98	---
S301P-K3NA	2.00	2.00	2.00	1.50	2.00	---
S301P-K4NA	1.99	1.99	1.99	1.66	1.99	---
S301P-K6NA	1.93	1.93	1.93	1.91	1.93	---
S301P-K8NA	1.94	1.94	1.94	1.43	1.94	---
S301P-K10NA	1.96	1.96	1.96	0.72	1.96	---
S301P-K13NA	1.98	1.98	1.98	1.76	1.98	---
S301P-K16NA	1.98	1.98	1.98	1.53	1.98	---
S301P-K20NA	1.98	1.98	1.98	2.82	1.98	---
S301P-K25NA	1.98	1.98	1.98	3.18	1.98	---
S301P-K32NA	2.07	2.07	2.07	2.82	2.07	---
S301P-K40NA	2.12	2.12	2.12	4.35	2.12	---
S301P-K50NA	2.09	2.09	2.09	4.59	2.09	---
S301P-K63NA	2.10	2.10	2.10	7.06	2.10	---
S301P-Z0,5NA	1.99	1.99	1.99	2.53	1.99	---
S301P-Z1NA	1.98	1.98	1.98	2.58	1.98	---
S301P-Z1,6NA	1.98	1.98	1.98	2.85	1.98	---
S301P-Z2NA	1.98	1.98	1.98	2.54	1.98	---
S301P-Z3NA	1.98	1.98	1.98	2.62	1.98	---
S301P-Z4NA	1.98	1.98	1.98	2.57	1.98	---
S301P-Z6NA	1.96	1.96	1.96	2.90	1.96	---
S301P-Z8NA	1.97	1.97	1.97	2.12	1.97	---
S301P-Z10NA	1.97	1.97	1.97	2.09	1.97	---
S301P-Z16NA	1.99	1.99	1.99	2.82	1.99	---
S301P-Z20NA	2.01	2.01	2.01	3.06	2.01	---
S301P-Z25NA	2.02	2.02	2.02	3.29	2.02	---
S301P-Z32NA	2.10	2.10	2.10	3.06	2.10	---
S301P-Z40NA	2.12	2.12	2.12	4.35	2.12	---
S301P-Z50NA	2.09	2.09	2.09	6.12	2.09	---
S301P-Z63NA	2.09	2.09	2.09	7.06	2.09	---
S302P-B6	2.05	2.05	2.05	1.22	2.05	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
S302P-B8	1.97	1.97	1.97	1.86	1.97	---
S302P-B10	1.99	1.99	1.99	1.65	1.99	---
S302P-B13	2.03	2.03	2.03	2.24	2.03	---
S302P-B16	2.01	2.01	2.01	1.88	2.01	---
S302P-B20	2.02	2.02	2.02	2.35	2.02	---
S302P-B25	2.04	2.04	2.04	3.88	2.04	---
S302P-B32	2.08	2.08	2.08	3.88	2.08	---
S302P-B40	2.17	2.17	2.17	3.76	2.17	---
S302P-B50	2.15	2.15	2.15	4.24	2.15	---
S302P-B63	2.12	2.12	2.12	7.06	2.12	---
S302P-C0,5	2.00	2.00	2.00	1.56	2.00	---
S302P-C1	1.99	1.99	1.99	1.69	1.99	---
S302P-C1,6	2.02	2.02	2.02	1.59	2.02	---
S302P-C2	2.04	2.04	2.04	1.61	2.04	---
S302P-C3	1.99	1.99	1.99	1.62	1.99	---
S302P-C4	2.02	2.02	2.02	1.66	2.02	---
S302P-C6	2.00	2.00	2.00	1.07	2.00	---
S302P-C8	1.96	1.96	1.96	1.86	1.96	---
S302P-C10	1.95	1.95	1.95	1.71	1.95	---
S302P-C13	1.99	1.99	1.99	1.65	1.99	---
S302P-C16	2.00	2.00	2.00	1.88	2.00	---
S302P-C20	2.01	2.01	2.01	2.35	2.01	---
S302P-C25	2.03	2.03	2.03	3.88	2.03	---
S302P-C32	2.07	2.07	2.07	3.88	2.07	---
S302P-C40	2.16	2.16	2.16	3.76	2.16	---
S302P-C50	2.14	2.14	2.14	4.24	2.14	---
S302P-C63	2.11	2.11	2.11	6.59	2.11	---
S302P-D0,5	2.00	2.00	2.00	1.50	2.00	---
S302P-D1	2.02	2.02	2.02	1.53	2.02	---
S302P-D1,6	2.05	2.05	2.05	1.50	2.05	---
S302P-D2	2.00	2.00	2.00	1.57	2.00	---
S302P-D3	2.04	2.04	2.04	1.50	2.04	---
S302P-D4	2.03	2.03	2.03	1.66	2.03	---
S302P-D6	1.97	1.97	1.97	0.95	1.97	---
S302P-D8	1.93	1.93	1.93	1.59	1.93	---
S302P-D10	1.98	1.98	1.98	1.41	1.98	---
S302P-D13	2.00	2.00	2.00	1.65	2.00	---
S302P-D16	2.01	2.01	2.01	1.53	2.01	---
S302P-D20	2.01	2.01	2.01	2.35	2.01	---
S302P-D25	2.03	2.03	2.03	3.88	2.03	---
S302P-D32	2.07	2.07	2.07	3.88	2.07	---
S302P-D40	2.15	2.15	2.15	3.76	2.15	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
S302P-D50	2.11	2.11	2.11	4.00	2.11	---
S302P-D63	2.12	2.12	2.12	7.06	2.12	---
S302P-K0,2	2.01	2.01	2.01	1.32	2.01	---
S302P-K0,3	1.99	1.99	1.99	1.33	1.99	---
S302P-K0,5	2.01	2.01	2.01	1.50	2.01	---
S302P-K0,75	2.00	2.00	2.00	1.33	2.00	---
S302P-K1	2.02	2.02	2.02	1.53	2.02	---
S302P-K1,6	2.05	2.05	2.05	1.50	2.05	---
S302P-K2	2.00	2.00	2.00	1.57	2.00	---
S302P-K3	2.05	2.05	2.05	1.50	2.05	---
S302P-K4	2.04	2.04	2.04	1.66	2.04	---
S302P-K6	1.94	1.94	1.94	1.91	1.94	---
S302P-K8	1.94	1.94	1.94	1.43	1.94	---
S302P-K10	1.99	1.99	1.99	0.72	1.99	---
S302P-K13	2.01	2.01	2.01	1.76	2.01	---
S302P-K16	2.02	2.02	2.02	1.53	2.02	---
S302P-K20	2.02	2.02	2.02	2.82	2.02	---
S302P-K25	2.03	2.03	2.03	3.18	2.03	---
S302P-K32	2.08	2.08	2.08	2.82	2.08	---
S302P-K40	2.17	2.17	2.17	4.35	2.17	---
S302P-K50	2.12	2.12	2.12	4.59	2.12	---
S302P-K63	2.13	2.13	2.13	7.06	2.13	---
S302P-Z0,5	2.01	2.01	2.01	2.53	2.01	---
S302P-Z1	2.00	2.00	2.00	2.58	2.00	---
S302P-Z1,6	2.00	2.00	2.00	2.85	2.00	---
S302P-Z2	2.00	2.00	2.00	2.54	2.00	---
S302P-Z3	2.00	2.00	2.00	2.62	2.00	---
S302P-Z4	2.01	2.01	2.01	2.57	2.01	---
S302P-Z6	1.99	1.99	1.99	2.90	1.99	---
S302P-Z8	1.99	1.99	1.99	2.12	1.99	---
S302P-Z10	2.01	2.01	2.01	2.09	2.01	---
S302P-Z16	2.03	2.03	2.03	2.82	2.03	---
S302P-Z20	2.07	2.07	2.07	3.06	2.07	---
S302P-Z25	2.08	2.08	2.08	3.29	2.08	---
S302P-Z32	2.15	2.15	2.15	3.06	2.15	---
S302P-Z40	2.15	2.15	2.15	4.35	2.15	---
S302P-Z50	2.13	2.13	2.13	6.12	2.13	---
S302P-Z63	2.12	2.12	2.12	7.06	2.12	---
S303P-B6	3.09	3.09	3.09	1.83	3.09	---
S303P-B8	2.96	2.96	2.96	2.80	2.96	---
S303P-B10	3.00	3.00	3.00	2.47	3.00	---
S303P-B13	3.04	3.04	3.04	3.35	3.04	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
S303P-B16	3.01	3.01	3.01	2.82	3.01	---
S303P-B20	3.03	3.03	3.03	3.53	3.03	---
S303P-B25	3.06	3.06	3.06	5.82	3.06	---
S303P-B32	3.12	3.12	3.12	5.82	3.12	---
S303P-B40	3.24	3.24	3.24	5.65	3.24	---
S303P-B50	3.22	3.22	3.22	6.35	3.22	---
S303P-B63	3.24	3.24	3.24	10.59	3.24	---
S303P-C0,5	3.00	3.00	3.00	2.34	3.00	---
S303P-C1	2.98	2.98	2.98	2.53	2.98	---
S303P-C1,6	3.03	3.03	3.03	2.38	3.03	---
S303P-C2	3.07	3.07	3.07	2.42	3.07	---
S303P-C3	2.99	2.99	2.99	2.42	2.99	---
S303P-C4	3.04	3.04	3.04	2.49	3.04	---
S303P-C6	3.02	3.02	3.02	1.60	3.02	---
S303P-C8	2.95	2.95	2.95	2.80	2.95	---
S303P-C10	2.94	2.94	2.94	2.56	2.94	---
S303P-C13	3.00	3.00	3.00	2.47	3.00	---
S303P-C16	3.00	3.00	3.00	2.82	3.00	---
S303P-C20	3.02	3.02	3.02	3.53	3.02	---
S303P-C25	3.05	3.05	3.05	5.82	3.05	---
S303P-C32	3.11	3.11	3.11	5.82	3.11	---
S303P-C40	3.23	3.23	3.23	5.65	3.23	---
S303P-C50	3.21	3.21	3.21	6.35	3.21	---
S303P-C63	3.23	3.23	3.23	9.88	3.23	---
S303P-D0,5	3.00	3.00	3.00	2.25	3.00	---
S303P-D1	3.02	3.02	3.02	2.29	3.02	---
S303P-D1,6	3.07	3.07	3.07	2.24	3.07	---
S303P-D2	3.00	3.00	3.00	2.36	3.00	---
S303P-D3	3.06	3.06	3.06	2.26	3.06	---
S303P-D4	3.05	3.05	3.05	2.49	3.05	---
S303P-D6	2.98	2.98	2.98	1.43	2.98	---
S303P-D8	2.91	2.91	2.91	2.39	2.91	---
S303P-D10	2.99	2.99	2.99	2.12	2.99	---
S303P-D13	3.00	3.00	3.00	2.47	3.00	---
S303P-D16	3.02	3.02	3.02	2.29	3.02	---
S303P-D20	3.02	3.02	3.02	3.53	3.02	---
S303P-D25	3.05	3.05	3.05	5.82	3.05	---
S303P-D32	3.11	3.11	3.11	5.82	3.11	---
S303P-D40	3.24	3.24	3.24	5.65	3.24	---
S303P-D50	3.17	3.17	3.17	6.00	3.17	---
S303P-D63	3.23	3.23	3.23	10.59	3.23	---
S303P-K0,2	3.01	3.01	3.01	1.98	3.01	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
S303P-K0,3	2.98	2.98	2.98	2.00	2.98	---
S303P-K0,5	3.01	3.01	3.01	2.25	3.01	---
S303P-K0,75	3.00	3.00	3.00	1.99	3.00	---
S303P-K1	3.03	3.03	3.03	2.29	3.03	---
S303P-K1,6	3.08	3.08	3.08	2.24	3.08	---
S303P-K2	3.01	3.01	3.01	2.36	3.01	---
S303P-K3	3.07	3.07	3.07	2.26	3.07	---
S303P-K4	3.05	3.05	3.05	2.49	3.05	---
S303P-K6	2.93	2.93	2.93	2.86	2.93	---
S303P-K8	2.93	2.93	2.93	2.15	2.93	---
S303P-K10	3.00	3.00	3.00	1.44	3.00	---
S303P-K13	3.01	3.01	3.01	2.65	3.01	---
S303P-K16	3.03	3.03	3.03	2.29	3.03	---
S303P-K20	3.03	3.03	3.03	4.24	3.03	---
S303P-K25	3.06	3.06	3.06	4.76	3.06	---
S303P-K32	3.12	3.12	3.12	4.24	3.12	---
S303P-K40	3.25	3.25	3.25	6.53	3.25	---
S303P-K50	3.18	3.18	3.18	6.88	3.18	---
S303P-K63	3.20	3.20	3.20	10.59	3.20	---
S303P-Z0,5	3.01	3.01	3.01	3.79	3.01	---
S303P-Z1	2.99	2.99	2.99	3.88	2.99	---
S303P-Z1,6	3.00	3.00	3.00	4.27	3.00	---
S303P-Z2	3.00	3.00	3.00	3.81	3.00	---
S303P-Z3	3.00	3.00	3.00	3.93	3.00	---
S303P-Z4	3.01	3.01	3.01	3.86	3.01	---
S303P-Z6	3.00	3.00	3.00	4.35	3.00	---
S303P-Z8	3.00	3.00	3.00	3.18	3.00	---
S303P-Z10	3.03	3.03	3.03	3.14	3.03	---
S303P-Z16	3.05	3.05	3.05	4.24	3.05	---
S303P-Z20	3.10	3.10	3.10	4.59	3.10	---
S303P-Z25	3.12	3.12	3.12	4.94	3.12	---
S303P-Z32	3.22	3.22	3.22	4.59	3.22	---
S303P-Z40	3.21	3.21	3.21	6.53	3.21	---
S303P-Z50	3.19	3.19	3.19	9.18	3.19	---
S303P-Z63	3.18	3.18	3.18	10.59	3.18	---
S303P-B6NA	4.07	4.07	4.07	2.44	4.07	---
S303P-B8NA	3.94	3.94	3.94	3.73	3.94	---
S303P-B10NA	3.97	3.97	3.97	3.29	3.97	---
S303P-B13NA	4.02	4.02	4.02	4.47	4.02	---
S303P-B16NA	3.99	3.99	3.99	3.76	3.99	---
S303P-B20NA	4.01	4.01	4.01	4.71	4.01	---
S303P-B25NA	4.00	4.00	4.00	7.76	4.00	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
S303P-B32NA	4.15	4.15	4.15	7.76	4.15	---
S303P-B40NA	4.27	4.27	4.27	7.53	4.27	---
S303P-B50NA	4.25	4.25	4.25	8.47	4.25	---
S303P-B63NA	4.22	4.22	4.22	14.12	4.22	---
S303P-C0,5NA	3.95	3.95	3.95	3.12	3.95	---
S303P-C1NA	3.96	3.96	3.96	3.38	3.96	---
S303P-C1,6NA	4.01	4.01	4.01	3.17	4.01	---
S303P-C2NA	4.05	4.05	4.05	3.23	4.05	---
S303P-C3NA	3.97	3.97	3.97	3.23	3.97	---
S303P-C4NA	4.02	4.02	4.02	3.32	4.02	---
S303P-C6NA	4.00	4.00	4.00	2.13	4.00	---
S303P-C8NA	3.93	3.93	3.93	3.73	3.93	---
S303P-C10NA	3.88	3.88	3.88	3.41	3.88	---
S303P-C13NA	3.98	3.98	3.98	3.29	3.98	---
S303P-C16NA	3.98	3.98	3.98	3.76	3.98	---
S303P-C20NA	4.00	4.00	4.00	4.71	4.00	---
S303P-C25NA	4.02	4.02	4.02	7.76	4.02	---
S303P-C32NA	4.14	4.14	4.14	7.76	4.14	---
S303P-C40NA	4.26	4.26	4.26	7.53	4.26	---
S303P-C50NA	4.24	4.24	4.24	8.47	4.24	---
S303P-C63NA	4.26	4.26	4.26	13.18	4.26	---
S303P-D0,5NA	4.01	4.01	4.01	2.99	4.01	---
S303P-D1NA	4.00	4.00	4.00	3.05	4.00	---
S303P-D1,6NA	4.05	4.05	4.05	2.99	4.05	---
S303P-D2NA	3.97	3.97	3.97	3.15	3.97	---
S303P-D3NA	4.03	4.03	4.03	3.01	4.03	---
S303P-D4NA	4.02	4.02	4.02	3.32	4.02	---
S303P-D6NA	3.88	3.88	3.88	3.18	3.88	---
S303P-D6NA	3.96	3.96	3.96	1.91	3.96	---
S303P-D10NA	3.97	3.97	3.97	2.82	3.97	---
S303P-D13NA	3.98	3.98	3.98	3.29	3.98	---
S303P-D16NA	4.00	4.00	4.00	3.06	4.00	---
S303P-D20NA	4.00	4.00	4.00	4.71	4.00	---
S303P-D25NA	4.01	4.01	4.01	7.76	4.01	---
S303P-D32NA	4.14	4.14	4.14	7.76	4.14	---
S303P-D40NA	4.29	4.29	4.29	7.53	4.29	---
S303P-D50NA	4.20	4.20	4.20	8.00	4.20	---
S303P-D63NA	4.23	4.23	4.23	14.12	4.23	---
S303P-K0,2NA	3.98	3.98	3.98	2.64	3.98	---
S303P-K0,3NA	3.96	3.96	3.96	2.66	3.96	---
S303P-K0,5NA	3.99	3.99	3.99	2.99	3.99	---
S303P-K0,75NA	3.98	3.98	3.98	2.65	3.98	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
S303P-K1NA	4.01	4.01	4.01	3.05	4.01	---
S303P-K1,6NA	4.06	4.06	4.06	2.99	4.06	---
S303P-K2NA	3.98	3.98	3.98	3.15	3.98	---
S303P-K3NA	4.04	4.04	4.04	3.01	4.04	---
S303P-K4NA	4.03	4.03	4.03	3.32	4.03	---
S303P-K6NA	3.90	3.90	3.90	3.81	3.90	---
S303P-K8NA	3.90	3.90	3.90	2.86	3.90	---
S303P-K10NA	3.97	3.97	3.97	2.15	3.97	---
S303P-K13NA	3.99	3.99	3.99	3.53	3.99	---
S303P-K16NA	4.01	4.01	4.01	3.06	4.01	---
S303P-K20NA	4.01	4.01	4.01	5.65	4.01	---
S303P-K25NA	4.03	4.03	4.03	6.35	4.03	---
S303P-K32NA	4.15	4.15	4.15	5.65	4.15	---
S303P-K40NA	4.30	4.30	4.30	8.71	4.30	---
S303P-K50NA	4.21	4.21	4.21	9.18	4.21	---
S303P-K63NA	4.24	4.24	4.24	14.12	4.24	---
S303P-Z0,5NA	3.99	3.99	3.99	5.06	3.99	---
S303P-Z1NA	3.97	3.97	3.97	5.17	3.97	---
S303P-Z1,6NA	3.98	3.98	3.98	5.69	3.98	---
S303P-Z2NA	3.98	3.98	3.98	5.08	3.98	---
S303P-Z3NA	3.98	3.98	3.98	5.24	3.98	---
S303P-Z4NA	3.99	3.99	3.99	5.15	3.99	---
S303P-Z6NA	3.98	3.98	3.98	5.80	3.98	---
S303P-Z8NA	3.97	3.97	3.97	4.24	3.97	---
S303P-Z10NA	4.01	4.01	4.01	4.19	4.01	---
S303P-Z16NA	4.02	4.02	4.02	5.65	4.02	---
S303P-Z20NA	4.08	4.08	4.08	6.12	4.08	---
S303P-Z25NA	4.09	4.09	4.09	6.59	4.09	---
S303P-Z32NA	4.24	4.24	4.24	6.12	4.24	---
S303P-Z40NA	4.24	4.24	4.24	8.71	4.24	---
S303P-Z50NA	4.22	4.22	4.22	12.24	4.22	---
S303P-Z63NA	4.21	4.21	4.21	14.12	4.21	---
S304P-B6	4.13	4.13	4.13	2.44	4.13	---
S304P-B8	3.96	3.96	3.96	3.73	3.96	---
S304P-B10	4.01	4.01	4.01	3.29	4.01	---
S304P-B13	4.06	4.06	4.06	4.47	4.06	---
S304P-B16	4.02	4.02	4.02	3.76	4.02	---
S304P-B20	4.04	4.04	4.04	4.71	4.04	---
S304P-B25	4.20	4.20	4.20	7.76	4.20	---
S304P-B32	4.16	4.16	4.16	7.76	4.16	---
S304P-B40	4.32	4.32	4.32	7.53	4.32	---
S304P-B50	4.29	4.29	4.29	8.47	4.29	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
S304P-B63	4.27	4.27	4.27	14.12	4.27	---
S304P-C0,5	3.99	3.99	3.99	3.12	3.99	---
S304P-C1	3.98	3.98	3.98	3.38	3.98	---
S304P-C1,6	4.04	4.04	4.04	3.17	4.04	---
S304P-C2	4.10	4.10	4.10	3.23	4.10	---
S304P-C3	3.99	3.99	3.99	3.23	3.99	---
S304P-C4	4.06	4.06	4.06	3.32	4.06	---
S304P-C6	4.04	4.04	4.04	2.13	4.04	---
S304P-C8	3.95	3.95	3.95	3.73	3.95	---
S304P-C10	3.92	3.92	3.92	3.41	3.92	---
S304P-C13	4.01	4.01	4.01	3.29	4.01	---
S304P-C16	4.01	4.01	4.01	3.76	4.01	---
S304P-C20	4.03	4.03	4.03	4.71	4.03	---
S304P-C25	4.06	4.06	4.06	7.76	4.06	---
S304P-C32	4.15	4.15	4.15	7.76	4.15	---
S304P-C40	4.31	4.31	4.31	7.53	4.31	---
S304P-C50	4.28	4.28	4.28	8.47	4.28	---
S304P-C63	4.31	4.31	4.31	13.18	4.31	---
S304P-D0,5	4.05	4.05	4.05	2.99	4.05	---
S304P-D1	4.03	4.03	4.03	3.05	4.03	---
S304P-D1,6	4.10	4.10	4.10	2.99	4.10	---
S304P-D2	4.00	4.00	4.00	3.15	4.00	---
S304P-D3	4.08	4.08	4.08	3.01	4.08	---
S304P-D4	4.06	4.06	4.06	3.32	4.06	---
S304P-D6	3.99	3.99	3.99	1.91	3.99	---
S304P-D8	3.89	3.89	3.89	3.18	3.89	---
S304P-D10	4.00	4.00	4.00	2.82	4.00	---
S304P-D13	4.01	4.01	4.01	3.29	4.01	---
S304P-D16	4.03	4.03	4.03	3.06	4.03	---
S304P-D20	4.04	4.04	4.04	4.71	4.04	---
S304P-D25	4.06	4.06	4.06	7.76	4.06	---
S304P-D32	4.15	4.15	4.15	7.76	4.15	---
S304P-D40	4.32	4.32	4.32	7.53	4.32	---
S304P-D50	4.23	4.23	4.23	8.00	4.23	---
S304P-D63	4.27	4.27	4.27	14.12	4.27	---
S304P-K0,2	4.02	4.02	4.02	2.64	4.02	---
S304P-K0,3	3.98	3.98	3.98	2.66	3.98	---
S304P-K0,5	4.01	4.01	4.01	2.99	4.01	---
S304P-K0,75	4.00	4.00	4.00	2.65	4.00	---
S304P-K1	4.04	4.04	4.04	3.05	4.04	---
S304P-K1,6	4.11	4.11	4.11	2.99	4.11	---
S304P-K2	4.01	4.01	4.01	3.15	4.01	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
S304P-K3	4.09	4.09	4.09	3.01	4.09	---
S304P-K4	4.07	4.07	4.07	3.32	4.07	---
S304P-K6	3.89	3.89	3.89	3.81	3.89	---
S304P-K8	3.88	3.88	3.88	2.86	3.88	---
S304P-K10	4.00	4.00	4.00	2.15	4.00	---
S304P-K13	4.02	4.02	4.02	3.53	4.02	---
S304P-K16	4.04	4.04	4.04	3.06	4.04	---
S304P-K20	4.04	4.04	4.04	5.65	4.04	---
S304P-K25	4.07	4.07	4.07	6.35	4.07	---
S304P-K32	4.16	4.16	4.16	5.65	4.16	---
S304P-K40	4.35	4.35	4.35	8.71	4.35	---
S304P-K50	4.24	4.24	4.24	9.18	4.24	---
S304P-K63	4.27	4.27	4.27	14.12	4.27	---
S304P-Z0,5	4.01	4.01	4.01	5.06	4.01	---
S304P-Z1	3.99	3.99	3.99	5.17	3.99	---
S304P-Z1,6	4.00	4.00	4.00	5.69	4.00	---
S304P-Z2	4.00	4.00	4.00	5.08	4.00	---
S304P-Z3	4.00	4.00	4.00	5.24	4.00	---
S304P-Z4	4.02	4.02	4.02	5.15	4.02	---
S304P-Z6	4.01	4.01	4.01	5.80	4.01	---
S304P-Z8	4.00	4.00	4.00	4.24	4.00	---
S304P-Z10	4.05	4.05	4.05	4.19	4.05	---
S304P-Z16	4.06	4.06	4.06	5.65	4.06	---
S304P-Z20	4.14	4.14	4.14	6.12	4.14	---
S304P-Z25	4.16	4.16	4.16	6.59	4.16	---
S304P-Z32	4.29	4.29	4.29	6.12	4.29	---
S304P-Z40	4.27	4.27	4.27	8.71	4.27	---
S304P-Z50	4.25	4.25	4.25	12.24	4.25	---
S304P-Z63	4.24	4.24	4.24	14.12	4.24	---
M301P-D0,5	1.08	1.08	1.08	0.75	1.08	---
M301P-D1	1.10	1.10	1.10	0.76	1.10	---
M301P-D1,6	1.12	1.12	1.12	0.75	1.12	---
M301P-D2,5	1.09	1.09	1.09	0.75	1.09	---
M301P-D4	1.11	1.11	1.11	0.83	1.11	---
M301P-D6,3	1.07	1.07	1.07	0.47	1.07	---
M301P-D10	1.09	1.09	1.09	0.71	1.09	---
M301P-D12,5	1.09	1.09	1.09	0.76	1.09	---
M301P-D16	1.10	1.10	1.10	0.94	1.10	---
M301P-D20	1.10	1.10	1.10	1.35	1.10	---
M301P-D25	1.11	1.11	1.11	1.35	1.11	---
M301P-D32	1.14	1.14	1.14	1.71	1.14	---
M301P-D40	1.18	1.18	1.18	1.71	1.18	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
M301P-D50	1.16	1.16	1.16	2.00	1.16	---
M301P-D63	1.16	1.16	1.16	3.53	1.16	---
M302P-D0,5	2.17	2.17	2.17	1.50	2.17	---
M302P-D1	2.20	2.20	2.20	1.53	2.20	---
M302P-D1,6	2.23	2.23	2.23	1.50	2.23	---
M302P-D2,5	2.17	2.17	2.17	1.50	2.17	---
M302P-D4	2.22	2.22	2.22	1.66	2.22	---
M302P-D6,3	2.13	2.13	2.13	0.95	2.13	---
M302P-D10	2.18	2.18	2.18	1.41	2.18	---
M302P-D12,5	2.18	2.18	2.18	1.65	2.18	---
M302P-D16	2.19	2.19	2.19	1.53	2.19	---
M302P-D20	2.19	2.19	2.19	2.35	2.19	---
M302P-D25	2.21	2.21	2.21	3.88	2.21	---
M302P-D32	2.25	2.25	2.25	3.88	2.25	---
M302P-D40	2.34	2.34	2.34	3.76	2.34	---
M302P-D50	2.30	2.30	2.30	4.00	2.30	---
M302P-D63	2.30	2.30	2.30	7.06	2.30	---
M303P-D0,5	3.33	3.33	3.33	2.25	3.33	---
M303P-D1	3.39	3.39	3.39	2.29	3.39	---
M303P-D1,6	3.43	3.43	3.43	2.24	3.43	---
M303P-D2,5	3.34	3.34	3.34	2.26	3.34	---
M303P-D4	3.42	3.42	3.42	2.49	3.42	---
M303P-D6,3	3.28	3.28	3.28	1.43	3.28	---
M303P-D10	3.35	3.35	3.35	2.12	3.35	---
M303P-D12,5	3.35	3.35	3.35	2.47	3.35	---
M303P-D16	3.37	3.37	3.37	2.29	3.37	---
M303P-D20	3.37	3.37	3.37	3.53	3.37	---
M303P-D25	3.40	3.40	3.40	5.82	3.40	---
M303P-D32	3.46	3.46	3.46	5.82	3.46	---
M303P-D40	3.59	3.59	3.59	5.65	3.59	---
M303P-D50	3.54	3.54	3.54	6.00	3.54	---
M303P-D63	3.54	3.54	3.54	10.59	3.54	---
M304P-D0,5	4.43	4.43	4.43	2.99	4.43	---
M304P-D1	4.50	4.50	4.50	3.05	4.50	---
M304P-D1,6	4.56	4.56	4.56	2.99	4.56	---
M304P-D2,5	4.43	4.43	4.43	3.01	4.43	---
M304P-D4	4.54	4.54	4.54	3.32	4.54	---
M304P-D6,3	4.36	4.36	4.36	3.18	4.36	---
M304P-D10	4.45	4.45	4.45	2.82	4.45	---
M304P-D12,5	4.45	4.45	4.45	3.29	4.45	---
M304P-D16	4.48	4.48	4.48	3.06	4.48	---
M304P-D20	4.48	4.48	4.48	4.71	4.48	---

Extrapolation Factors

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
M304P-D25	4.51	4.51	4.51	7.76	4.51	---
M304P-D32	4.60	4.60	4.60	7.76	4.60	---
M304P-D40	4.77	4.77	4.77	7.53	4.77	---
M304P-D50	4.70	4.70	4.70	8.00	4.70	---
M304P-D63	4.70	4.70	4.70	14.12	4.70	---

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

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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