



Product Environmental Profile



T0 Switch with Flush Mount-1, 2 Chamber

Representative product	T0-2-1/EA/SVB (Y7-038873) Product Category: Switches														
Description of the product	The Eaton Moeller® series switches are designed to establish and cut off the supply of an electrical circuit. These switches are flush mounted. These switches have total 3 poles and is equipped with an emergency switching off function, enhancing safety by allowing immediate shutdown in urgent situations														
Homogeneous Environmental Families Covered	<p>The PEP concerns following product offerings from Eaton Moeller® series T0 switches, as mentioned below with T0-2-1/EA/SVB (Y7-038873) as Reference-</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">T0-1-8200/EA/SVB (Y7-053110)</td> <td style="width: 50%;">T0-2-15679/EA/SVB (Y7-081588)</td> </tr> <tr> <td>T0-1-8200/EA/SVB-SW (Y7-055483)</td> <td>T0-2-10/EA/SVB (Y7-011100)</td> </tr> <tr> <td>T0-1-102/EA/SVB (Y7-091078)</td> <td>T0-2-8900/EA/SVB (Y7-207400)</td> </tr> <tr> <td>T0-1-102/EA/SVB-SW (Y7-093451)</td> <td>T0-2-8900/EA/SVB-SW (Y7-207401)</td> </tr> <tr> <td>T0-2-1/EA/SVB-SW (Y7-041246)</td> <td>T0-2-15679/EA/SVB-SW (Y7-083961)</td> </tr> <tr> <td>T0-2-15169/EA/SVB (Y7-007975)</td> <td>T0-2-8324/EA/SVB (Y7-098847)</td> </tr> <tr> <td>T0-2-113/EA/SVB-SW (Y7-007952)</td> <td>T0-2-113/EA/SVB (Y7-011113)</td> </tr> </table> <p>*[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]</p>	T0-1-8200/EA/SVB (Y7-053110)	T0-2-15679/EA/SVB (Y7-081588)	T0-1-8200/EA/SVB-SW (Y7-055483)	T0-2-10/EA/SVB (Y7-011100)	T0-1-102/EA/SVB (Y7-091078)	T0-2-8900/EA/SVB (Y7-207400)	T0-1-102/EA/SVB-SW (Y7-093451)	T0-2-8900/EA/SVB-SW (Y7-207401)	T0-2-1/EA/SVB-SW (Y7-041246)	T0-2-15679/EA/SVB-SW (Y7-083961)	T0-2-15169/EA/SVB (Y7-007975)	T0-2-8324/EA/SVB (Y7-098847)	T0-2-113/EA/SVB-SW (Y7-007952)	T0-2-113/EA/SVB (Y7-011113)
T0-1-8200/EA/SVB (Y7-053110)	T0-2-15679/EA/SVB (Y7-081588)														
T0-1-8200/EA/SVB-SW (Y7-055483)	T0-2-10/EA/SVB (Y7-011100)														
T0-1-102/EA/SVB (Y7-091078)	T0-2-8900/EA/SVB (Y7-207400)														
T0-1-102/EA/SVB-SW (Y7-093451)	T0-2-8900/EA/SVB-SW (Y7-207401)														
T0-2-1/EA/SVB-SW (Y7-041246)	T0-2-15679/EA/SVB-SW (Y7-083961)														
T0-2-15169/EA/SVB (Y7-007975)	T0-2-8324/EA/SVB (Y7-098847)														
T0-2-113/EA/SVB-SW (Y7-007952)	T0-2-113/EA/SVB (Y7-011113)														
Functional unit	Establish, support and interrupt the rated current 20 A and rated voltage 690 V AC and with IP65 degree of protection for flush mount / 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 Claylands Avenue, Dukeries Industrial Estate, S81 7DJ, United Kingdom (ISO14001:2015) Email: productstewardship-es@eaton.com														

Constituent Materials			
Reference product mass	2.10E-01 kg (With packaging)		
Category PEP Material	Materials	Mass (kg)	Percentage (%)
Plastics	Polyamide66 Glass Fibre 30	6.52E-02	31.1%
Plastics	Polyamide 6	4.31E-02	20.5%
Others	Cardboard	3.12E-02	14.9%
Metals	Stainless steel	3.12E-02	14.8%
Metals	Brass ingot	2.40E-02	11.4%
Others	Label	5.86E-03	2.8%
Others	Paper	4.60E-03	2.2%
Plastics	Polyamide 66	3.18E-03	1.5%
Metals	Steel wire rod	8.76E-04	0.4%
Others	Polyethylene low density film	4.53E-04	0.2%
Plastics	Polycarbonate	2.50E-04	0.1%
Plastics	Ethylene propylene diene	1.40E-04	0.1%
Total		2.10E-01	100%

Substance Assessment
The representative product is compliant with the EU-RoHS Directive (2011/65/EU) with exemption and the product contain Perfluorobutane sulfonic acid (PFBS) and its salts 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 72.11% 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
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. System modelling was carried out using the commercial LCA software EIME v6.2.1-17 with database version CODDE-2024-06-04.

Indicators Set: PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v1.0	
Manufacturing Phase	The product is assembled as well as packed at Eaton facility Eaton Production International GmbH Claylands Avenue, Dukeries Industrial Estate, S81 7DJ, United Kingdom plant. Energy model used: United Kingdom
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	Product is installed in Europe. Treatment of packaging waste is considered in this phase as per country specific statistics given in PSR. Energy model used: Europe
Use Phase	Reference lifetime: 20 Years Usage profile: The product has power loss of 1.8 W at full load condition. For industrial and commercial applications under low voltage scenario considering 10% of the loading rate and 30% use time rate, total losses are 0.946 kWh over the 20 years. Product do not require any maintenance/replacement during useful life. Energy Model Used: Europe
End of life Phase	Product disposed with WEEE guidelines. Energy model used: Europe
Module-D	Module D is calculated according to PCR-ed4-EN-2021 09 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	D - Benefits and loads beyond the system boundaries
Climate change - total(GWP)	kg CO ₂ eq.	2.52E+00	1.81E+00	5.01E-02	1.17E-01	3.33E-01	2.16E-01	-9.32E-01
Climate change - fossil fuels (GWP-f)	kg CO ₂ eq.	2.42E+00	1.77E+00	5.01E-02	4.90E-02	3.33E-01	2.13E-01	-9.77E-01
Climate change – biogenics (GWP-b)	kg CO ₂ eq.	1.05E-01	3.38E-02	0.00E+00	6.79E-02	6.14E-04	2.47E-03	4.53E-02
Climate change - land use and land use transformation (GWP-lu)	kg CO ₂ eq.	5.86E-07	4.62E-07	0.00E+00	0.00E+00	0.00E+00	1.24E-07	-3.18E-07
Ozone depletion (ODP)	kg eq. CFC-11	1.38E-07	1.32E-07	7.68E-11	1.58E-09	1.62E-09	3.50E-09	-7.25E-08
Acidification (AP)	mole of H ⁺ eq.	1.57E-02	1.22E-02	3.17E-04	1.63E-04	1.71E-03	1.27E-03	-5.92E-03
Freshwater eutrophication (EP-fw)	kg P eq.	2.63E-04	1.22E-04	1.88E-08	5.79E-07	8.78E-07	1.39E-04	-1.57E-05
Marine aquatic eutrophication (EP-m)	kg of N eq.	2.49E-03	1.88E-03	1.49E-04	6.44E-05	2.08E-04	1.90E-04	-1.00E-03
Terrestrial eutrophication (EP-t)	mole of N eq.	2.51E-02	1.74E-02	1.63E-03	4.49E-04	3.34E-03	2.29E-03	-7.10E-03

Mandatory environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Photochemical ozone formation (POCP)	kg of NMVOC eq.	6.50E-03	4.70E-03	4.12E-04	1.08E-04	6.55E-04	6.23E-04	-2.17E-03
Depletion of abiotic resources – elements (ADPe)	kg eq. Sb	8.33E-05	7.89E-05	1.97E-09	3.55E-09	1.18E-07	4.30E-06	-4.13E-05
Depletion of abiotic resources - fossil fuels (ADP-f)	MJ	5.13E+01	3.37E+01	6.99E-01	4.71E-01	8.42E+00	8.06E+00	-1.67E+01
Water scarcity (WDP)	m ³ of eq. deprivation worldwide	8.96E-01	7.56E-01	1.90E-04	1.10E-02	2.55E-02	1.03E-01	-4.39E-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	D - Benefits and loads beyond the system boundaries
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	4.53E+00	1.84E+00	9.33E-04	1.68E-01	2.23E+00	2.89E-01	-2.61E-02
Use of renewable primary energy resources used as raw materials	MJ	1.54E+00	1.54E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-5.21E-01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	6.06E+00	3.37E+00	9.33E-04	1.68E-01	2.23E+00	2.89E-01	-5.47E-01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	4.77E+01	3.01E+01	6.99E-01	4.71E-01	8.42E+00	8.06E+00	-1.39E+01
Use of non-renewable primary energy resources used as raw materials	MJ	3.61E+00	3.61E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.75E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	5.13E+01	3.37E+01	6.99E-01	4.71E-01	8.42E+00	8.06E+00	-1.67E+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	m ₃	2.14E-02	1.79E-02	4.43E-06	4.45E-04	6.00E-04	2.41E-03	-1.02E-02
Hazardous waste disposed of	kg	5.85E+00	5.67E+00	0.00E+00	2.51E-03	1.46E-02	1.70E-01	-3.08E+00

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Non-hazardous waste disposed of	kg	1.77E+00	1.66E+00	1.76E-03	1.65E-02	5.63E-02	3.47E-02	-8.28E-02
Radioactive waste disposed of	kg	1.69E-04	1.43E-04	1.25E-06	2.70E-06	1.29E-05	8.95E-06	-3.64E-05
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	2.88E-01	9.87E-02	0.00E+00	3.43E-02	0.00E+00	1.55E-01	0.00E+00
Materials for energy recovery	kg	5.09E-03	4.61E-05	0.00E+00	3.92E-03	0.00E+00	1.12E-03	0.00E+00
Exported energy	MJ by energy vector	2.37E-04	0.00E+00	0.00E+00	2.37E-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.	1.74E-02	1.74E-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	D - Benefits and loads beyond the system boundaries
Emission of fine particles	incidence of diseases	1.54E-07	1.27E-07	2.58E-09	9.45E-10	1.38E-08	8.99E-09	-6.49E-08
Ionizing radiation, human health	kBq of U ²³⁵ eq.	2.05E+01	1.56E+01	1.22E-04	4.38E+00	4.79E-01	8.28E-02	-1.03E+01
Ecotoxicity, fresh water	CTUe	1.18E+03	1.18E+03	3.28E-02	6.39E-01	6.30E-01	6.27E-01	-1.07E+03
Human toxicity, cancer effects	CTUh	8.53E-07	8.49E-07	8.81E-13	4.45E-09	4.19E-11	1.42E-10	-4.61E-07
Human toxicity, non-cancer effects	CTUh	1.64E-07	1.52E-07	1.70E-11	1.41E-10	1.00E-09	1.05E-08	-7.80E-08
Impacts related to land use/soil quality	-	5.36E-01	2.28E-01	0.00E+00	1.25E-04	9.23E-03	2.98E-01	-8.86E-04
Total use of primary energy during the life cycle	MJ	5.74E+01	3.70E+01	7.00E-01	6.40E-01	1.06E+01	8.35E+00	-1.72E+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 for EU region:

Part No.	Description	Phases	ADP-e (kg Sb eq.)	ADP-f (MJ)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	GWP (kg CO2 eq.)	GWP-b (kg CO2 eq.)	GWP-f (kg CO2 eq.)	GWP-lu (kg CO2 eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVO C eq.)	WDP (m3 eq.)
Y7-038873 (Reference)	TO-2-1/EA/SVB	All Phase	1.00												

Part No.	Description	Phases	ADP-e (kg Sb eq.)	ADP-f (MJ)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	GWP (kg CO2 eq.)	GWP-b (kg CO2 eq.)	GWP-f (kg CO2 eq.)	GWP-lu (kg CO2 eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WDP (m3 eq.)	
Y7-041246	T0-2-1/EA/SVB-SW	All Phase	1.00													
Y7-053110	T0-1-8200/EA/SVB	Manufacturing	0.81	0.92	0.84	0.77	0.90	0.92	0.92	0.94	0.92	0.95	0.87	0.90	0.86	
		Distribution	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
		Installation	0.93	0.96	0.97	1.00	0.99	1.01	0.99	1.00	0.98	1.00	1.00	1.00	0.98	0.99
		EOL	0.73	0.90	0.83	0.73	0.84	0.84	0.86	0.73	0.87	0.73	0.81	0.85	0.80	
		Module - D	0.82	0.89	0.83	0.96	0.88	0.89	0.89	1.02	0.89	1.00	0.87	0.88	0.85	
Y7-055483	T0-1-8200/EA/SVB-SW	Manufacturing	0.81	0.92	0.84	0.77	0.90	0.92	0.92	0.94	0.92	0.95	0.87	0.90	0.86	
		Distribution	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
		Installation	0.93	0.96	0.97	1.00	0.99	1.01	0.99	1.00	0.98	1.00	1.00	1.00	0.98	0.99
		EOL	0.73	0.90	0.83	0.73	0.84	0.84	0.86	0.73	0.87	0.73	0.81	0.85	0.80	
		Module - D	0.82	0.89	0.83	0.96	0.88	0.89	0.89	1.02	0.89	1.00	0.87	0.88	0.85	
Y7-091078	T0-1-102/EA/SVB	Manufacturing	0.81	0.92	0.84	0.77	0.90	0.92	0.92	0.94	0.92	0.95	0.87	0.90	0.86	
		Distribution	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
		Installation	0.93	0.96	0.97	1.00	0.99	1.01	0.99	1.00	0.98	1.00	1.00	1.00	0.98	0.99
		EOL	0.73	0.90	0.83	0.73	0.84	0.84	0.86	0.73	0.87	0.73	0.81	0.85	0.80	
		Module - D	0.82	0.89	0.83	0.96	0.88	0.89	0.89	1.02	0.89	1.00	0.87	0.88	0.85	
Y7-093451	T0-1-102/EA/SVB-SW	Manufacturing	0.81	0.92	0.84	0.77	0.90	0.92	0.92	0.94	0.92	0.95	0.87	0.90	0.86	
		Distribution	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
		Installation	0.93	0.96	0.97	1.00	0.99	1.01	0.99	1.00	0.98	1.00	1.00	1.00	0.98	0.99
		EOL	0.73	0.90	0.83	0.73	0.84	0.84	0.86	0.73	0.87	0.73	0.81	0.85	0.80	
		Module - D	0.82	0.89	0.83	0.96	0.88	0.89	0.89	1.02	0.89	1.00	0.87	0.88	0.85	
Y7-007975	T0-2-15169/EA/SVB	Manufacturing	1.37	1.08	1.28	1.50	1.09	1.11	1.08	1.10	1.08	1.12	1.23	1.14	1.16	
		Distribution	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
		Installation	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	1.00
		EOL	1.57	1.08	1.28	1.57	1.22	1.23	1.17	1.56	1.16	1.57	1.31	1.22	1.39	
		Module - D	1.33	1.06	1.26	1.02	1.06	1.09	1.07	0.98	1.06	1.00	1.21	1.12	1.11	
Y7-081588	T0-2-15679/EA/SVB	Manufacturing	1.37	1.08	1.28	1.50	1.09	1.11	1.08	1.10	1.08	1.12	1.23	1.14	1.16	
		Distribution	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
		Installation	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	1.00
		EOL	1.57	1.08	1.28	1.57	1.22	1.23	1.17	1.56	1.16	1.57	1.31	1.22	1.39	
		Module - D	1.33	1.06	1.26	1.02	1.06	1.09	1.07	0.98	1.06	1.00	1.21	1.12	1.11	
Y7-011100	T0-2-10/EA/SVB	Manufacturing	1.37	1.08	1.28	1.50	1.09	1.11	1.08	1.10	1.08	1.12	1.23	1.14	1.16	
		Distribution	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
		Installation	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	1.00
		EOL	1.57	1.08	1.28	1.57	1.22	1.23	1.17	1.56	1.16	1.57	1.31	1.22	1.39	
		Module - D	1.33	1.06	1.26	1.02	1.06	1.09	1.07	0.98	1.06	1.00	1.21	1.12	1.11	
Y7-207400	T0-2-8900/EA/SVB	Manufacturing	1.37	1.08	1.28	1.50	1.09	1.11	1.08	1.10	1.08	1.12	1.23	1.14	1.16	
		Distribution	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09

Part No.	Description	Phases	ADP-e (kg Sb eq.)	ADP-f (MJ)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	GWP (kg CO2 eq.)	GWP-b (kg CO2 eq.)	GWP-f (kg CO2 eq.)	GWP-lu (kg CO2 eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WDP (m3 eq.)
		Installation	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
		EOL	1.57	1.08	1.28	1.57	1.22	1.23	1.17	1.56	1.16	1.57	1.31	1.22	1.39
		Module - D	1.33	1.06	1.26	1.02	1.06	1.09	1.07	0.98	1.06	1.00	1.21	1.12	1.11
Y7-207401	T0-2-8900/EA/SVB-SW	Manufacturing	1.37	1.08	1.28	1.50	1.09	1.11	1.08	1.10	1.08	1.12	1.23	1.14	1.16
		Distribution	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
		Installation	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
		EOL	1.57	1.08	1.28	1.57	1.22	1.23	1.17	1.56	1.16	1.57	1.31	1.22	1.39
		Module - D	1.33	1.06	1.26	1.02	1.06	1.09	1.07	0.98	1.06	1.00	1.21	1.12	1.11
Y7-083961	T0-2-15679/EA/SVB-SW	Manufacturing	1.37	1.08	1.28	1.50	1.09	1.11	1.08	1.10	1.08	1.12	1.23	1.14	1.16
		Distribution	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
		Installation	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
		EOL	1.57	1.08	1.28	1.57	1.22	1.23	1.17	1.56	1.16	1.57	1.31	1.22	1.39
		Module - D	1.33	1.06	1.26	1.02	1.06	1.09	1.07	0.98	1.06	1.00	1.21	1.12	1.11
Y7-098847	T0-2-8324/EA/SVB	Manufacturing	1.37	1.08	1.28	1.50	1.09	1.11	1.08	1.10	1.08	1.12	1.23	1.14	1.16
		Distribution	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
		Installation	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
		EOL	1.57	1.08	1.28	1.57	1.22	1.23	1.17	1.56	1.16	1.57	1.31	1.22	1.39
		Module - D	1.33	1.06	1.26	1.02	1.06	1.09	1.07	0.98	1.06	1.00	1.21	1.12	1.11
Y7-011113	T0-2-113/EA/SVB	Manufacturing	1.37	1.08	1.28	1.50	1.09	1.11	1.08	1.10	1.08	1.12	1.23	1.14	1.16
		Distribution	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
		Installation	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
		EOL	1.57	1.08	1.28	1.57	1.22	1.23	1.17	1.56	1.16	1.57	1.31	1.22	1.39
		Module - D	1.33	1.06	1.26	1.02	1.06	1.09	1.07	0.98	1.06	1.00	1.21	1.12	1.11
Y7-007952	T0-2-113/EA/SVB-SW	Manufacturing	1.37	1.08	1.28	1.50	1.09	1.11	1.08	1.10	1.08	1.12	1.23	1.14	1.16
		Distribution	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
		Installation	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
		EOL	1.57	1.08	1.28	1.57	1.22	1.23	1.17	1.56	1.16	1.57	1.31	1.22	1.39
		Module - D	1.33	1.06	1.26	1.02	1.06	1.09	1.07	0.98	1.06	1.00	1.21	1.12	1.11

Multiplying Factors for Use Phase for EU region-

Part No.	Description	Extrapolation Factor for Use Phase (Only B6)
Y7-038873 (Reference)	T0-2-1/EA/SVB	1.00
Y7-053110	T0-1-8200/EA/SVB	0.33
Y7-055483	T0-1-8200/EA/SVB-SW	0.33
Y7-091078	T0-1-102/EA/SVB	0.67
Y7-093451	T0-1-102/EA/SVB-SW	0.67
Y7-041246	T0-2-1/EA/SVB-SW	1.00

Part No.	Description	Extrapolation Factor for Use Phase (Only B6)
Y7-07975	T0-2-15169/EA/SVB	1.33
Y7-081588	T0-2-15679/EA/SVB	1.33
Y7-011100	T0-2-10/EA/SVB	1.33
Y7-207400	T0-2-8900/EA/SVB	1.33
Y7-207401	T0-2-8900/EA/SVB-SW	1.33
Y7-083961	T0-2-15679/EA/SVB-SW	1.33
Y7-098847	T0-2-8324/EA/SVB	1.33
Y7-011113	T0-2-113/EA/SVB	1.33
Y7-007952	T0-2-113/EA/SVB-SW	1.33

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


Product	Geographical regions	Phases	ADP-e (kg Sb eq.)	ADP-f (MJ)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	GWP (kg CO2 eq.)	GWP-b (kg CO2 eq.)	GWP-f (kg CO2 eq.)	GWP-lu (kg CO2 eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WDP (m3 eq.)
Y7-038873 (Reference)	Europe (Reference)	All Phase	1.00												
	United Kingdom	Manufacturing, Installation, EoL, Module-D	1.00												
		Distribution	0.29												
		Installation	0.93	0.96	0.97	1.00	0.99	1.01	0.99	1.00	0.98	1.00	1.00	0.98	0.99
	Outside Europe	Manufacturing	1.00												
		Distribution	1.22	1.22	7.00	1.23	3.56	3.55	1.34	1.00	1.34	1.00	1.14	3.63	1.17
		Installation	0.30	0.58	0.55	0.02	0.35	0.65	0.69	0.96	0.30	1.00	0.33	0.58	0.06
		End of Life	0.01	0.22	0.54	0.01	0.91	0.97	0.46	0.11	0.46	0.01	2.34	0.80	0.09

Factors for use phase for different geographical regions

Product	Geographical regions	ADP-e (kg Sb eq.)	ADP-f (MJ)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	GWP (kg CO2 eq.)	GWP-b (kg CO2 eq.)	GWP-f (kg CO2 eq.)	GWP-lu (kg CO2 eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WDP (m3 eq.)
Y7-038873 (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	1.50	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	0.67	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	0.43	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	0.80	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	5.87	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	2.35	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	0.91	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	1.16	0.04	0.98	1.66	0.56	0.90	0.56	1.00	1.30	0.86	0.58

Disclaimer

This Product Environmental Profile and its content is based on information available to us. It refers to the product at the date of issue. We make no express or implied representations or warranties with respect to the information contained herein.

<i>Registration Number</i>	EATO-00178-V01.01-EN	<i>Drafting rules</i>	PCR-ed4-EN-2021 09 06
<i>Verifier accreditation Number</i>	VH53	Supplemented by	PSR-0005-ed3.1-EN-2023 08 12
<i>Date of issue</i>	07-2024	<i>Information and reference documents</i>	www.pep-ecopassport.org
		<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)			
<i>PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019</i>			
<i>The components of the present PEP may not be compared with components from any other program.</i>			
<i>Document complies with ISO 14025: 2006 « Environmental labels and declarations. Type III environmental declarations »</i>			