Powering Business Worldwide	**Product Environmental Profile**	PEP ecopassport®

	**P3 Switch Disconnector with I5 Enclosure and Red/Yellow Handle**

Representative product	P3-100/I5/SVB (207373) PSR Product Category: Disconnectors
Description of the product	Eaton's Switch Disconnector are designed to turn off all or part of an electrical installation by disconnecting the installation or part of the installation of all electrical energy, for maintenance (safety) reasons. These switch disconnectors have total 3 poles with rotary Black handle and locking ring, Lockable in the 0 (Off) position, surface mounting and with STOP Function.
Homogeneous Environmental Families Covered	The PEPs concern the following product offerings from Eaton Moeller® series P3 switch disconnector, as mentioned below: 207373 P3-100/I5/SVB 207374 P3-100/I5/SVB-SW EP-400982 P3-80/I5/SVB EP-400987 P3-80/I5/SVB-SW
Functional unit	"Turn off all or part of an installation by separating the installation or part of the installation of all electrical energy or earth, for safety reasons with a rated voltage 690V, and rated current 100A, ensuring isolation characterised by a rated voltage 6000 V AC, and with IP65 Rating, according to the appropriate use scenario, and during 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 Email: productstewardship-es@eaton.com

Constituent Materials			
Reference product mass	1.82E+00 kg (With packaging)		
Category PEP Material	**Materials**	**Mass (kg)**	**Percentage (%)**
Plastics	Polycarbonate (PC)	1.05E+00	57.5%
Other	Cardboard	1.96E-01	10.8%
Other	Wood	1.75E-01	9.6%
Plastics	Polyamide 66 with 30% glass fibers	1.64E-01	9.0%
Plastics	Polyamide 6 (PA 6)	7.42E-02	4.1%
Metals	Steel	6.03E-02	3.3%
Metals	Copper	3.45E-02	1.9%
Metals	Stainless steel	1.69E-02	0.9%
Plastics	Polyamide 66 (PA 66)	1.45E-02	0.8%
Plastics	Phenolic resin	1.33E-02	0.7%
Metals	Zinc	6.94E-03	0.4%
Plastics	Polybutylene terephthalate (PBT)	6.70E-03	0.4%
Metals	Silver	6.24E-03	0.3%
Other	Paper	2.95E-03	0.2%
Plastics	Polyethylene low density (LDPE)	4.54E-04	<0.1%
Other	Miscellaneous	9.71E-04	<0.1%
Total		1.82E+00	100.0%

Substance Assessment
The representative product is compliant with the EU-RoHS Directive (2011/65/EU) without exemption and the product does 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 16.2% if it is properly dismantled prior to shredding. The rate is calculated based on the method described in IEC/TR 62635, Edition 1.0/2012-10 Guidelines for end-of-life information provided by manufacturers and recyclers and for recyclability rate calculation of electrical and electronic equipment.

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 v6.3 with database version CODDE-2025-04. Indicators Set: PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0	
Manufacturing Phase	The product is assembled as well as packed at Eaton Production International GmbH, 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 22.5W at full load condition. For industrial and commercial applications under low voltage scenario considering 50% of the loading rate and 30% use time rate, total losses are 295.65 kWh over the 20 years. Product do not require any maintenance/replacement during useful life. Energy Model Used: Europe
End of life Phase	Product is 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.	1.30E+02	8.61E+00	4.09E-01	9.47E-01	1.20E+02	6.30E-01	-6.39E-01
Climate change - fossil fuels (GWP-f)	kg CO_2 eq.	1.27E+02	8.90E+00	4.09E-01	3.60E-01	1.17E+02	6.26E-01	-9.41E-01
Climate change – biogenics (GWP-b)	kg CO_2 eq.	2.94E+00	-2.91E-01	1.67E-06	5.87E-01	2.64E+00	3.75E-03	3.02E-01
Climate change - land use and land use transformation (GWP-lu)	kg CO_2 eq.	1.56E-03	1.56E-03	6.18E-07	5.50E-09	0.00E+00	6.92E-08	0.00E+00

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
Ozone depletion (ODP)	kg eq. CFC-11	9.43E-07	3.84E-07	4.96E-09	4.02E-09	5.12E-07	3.80E-08	-1.13E-07
Acidification (AP)	mole of H^+ eq.	6.72E-01	4.10E-02	6.46E-04	8.27E-04	6.26E-01	3.95E-03	-9.36E-03
Freshwater eutrophication (EP-fw)	kg P eq.	4.15E-04	1.12E-04	1.53E-06	3.52E-06	2.86E-04	1.19E-05	-9.61E-06
Marine aquatic eutrophication (EP-m)	kg of N eq.	8.06E-02	6.10E-03	1.17E-04	3.22E-04	7.32E-02	8.52E-04	-9.33E-04
Terrestrial eutrophication (EP-t)	mole of N eq.	1.26E+00	6.87E-02	1.28E-03	2.56E-03	1.17E+00	1.11E-02	-9.91E-03
Photochemical ozone formation (POCP)	kg of NMVOC eq.	2.58E-01	2.19E-02	4.15E-04	6.20E-04	2.32E-01	2.51E-03	-3.38E-03
Depletion of abiotic resources – elements (ADPe)	kg eq. Sb	8.80E-03	8.76E-03	1.46E-07	1.54E-08	3.87E-05	8.85E-08	-3.30E-03
Depletion of abiotic resources - fossil fuels (ADP-f)	MJ	3.10E+03	2.15E+02	7.26E+00	2.70E+00	2.87E+03	1.13E+01	-1.21E+01
Water scarcity (WDP)	m^3 of eq..	1.13E+01	2.13E+00	1.47E-02	2.09E-02	9.06E+00	5.88E-02	-7.98E-01

*Only B6 (Energy Consumption) is taken into account, the other sub-modules of the use phase (B1-B5, B7) are zero

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	6.88E+02	1.54E+01	2.29E-02	1.12E+00	6.71E+02	8.02E-01	-4.42E-01
Use of renewable primary energy resources used as raw materials	MJ	7.74E+00	7.74E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.92E+00
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	6.96E+02	2.32E+01	2.29E-02	1.12E+00	6.71E+02	8.02E-01	-4.37E+00
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	3.06E+03	1.71E+02	7.26E+00	2.70E+00	2.87E+03	1.13E+01	-1.21E+01
Use of non-renewable primary energy resources used as raw materials	MJ	4.37E+01	4.37E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.00E-03
Total use of non-renewable primary energy resources (primary	MJ	3.10E+03	2.15E+02	7.26E+00	2.70E+00	2.87E+03	1.13E+01	-1.21E+01

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
energy and primary energy resources used as raw materials)								
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	2.65E-01	5.00E-02	3.43E-04	1.48E-03	2.12E-01	1.51E-03	-1.86E-02
Hazardous waste disposed of	kg	3.39E+01	2.88E+01	1.71E-03	3.39E-02	3.30E+00	1.83E+00	-1.10E+01
Non-hazardous waste disposed of	kg	2.29E+01	4.17E+00	3.79E-02	1.39E-01	1.80E+01	5.40E-01	-7.25E-01
Radioactive waste disposed of	kg	6.40E-03	2.05E-03	3.01E-05	1.79E-05	4.25E-03	4.96E-05	-3.76E-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	4.97E-01	1.91E-01	0.00E+00	2.15E-01	0.00E+00	9.03E-02	-4.12E-08
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ by energy vector	5.79E-02	0.00E+00	0.00E+00	5.79E-02	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.	1.75E-01	1.75E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*Only B6 (Energy Consumption) is taken into account, the other sub-modules of the use phase (B1-B5, B7) are zero

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	5.26E-06	3.26E-07	5.54E-09	4.94E-09	4.90E-06	2.60E-08	-9.25E-08
Ionizing radiation, human health	kBq of U^{235} eq.	1.65E+02	8.51E+00	1.45E-02	3.84E-02	1.56E+02	2.10E-01	-1.39E-01
Ecotoxicity, fresh water	CTUe	4.67E+03	4.46E+03	1.19E+01	3.59E+00	1.79E+02	1.53E+01	-1.34E+01
Human toxicity, cancer effects	CTUh	6.07E-07	5.69E-07	8.01E-11	2.35E-08	1.48E-08	1.66E-10	-2.40E-07
Human toxicity, non-cancer effects	CTUh	7.78E-07	4.18E-07	1.53E-09	8.22E-10	3.50E-07	7.51E-09	-8.74E-08
Impacts related to land use/soil quality	-	7.56E+00	4.38E+00	1.75E-03	1.17E-03	3.17E+00	1.20E-02	-8.28E-05
Total use of primary energy during the life cycle	MJ	3.80E+03	2.38E+02	7.28E+00	3.82E+00	3.54E+03	1.21E+01	-1.65E+01

*Only B6 (Energy Consumption) is taken into account, the other sub-modules of the use phase (B1-B5, B7) are zero

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 market):

Part No.	Description	Extrapolation Factors for Manufacturing, distribution, installation, Use, End of Life and Module-D phase
207373 (Reference)	P3-100/I5/SVB	1.00
207374	P3-100/I5/SVB-SW	1.00
EP-400982	P3-80/I5/SVB	1.00
EP-400987	P3-80/I5/SVB-SW	1.00

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		Validity period	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 »			