



T0 Switch with I1 Enclosure

Representative product	T0-2-1/I1/SVB (Y7-207147) Product Category: Switches																																				
Description of the product	Eaton's switches are designed to establish and cut off the supply of an electrical circuit. These switches are surface mounted with I1 Enclosure. They have an emergency switching off function and are equipped with a rotary handle and a locking ring.																																				
Homogeneous Environmental Families Covered	<p>The PEP concerns following product offerings from Eaton Moeller® series P3 switch disconnectors, as mentioned below:</p> <table border="0"> <tr> <td>T0-2-1/I1/SVB</td> <td>T0-3-15681/I1/SVB</td> </tr> <tr> <td>T0-1-102/I1/SVB-SW</td> <td>T0-3-15683/I1/SVB</td> </tr> <tr> <td>T0-1-8200/I1/SVB-SW</td> <td>T0-3-8341/I1/SVB</td> </tr> <tr> <td>T0-1-102/I1/SVB</td> <td>T0-3-8342/I1/SVB</td> </tr> <tr> <td>T0-1-8200/I1/SVB</td> <td>T0-3-8901/I1/SVB</td> </tr> <tr> <td>T0-2-15679/I1/SVB</td> <td>T0-3-15680/I1/SVB-SW</td> </tr> <tr> <td>T0-2-8900/I1/SVB</td> <td>T0-3-15681/I1/SVB-SW</td> </tr> <tr> <td>T0-2-8324/I1/SVB</td> <td>T0-3-15683/I1/SVB-SW</td> </tr> <tr> <td>T0-2-113/I1/SVB</td> <td>T0-3-8341/I1/SVB-SW</td> </tr> <tr> <td>T0-2-15169/I1/SVB</td> <td>T0-3-8342/I1/SVB-SW</td> </tr> <tr> <td>T0-2-1/I1/SVB-SW</td> <td>T0-3-8901/I1/SVB-SW</td> </tr> <tr> <td>T0-2-15679/I1/SVB-SW</td> <td>T0-4-15164/I1/SVB</td> </tr> <tr> <td>T0-2-8324/I1/SVB-SW</td> <td>T0-4-15682/I1/SVB</td> </tr> <tr> <td>T0-2-113/I1/SVB-SW</td> <td>T0-4-8343/I1/SVB</td> </tr> <tr> <td>T0-2-8900/I1/SVB-SW</td> <td>T0-4-8344/I1/SVB</td> </tr> <tr> <td>T0-3-15159/I1/SVB</td> <td>T0-4-8903/I1/SVB</td> </tr> <tr> <td>T0-3-15259/I1/SVB</td> <td>T0-4-15682/I1/SVB-SW</td> </tr> <tr> <td>T0-3-15680/I1/SVB</td> <td>T0-4-8344/I1/SVB-SW</td> </tr> </table>	T0-2-1/I1/SVB	T0-3-15681/I1/SVB	T0-1-102/I1/SVB-SW	T0-3-15683/I1/SVB	T0-1-8200/I1/SVB-SW	T0-3-8341/I1/SVB	T0-1-102/I1/SVB	T0-3-8342/I1/SVB	T0-1-8200/I1/SVB	T0-3-8901/I1/SVB	T0-2-15679/I1/SVB	T0-3-15680/I1/SVB-SW	T0-2-8900/I1/SVB	T0-3-15681/I1/SVB-SW	T0-2-8324/I1/SVB	T0-3-15683/I1/SVB-SW	T0-2-113/I1/SVB	T0-3-8341/I1/SVB-SW	T0-2-15169/I1/SVB	T0-3-8342/I1/SVB-SW	T0-2-1/I1/SVB-SW	T0-3-8901/I1/SVB-SW	T0-2-15679/I1/SVB-SW	T0-4-15164/I1/SVB	T0-2-8324/I1/SVB-SW	T0-4-15682/I1/SVB	T0-2-113/I1/SVB-SW	T0-4-8343/I1/SVB	T0-2-8900/I1/SVB-SW	T0-4-8344/I1/SVB	T0-3-15159/I1/SVB	T0-4-8903/I1/SVB	T0-3-15259/I1/SVB	T0-4-15682/I1/SVB-SW	T0-3-15680/I1/SVB	T0-4-8344/I1/SVB-SW
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	*[The product market is spread globally. Different scenarios are studied considering distribution in UK and outside Europe and separate extrapolation factors are given in this PEP considering Europe market as reference]
Functional unit	Establish, support and interrupt the rated current 20 A and rated voltage 690 V AC, with IP65 degree of protection for an enclosure / cabinet installation, in the Industrial application areas, according to the appropriate use scenario, and for the reference service life of the product of 20 years
Company information	Eaton Production International GmbH, Dukeries Industrial Estate, Worksop, Nottinghamshire, S81 7DJ, United Kingdom Email: productstewardship-es@eaton.com

Constituent Materials			
Reference product mass	3.77E-01 kg (With packaging)		
Category PEP Material	Materials	Mass (kg)	Percentage (%)
Plastic	Polycarbonate	1.43E-01	37.8%
Plastic	Polyamide	1.08E-01	28.7%
Other	Cardboard	4.90E-02	13.0%
Metal	Stainless steel	3.09E-02	8.2%
Metal	Brass	2.18E-02	5.8%
Other	Paper	1.39E-02	3.7%
Plastic	Styrene Butadiene Rubber (SBR)	7.90E-03	2.1%
Metal	Steel wire rod	8.76E-04	0.2%
Other	Glue	6.01E-04	0.2%
Plastic	Ethylene propylene diene (EPDM)	4.67E-04	0.1%
Plastic	Polyethylene low density (PE-LD) film	4.53E-04	0.1%
Other	Silicon	3.76E-04	0.1%
Total		3.77E-01	100.0%

Substance Assessment

The representative product is compliant with the EU-RoHS Directive (2011/65/EU) without any exemption and the product doesn't contain any substance listed as Substance-of-Very-High-Concern (SVHC) on the Candidate List of the EU-REACH Regulation (1907/2006/EC).

Additional Environmental Information	
Manufacturing	The reference product is assembled at an Eaton plant in United Kingdom, holding management system certifications according to ISO 14001 standards.
Distribution	Eaton is committed to minimizing weight and volume of product and packaging with focus to optimize transport efficiency.
Installation	The installation process does not require any energy consumption and there is no waste other than the obsolete product packaging generated during this step.
Use	The product requires energy consumption during operation.
End of life	The recyclability rate of the overall product is 77.54% if it is properly dismantled prior to shredding. The rate is calculated based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental Impacts	
<p>The calculation of the environmental impacts is the result of the Product's Life Cycle Analysis in accordance with ISO 14040/44, covering the entire lifecycle, i.e., "Cradle-to-Grave" including the following life cycle phases: production, distribution, installation, use and end of life.</p> <p>System modelling was carried out using the commercial LCA software EIME v6.2-22 with database version CODDE-2024-04.</p> <p>Indicators Set: PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0</p>	
Manufacturing Phase	<p>The product is assembled as well as packed at Eaton facility Eaton Production International GmbH, United Kingdom plant.</p> <p>Energy model used: United Kingdom</p>
Distribution Phase	Distribution of the product in its packaging from Eaton's last logistics platform to the installation place is considered in Europe.
Installation Phase	<p>Product is installed in Europe.</p> <p>Treatment of packaging waste is considered in this phase as per country specific statistics given in PSR. Energy model used: Europe</p>
Use Phase	<p>Reference lifetime: 20 Years</p> <p>Usage profile: The product has power loss of 1.8 W at full load condition.</p> <p>For industrial applications considering 50% of the loading rate and 30% use time rate, total losses are 23.65 kWh over the 20 years.</p> <p>Product do not require any maintenance/replacement during useful life. Industrial Usage profile is considered.</p> <p>Energy model used: Europe</p>
End of life Phase	<p>Product disposed with WEEE guidelines.</p> <p>Energy model used: Europe</p>

Module-D

Module D is calculated according to PCR-ed4-EN-202109 06 based on the materials recycled and the modelled end-of-life scenario.

It expresses the net benefits and loads beyond the boundaries of the system and are not to be included in the life cycle totals.

Environmental Impact Indicators: Mandatory

Mandatory environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	Module D
Climate change – total (GWP)	kg CO ₂ eq.	1.13E+01	2.41E+00	8.99E-02	1.78E-01	8.34E+00	3.06E-01	-1.39E+00
Climate change - fossil fuels (GWP-f)	kg CO ₂ eq.	1.12E+01	2.45E+00	8.99E-02	7.36E-02	8.32E+00	3.04E-01	-1.44E+00
Climate change – biogenics (GWP-b)	kg CO ₂ eq.	7.61E-02	-4.56E-02	0.00E+00	1.04E-01	1.53E-02	2.32E-03	5.12E-02
Climate change - land use and land use transformation (GWP-lu)	kg CO ₂ eq.	2.06E-04	2.06E-04	0.00E+00	0.00E+00	0.00E+00	1.13E-07	-1.81E-04
Ozone depletion (ODP)	kg eq. CFC-11	1.87E-07	1.38E-07	1.38E-10	2.82E-09	4.04E-08	5.13E-09	-8.04E-08
Acidification (AP)	mole of H ⁺ eq.	5.87E-02	1.35E-02	5.70E-04	2.57E-04	4.27E-02	1.68E-03	-6.58E-03
Freshwater eutrophication (EP-fw)	kg P eq.	2.70E-04	1.20E-04	3.38E-08	8.66E-07	2.19E-05	1.27E-04	-1.89E-05
Marine aquatic eutrophication (EP-m)	kg of N eq.	8.28E-03	2.45E-03	2.67E-04	9.76E-05	5.20E-03	2.71E-04	-1.23E-03
Terrestrial eutrophication (EP-t)	mole of N eq.	1.15E-01	2.45E-02	2.93E-03	6.87E-04	8.36E-02	3.26E-03	-9.63E-03
Photochemical ozone formation (POCP)	kg of NMVOC eq.	2.48E-02	6.63E-03	7.39E-04	1.68E-04	1.64E-02	8.54E-04	-2.98E-03
Depletion of abiotic resources – elements (ADPe)	kg eq. Sb	8.20E-05	7.51E-05	3.54E-09	6.02E-09	2.95E-06	3.92E-06	-3.93E-05
Depletion of abiotic resources - fossil fuels (ADP-f)	MJ	2.73E+02	5.11E+01	1.26E+00	7.22E-01	2.10E+02	9.69E+00	-2.86E+01
Water scarcity (WDP)	m3 of eq. deprivation worldwide	1.57E+00	8.06E-01	3.42E-04	1.98E-02	6.39E-01	1.04E-01	-5.20E-01

Inventory Flow Indicators: Mandatory

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	Module D
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	6.02E+01	3.66E+00	1.68E-03	3.03E-01	5.57E+01	5.43E-01	-5.91E-01
Use of renewable primary energy resources used as raw materials	MJ	1.93E+00	1.93E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-9.28E-01

Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	6.21E+01	5.59E+00	1.68E-03	3.03E-01	5.57E+01	5.43E-01	-1.52E+00
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	2.65E+02	4.26E+01	1.26E+00	7.22E-01	2.10E+02	9.69E+00	-2.19E+01
Use of non-renewable primary energy resources used as raw materials	MJ	8.53E+00	8.53E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.76E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	2.73E+02	5.11E+01	1.26E+00	7.22E-01	2.10E+02	9.69E+00	-2.86E+01
Use of secondary materials	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	m3	3.73E-02	1.91E-02	7.96E-06	7.42E-04	1.50E-02	2.43E-03	-1.21E-02
Hazardous waste disposed of	kg	6.09E+00	5.40E+00	0.00E+00	3.75E-03	3.65E-01	3.17E-01	-2.93E+00
Non-hazardous waste disposed of	kg	2.35E+00	8.43E-01	3.16E-03	2.49E-02	1.41E+00	7.59E-02	-4.59E-01
Radioactive waste disposed of	kg	6.78E-04	3.29E-04	2.25E-06	3.99E-06	3.23E-04	1.96E-05	-2.38E-04
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	4.42E-01	1.06E-01	0.00E+00	5.26E-02	0.00E+00	2.84E-01	0.00E+00
Materials for energy recovery	kg	8.88E-03	4.61E-05	0.00E+00	5.91E-03	0.00E+00	2.93E-03	0.00E+00
Exported energy	MJ by energy vector	4.58E-04	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the product	kg of C.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	kg of C.	2.69E-02	2.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Environmental Impact Indicators: Optional

Optional Environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	Module D
Emission of fine particles	incidence of diseases	5.01E-07	1.39E-07	4.64E-09	1.48E-09	3.44E-07	1.19E-08	-7.01E-08
Ionizing radiation, human health	kBq of U235 eq.	3.60E+01	1.53E+01	2.19E-04	8.59E+00	1.20E+01	1.63E-01	-3.45E+00
Ecotoxicity, fresh water	CTUe	1.22E+03	1.20E+03	5.90E-02	9.57E-01	1.57E+01	9.84E-01	-1.08E+03
Human toxicity, cancer effects	CTUh	8.27E-07	8.19E-07	1.58E-12	6.58E-09	1.05E-09	1.42E-10	-4.41E-07
Human toxicity, non-cancer effects	CTUh	1.81E-07	1.46E-07	3.06E-11	2.13E-10	2.50E-08	9.99E-09	-7.65E-08
Impacts related to land use/soil quality	-	1.29E+00	7.90E-01	0.00E+00	1.86E-04	2.31E-01	2.71E-01	-5.06E-01
Total use of primary energy during the life cycle	MJ	3.35E+02	5.67E+01	1.26E+00	1.02E+00	2.66E+02	1.02E+01	-3.01E+01

To evaluate the environmental impact of other product covered by this PEP, multiply the impact figures by -

Multiplying Factors for Manufacturing, distribution, installation, End of Life and Module-D phase Phase:

Part Number	Description	Phases	GWP	GWP-f	GWP-b	GWP-lu	ODP	AP	EP-fw	EP-m	EP-t	POCP	ADP-e	ADP-f	WDP	
Y7-207147	T0-2-1/I1/SVB (Reference)	All Phases (except use phase)	1.00													
Y7-207144	T0-1-102/I1/SVB-SW	All Phases (except use phase)	1.00													
Y7-207146	T0-1-8200/I1/SVB-SW	All Phases (except use phase)	1.00													
Y7-207143	T0-1-102/I1/SVB	All Phases (except use phase)	1.00													
Y7-207145	T0-1-8200/I1/SVB	All Phases (except use phase)	1.00													
Y7-207149	T0-2-15679/I1/SVB	All Phases (except use phase)	1.00													
Y7-207151	T0-2-8900/I1/SVB	All Phases (except use phase)	1.00													
Y7-218978	T0-2-8324/I1/SVB	All Phases (except use phase)	1.00													
Y7-222585	T0-2-113/I1/SVB	All Phases (except use phase)	1.00													
Y7-222601	T0-2-15169/I1/SVB	All Phases (except use phase)	1.00													
Y7-207148	T0-2-1/I1/SVB-SW	All Phases (except use phase)	1.00													
Y7-207150	T0-2-15679/I1/SVB-SW	All Phases (except use phase)	1.00													
Y7-218979	T0-2-8324/I1/SVB-SW	All Phases (except use phase)	1.00													
Y7-222586	T0-2-113/I1/SVB-SW	All Phases (except use phase)	1.00													
Y7-207152	T0-2-8900/I1/SVB-SW	All Phases (except use phase)	1.00													
Y7-222646	T0-3-15159/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64	
		Distribution	1.29													
		Installation	1.00													
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14	
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51	

Part Number	Description	Phases	GWP	GWP-f	GWP-b	GWP-lu	ODP	AP	EP-fw	EP-m	EP-t	POCP	ADP-e	ADP-f	WDP	
Y7-222653	T0-3-15259/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64	
		Distribution	1.29													
		Installation	1.00													
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14	
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51	
Y7-207153	T0-3-15680/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64	
		Distribution	1.29													
		Installation	1.00													
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14	
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51	
Y7-207155	T0-3-15681/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64	
		Distribution	1.29													
		Installation	1.00													
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14	
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51	
Y7-207157	T0-3-15683/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64	
		Distribution	1.29													
		Installation	1.00													
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14	
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51	
Y7-218983	T0-3-8341/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64	
		Distribution	1.29													
		Installation	1.00													
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14	
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51	
Y7-207159	T0-3-8342/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64	
		Distribution	1.29													
		Installation	1.00													
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14	
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51	
Y7-231934	T0-3-8901/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64	
		Distribution	1.29													
		Installation	1.00													
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14	
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51	
Y7-207154	T0-3-15680/I1/SVB-SW	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64	
		Distribution	1.29													
		Installation	1.00													
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14	
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51	
Y7-207156		Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64	

Part Number	Description	Phases	GWP	GWP-f	GWP-b	GWP-lu	ODP	AP	EP-fw	EP-m	EP-t	POCP	ADP-e	ADP-f	WDP
	T0-3-15681/I1/SVB-SW	Distribution	1.29												
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51
Y7-207158	T0-3-15683/I1/SVB-SW	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64
		Distribution	1.29												
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51
Y7-222670	T0-3-8341/I1/SVB-SW	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64
		Distribution	1.29												
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51
Y7-207160	T0-3-8342/I1/SVB-SW	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64
		Distribution	1.29												
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51
Y7-231935	T0-3-8901/I1/SVB-SW	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64
		Distribution	1.29												
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51
Y7-222483	T0-4-15164/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64
		Distribution	1.29												
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51
Y7-207161	T0-4-15682/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64
		Distribution	1.29												
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51
Y7-218965	T0-4-8343/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64
		Distribution	1.29												
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51
Y7-207163	T0-4-8344/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64
		Distribution	1.29												

Part Number	Description	Phases	GWP	GWP-f	GWP-b	GWP-lu	ODP	AP	EP-fw	EP-m	EP-t	POCP	ADP-e	ADP-f	WDP
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51
Y7-218960	T0-4-8903/I1/SVB	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64
		Distribution	1.29												
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51
Y7-207162	T0-4-15682/I1/SVB-SW	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64
		Distribution	1.29												
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51
Y7-207164	T0-4-8344/I1/SVB-SW	Manufacturing	1.37	1.36	0.68	1.20	1.89	1.74	2.22	1.33	1.32	1.40	2.22	1.35	1.64
		Distribution	1.29												
		Installation	1.00												
		End of Life	1.57	1.56	2.42	2.50	1.65	1.71	2.49	1.60	1.61	1.64	2.49	1.66	2.14
		Module D	1.34	1.32	0.86	1.16	1.84	1.74	1.11	1.36	1.35	1.42	2.18	1.30	1.51

Multiplying Factors for Use Phase

Part No.	Description	Extrapolation Factor for Use Phase (Only B6)
Y7-207147 (Reference)	T0-2-1/I1/SVB	1.00
Y7-207144	T0-1-102/I1/SVB-SW	0.67
Y7-207146	T0-1-8200/I1/SVB-SW	0.33
Y7-207143	T0-1-102/I1/SVB	0.67
Y7-207145	T0-1-8200/I1/SVB	0.33
Y7-207149	T0-2-15679/I1/SVB	1.33
Y7-207151	T0-2-8900/I1/SVB	1.33
Y7-218978	T0-2-8324/I1/SVB	1.33
Y7-222585	T0-2-113/I1/SVB	1.33
Y7-222601	T0-2-15169/I1/SVB	1.33
Y7-207148	T0-2-1/I1/SVB-SW	1.00
Y7-207150	T0-2-15679/I1/SVB-SW	1.33
Y7-218979	T0-2-8324/I1/SVB-SW	1.33
Y7-222586	T0-2-113/I1/SVB-SW	1.33
Y7-207152	T0-2-8900/I1/SVB-SW	1.33
Y7-222646	T0-3-15159/I1/SVB	2.00
Y7-222653	T0-3-15259/I1/SVB	1.67
Y7-207153	T0-3-15680/I1/SVB	2.00

Part No.	Description	Extrapolation Factor for Use Phase (Only B6)
Y7-207155	T0-3-15681/I1/SVB	2.00
Y7-207157	T0-3-15683/I1/SVB	2.00
Y7-218983	T0-3-8341/I1/SVB	1.67
Y7-207159	T0-3-8342/I1/SVB	2.00
Y7-231934	T0-3-8901/I1/SVB	2.00
Y7-207154	T0-3-15680/I1/SVB-SW	2.00
Y7-207156	T0-3-15681/I1/SVB-SW	2.00
Y7-207158	T0-3-15683/I1/SVB-SW	2.00
Y7-222670	T0-3-8341/I1/SVB-SW	1.67
Y7-207160	T0-3-8342/I1/SVB-SW	2.00
Y7-231935	T0-3-8901/I1/SVB-SW	2.00
Y7-222483	T0-4-15164/I1/SVB	2.67
Y7-207161	T0-4-15682/I1/SVB	2.67
Y7-218965	T0-4-8343/I1/SVB	2.33
Y7-207163	T0-4-8344/I1/SVB	2.67
Y7-218960	T0-4-8903/I1/SVB	2.67
Y7-207162	T0-4-15682/I1/SVB-SW	2.67
Y7-207164	T0-4-8344/I1/SVB-SW	2.67

Factors for Manufacturing, Distribution, Installation, End of Life and Module-D phase for different geographical regions


Product	Geographical regions	Phases	GWP	GWP-f	GWP-b	GWP-lu	ODP	AP	EP-fw	EP-m	EP-t	POCP	ADP-e	ADP-f	WDP
Y7-207147 (Reference)	Europe (Reference)	All Phase	1.00												
	United Kingdom	Manufacturing ,EoL, Module- D	1.00												
		Installation	0.99	0.98	1.00	1.00	1.00	0.96	1.00	0.99	1.01	0.98	0.93	0.95	0.99
		Distribution	0.29												
	Outside Europe	Manufacturing	1.00												
		Distribution	1.34	1.34	1.00	1.00	1.14	7.00	1.23	3.56	3.55	3.63	1.22	1.22	1.17
		Installation	0.69	0.31	0.96	1.00	0.28	0.54	0.02	0.35	0.65	0.58	0.27	0.58	0.05
		End of Life	0.50	0.51	0.15	0.00	2.24	0.65	0.00	1.04	1.11	0.94	0.00	0.29	0.11

Factors for use phase for different geographical regions

Product	Geographical regions	GWP	GWP-f	GWP-b	GWP-lu	ODP	AP	EP-fw	EP-m	EP-t	POCP	ADP-e	ADP-f	WDP
Y7-207147 (Reference)	Europe (Reference)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Germany	1.09	0.86	1.44	0.54	1.34	1.39	1.07	0.73	1.07	1.00	1.43	1.35	1.28
	UK	0.79	0.75	0.68	0.79	0.69	1.17	0.71	1.19	0.71	1.00	0.82	0.61	0.66
	Austria	1.65	0.23	0.44	0.01	0.40	0.63	0.37	0.65	0.37	1.00	0.37	0.36	1.10
	Netherlands	0.79	0.77	0.82	0.18	0.95	0.98	1.14	1.33	1.14	1.00	1.01	0.94	0.92
	India	0.60	2.47	5.48	0.16	5.13	3.64	3.93	0.25	3.94	1.00	4.74	5.44	2.69
	Czech Republic	0.45	1.66	2.21	1.77	2.05	1.77	1.59	0.44	1.59	1.00	2.02	2.12	1.20
	Finland	0.73	0.86	0.88	1.59	0.68	1.42	0.39	0.61	0.39	1.00	0.71	0.56	0.54
	Denmark	0.83	0.35	1.13	0.04	0.98	1.66	0.56	0.90	0.56	1.00	1.30	0.86	0.58

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		<i>Validity period</i>	5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2006			
Internal	X	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 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 »			