



NZM3 Molded Case Circuit Breaker (IEC) with Electronic Trip Unit and Plug-in Technology

Representative product	NZMH3-4-VE630-SVE (Y7-168888) Product Category: Circuit Breakers
Description of the product	Eaton Moeller series NZM molded case circuit breaker with electronic trip unit and plug-in technology is designed to protect the installation from overload and short circuits. It is used in unearthed supply systems up to 690 V. It comes with Built-in device plug-in technique as mounting method.
Homogeneous Environmental Families Covered	The PEP concerns following product offerings from Eaton Moeller series NZM molded case circuit breaker with electronic trip unit as mentioned below: • Series: NZM Circuit Breaker • Switching Capacity: H (High), N (Normal), S (Strong) • Rated Current – Classic full Electronics (VE): 250A, 400A, 630A, • Rated Current – Classic Motor Electronics (AE): 220A, 350A, 450A, • No. of Poles: 3, 4 • Mounting Method – Plug-in Unit
Functional unit	“Protect the installation from overloads and short circuits in a circuit with rated voltage 690V, rated current 630A, with 4 poles, a rated breaking capacity 35 kA, and IP20 Rating, in the Industrial application area, according to the appropriate use scenario, and during the reference service life of the product of 20 years.”
Company information	Eaton Electro Productie s.r.l, Independentei 8, Sarbi, Romania, 437157 Email: productstewardship-es@eaton.com

Constituent Materials			
Reference product mass	1.14E+01 Kg (With packaging)		
Category PEP Material	Material constituent	Mass (kg)	% Contribution
Metals	Steel	2.93E+00	25.8%
Metals	Copper	2.41E+00	21.2%
Plastics	Unsaturated Polyester Resin	1.61E+00	14.2%
Metals	Stainless Steel	1.43E+00	12.6%
Plastics	Polycarbonate	1.17E+00	10.3%
others	Cardboard	7.65E-01	6.7%
Plastics	Polyamide66	3.27E-01	2.9%
Plastics	Polyphenylene Sulfide	2.15E-01	1.9%
Plastics	Polypropylene	1.40E-01	1.2%
others	Wood	1.17E-01	1.0%
Others	PWB	6.17E-02	0.5%
Plastics	Polyamide66 GF30	4.70E-02	0.4%
Metals	Silver	3.76E-02	0.3%
Plastics	Polybutylene Terephthalate GF30	2.70E-02	0.2%
Others	Paper	1.86E-02	0.2%
Others	Miscellaneous	4.88E-02	0.4%
Total		1.14E+01	100.0%

Substance Assessment

The representative product is compliant with the EU-RoHS Directive (2011/65/EU) with exemption and the product does contain lead and Perfluoro butane sulfonic acid (PFBS) and its salts and diboron trioxide and lead monoxide and Lead titanium zirconium oxide as 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 Sarbi, Romania 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 76.80% 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 v6.2.3 with database version CODDE-2024-06-04. 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 facility Eaton Electro Productie s.r.l, Independentei 8, Sarbi, Romania plant. Energy model used: Romania
Distribution Phase	Distribution of the product in its packaging from the Eaton's last logistics platform to the installation place in Europe is considered as per PCR rules.
Installation Phase	Product is installed in Europe. Installation of product and treatment of packaging waste are considered in this phase. There is no energy consumption for reference product. Energy model used: Europe
Use Phase	Reference lifetime: 20 Years Usage profile: The product has power loss of 178.61 W at full load condition. For Industrial applications considering 50% of the loading rate and 30% of the use time rate, total losses are 2346.9354 kWh over the 20 years. Product do not require any maintenance/replacement during useful life. Industrial application is considered as per PSR-0005 section 3.2.2. 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 CO2 eq.	9.24E+02	7.50E+01	2.71E+00	2.54E+00	8.27E+02	1.69E+01	-3.09E+01
Climate change - fossil fuels (GWP-f)	kg CO2 eq.	9.21E+02	7.52E+01	2.71E+00	1.08E+00	8.26E+02	1.64E+01	-3.12E+01
Climate change – biogenics (GWP-b)	kg CO2 eq.	3.28E+00	-1.80E-01	0.00E+00	1.46E+00	1.52E+00	4.74E-01	3.15E-01
Climate change - land use and land use transformation (GWP-lu)	kg CO2 eq.	1.63E-03	1.63E-03	0.00E+00	0.00E+00	0.00E+00	7.76E-06	-1.49E-03
Ozone depletion (ODP)	kg eq. CFC-11	1.26E-05	8.24E-06	4.16E-09	1.68E-08	4.01E-06	3.47E-07	-4.05E-06
Acidification (AP)	mole of H+ eq.	5.25E+00	8.91E-01	1.72E-02	2.93E-03	4.24E+00	1.03E-01	-4.78E-01
Freshwater eutrophication (EP-fw)	kg P eq.	2.30E-02	6.14E-03	1.02E-06	1.20E-05	2.18E-03	1.47E-02	-1.88E-04
Marine aquatic eutrophication (EP-m)	kg of N eq.	6.02E-01	6.12E-02	8.05E-03	1.29E-03	5.16E-01	1.53E-02	-2.13E-02
Terrestrial eutrophication (EP-t)	mole of N eq.	9.25E+00	6.96E-01	8.83E-02	8.86E-03	8.29E+00	1.64E-01	-2.33E-01
Photochemical ozone formation (POCP)	kg of NMVOC eq.	1.95E+00	2.51E-01	2.23E-02	2.11E-03	1.62E+00	4.88E-02	-1.01E-01
Depletion of abiotic resources – elements (ADPe)	kg eq. Sb	5.96E-02	5.89E-02	1.07E-07	4.81E-08	2.93E-04	4.75E-04	-2.36E-02
Depletion of abiotic resources - fossil fuels (ADP-f)	MJ	2.40E+04	2.14E+03	3.78E+01	9.19E+00	2.09E+04	9.54E+02	-8.11E+02
Water scarcity (WDP)	m3 of eq.. deprivation worldwide	1.73E+02	5.39E+01	1.03E-02	1.03E-01	6.34E+01	5.53E+01	-2.86E+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	5.62E+03	7.78E+01	5.05E-02	2.17E+00	5.53E+03	1.51E+01	-1.93E+01
Use of renewable primary energy resources used as raw materials	MJ	1.68E+01	1.68E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.22E+01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	5.64E+03	9.46E+01	5.05E-02	2.17E+00	5.53E+03	1.51E+01	-3.15E+01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	2.39E+04	2.03E+03	3.78E+01	9.19E+00	2.09E+04	9.54E+02	-7.61E+02

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 non-renewable primary energy resources used as raw materials	MJ	1.05E+02	1.05E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-5.01E+01
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	2.40E+04	2.14E+03	3.78E+01	9.19E+00	2.09E+04	9.54E+02	-8.11E+02
Use of secondary materials	kg	1.89E-05	1.89E-05	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	4.15E+00	1.26E+00	2.40E-04	6.34E-03	1.49E+00	1.40E+00	-6.66E-01
Hazardous waste disposed of	kg	6.92E+02	6.45E+02	0.00E+00	6.27E-02	3.63E+01	1.05E+01	-3.96E+02
Non-hazardous waste disposed of	kg	1.80E+02	3.71E+01	9.51E-02	3.70E-01	1.40E+02	3.03E+00	-9.63E+00
Radioactive waste disposed of	kg	5.21E-02	1.95E-02	6.78E-05	5.80E-05	3.21E-02	4.32E-04	-5.28E-03
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	1.20E+01	3.28E+00	0.00E+00	6.85E-01	0.00E+00	8.07E+00	-2.64E-07
Materials for energy recovery	kg	2.43E-01	6.16E-03	0.00E+00	1.09E-01	0.00E+00	1.27E-01	0.00E+00
Exported energy	MJ by energy vector	3.96E-02	0.00E+00	0.00E+00	3.96E-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.	3.94E-01	3.94E-01	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	4.29E-05	8.12E-06	1.40E-07	1.73E-08	3.41E-05	5.45E-07	-4.41E-06
Ionizing radiation, human health	kBq of U235 eq.	2.14E+03	9.33E+02	6.60E-03	1.78E+01	1.19E+03	1.90E+00	-6.38E+02
Ecotoxicity, fresh water	CTUe	8.08E+03	6.06E+03	1.78E+00	1.31E+01	1.56E+03	4.40E+02	-5.24E+03
Human toxicity, cancer effects	CTUh	1.80E-05	1.78E-05	4.76E-11	9.24E-08	1.04E-07	1.60E-08	-1.07E-05
Human toxicity, non-cancer effects	CTUh	1.29E-05	9.21E-06	9.22E-10	2.89E-09	2.48E-06	1.24E-06	-5.80E-06
Impacts related to land use/soil quality	-	8.94E+01	2.19E+01	0.00E+00	2.83E-03	2.29E+01	4.46E+01	-4.21E+00
Total use of primary energy during the life cycle	MJ	2.97E+04	2.23E+03	3.79E+01	1.14E+01	2.64E+04	9.69E+02	-8.43E+02

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

Factors for Manufacturing, Installation, End-of-Life, and Module-D Phase:

Product Number	Description	Phases	GWP	GWP-f	GW P-b	GW P-lu	ODP	AP	Ep-fw	Ep-m	Ep-t	POC P	ADP -e	ADP -f	WD P
Y7-168888	NZMH3-4-VE630-SVE (Reference)	All Phase	1.00												
Y7-168895	NZMH3-4-VE400/250-SVE	All Phase	1.00												
Y7-168887	NZMH3-4-VE400-SVE	All Phase	1.00												
Y7-168896	NZMH3-4-VE630/400-SVE	All Phase	1.00												
Y7-168514	NZMN3-4-VE400/250-SVE	All Phase	1.00												
Y7-168506	NZMN3-4-VE400-SVE	All Phase	1.00												
Y7-168515	NZMN3-4-VE630/400-SVE	All Phase	1.00												
Y7-168507	NZMN3-4-VE630-SVE	All Phase	1.00												
Y7-168537	NZMS3-4-VE400/250-SVE	All Phase	1.00												
Y7-168536	NZMS3-4-VE400-SVE	All Phase	1.00												
Y7-168539	NZMS3-4-VE630/400-SVE	All Phase	1.00												
Y7-168538	NZMS3-4-VE630-SVE	All Phase	1.00												
Y7-168910	NZMH3-ME220-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168911	NZMH3-ME350-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168912	NZMH3-ME450-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168907	NZMH3-VE250-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168908	NZMH3-VE400-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78

Product Number	Description	Phases	GWP	GWP-f	GW P-b	GW P-lu	ODP	AP	Ep-fw	Ep-m	Ep-t	POC P	ADP -e	ADP -f	WD P
Y7-168909	NZMH3-VE630-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168483	NZMN3-ME220-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168484	NZMN3-ME350-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168485	NZMN3-ME450-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168480	NZMN3-VE250-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168481	NZMN3-VE400-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168482	NZMN3-VE630-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168528	NZMS3-ME220-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168529	NZMS3-ME350-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78

Product Number	Description	Phases	GWP	GWP-f	GW P-b	GW P-lu	ODP	AP	Ep-fw	Ep-m	Ep-t	POC P	ADP -e	ADP -f	WD P
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168530	NZMS3-ME450-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168526	NZMS3-VE400-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78
Y7-168527	NZMS3-VE630-SVE	Manufacturing	0.75	0.75	2.39	0.77	0.85	0.75	0.75	0.74	0.74	0.75	0.67	0.71	0.78
		Distribution	0.75	0.75	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
		Installation	1.02	1.01	1.02	1.00	1.23	1.05	1.01	1.02	1.02	1.03	1.13	1.02	1.29
		End of Life	0.70	0.70	0.75	0.75	0.75	0.73	0.75	0.75	0.72	0.71	0.75	0.68	0.92
		Module-D	0.74	0.75	1.57	0.77	0.84	0.76	0.78	0.77	0.76	0.76	0.68	0.70	0.78

Multiplying Factors for Use Phase and Distribution Phase for homogenous products:

Product Number	Product Description	Use Phase Extrapolation Factors
Y7-168888	NZMH3-4-VE630-SVE (Reference)	1.00
Y7-168895	NZMH3-4-VE400/250-SVE	0.40
Y7-168887	NZMH3-4-VE400-SVE	0.40
Y7-168896	NZMH3-4-VE630/400-SVE	1.00
Y7-168514	NZMN3-4-VE400/250-SVE	0.40
Y7-168506	NZMN3-4-VE400-SVE	0.40
Y7-168515	NZMN3-4-VE630/400-SVE	1.00
Y7-168507	NZMN3-4-VE630-SVE	1.00
Y7-168537	NZMS3-4-VE400/250-SVE	0.40
Y7-168536	NZMS3-4-VE400-SVE	0.40
Y7-168539	NZMS3-4-VE630/400-SVE	1.00
Y7-168538	NZMS3-4-VE630-SVE	1.00
Y7-168910	NZMH3-ME220-SVE	0.08
Y7-168911	NZMH3-ME350-SVE	0.21
Y7-168912	NZMH3-ME450-SVE	0.34
Y7-168907	NZMH3-VE250-SVE	0.10

Product Number	Product Description	Use Phase Extrapolation Factors
Y7-168908	NZMH3-VE400-SVE	0.27
Y7-168909	NZMH3-VE630-SVE	0.67
Y7-168483	NZMN3-ME220-SVE	0.08
Y7-168484	NZMN3-ME350-SVE	0.21
Y7-168485	NZMN3-ME450-SVE	0.34
Y7-168480	NZMN3-VE250-SVE	0.10
Y7-168481	NZMN3-VE400-SVE	0.27
Y7-168482	NZMN3-VE630-SVE	0.67
Y7-168528	NZMS3-ME220-SVE	0.08
Y7-168529	NZMS3-ME350-SVE	0.21
Y7-168530	NZMS3-ME450-SVE	0.34
Y7-168526	NZMS3-VE400-SVE	0.27
Y7-168527	NZMS3-VE630-SVE	0.67

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.

Registration Number	EATO-00219-V01.01-EN	Drafting rules	PCR-ed4-EN-2021 09 06
Verifier accreditation Number	VH-56	Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	10-2024	Information and reference documents	www.pep-ecopassport.org
		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 »			