

Product Environmental Profile

METERING EZM MAIN BREAKER 800A 1 PHASE

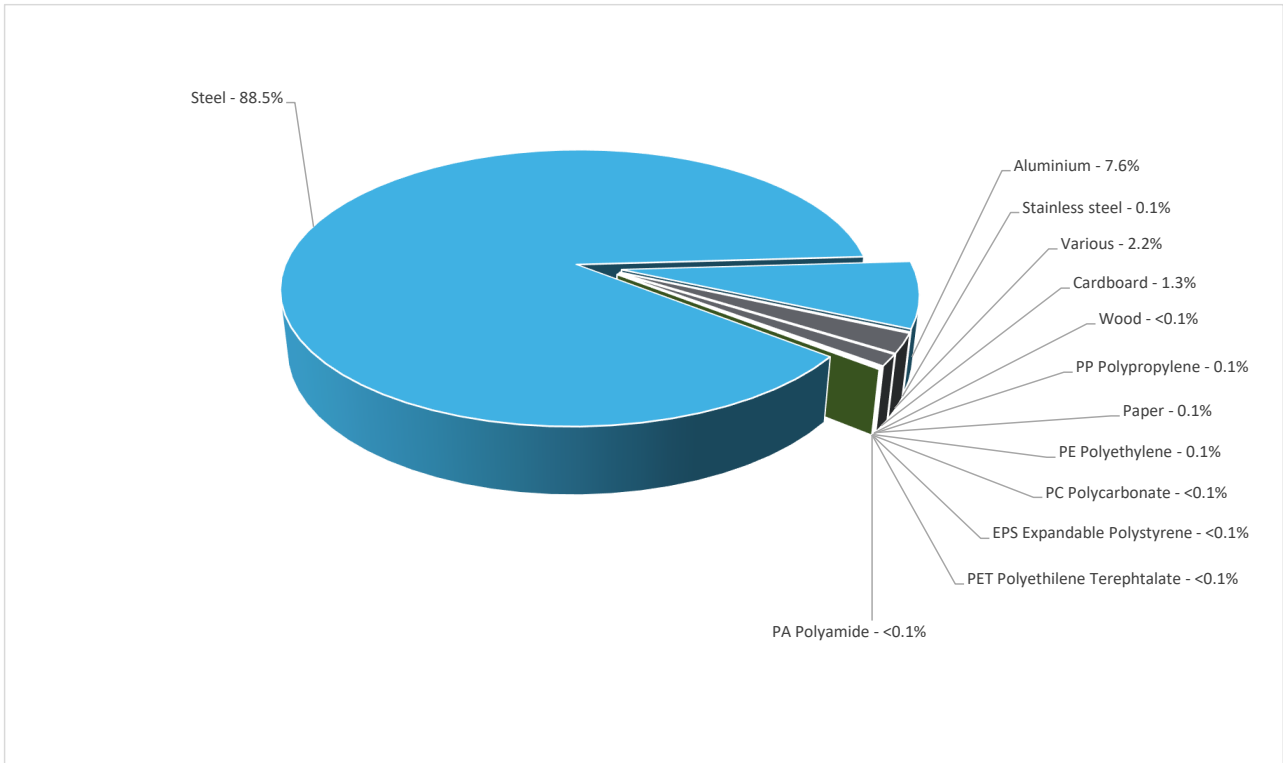


General information

Reference product	METERING EZM MAIN BREAKER 800A 1 PHASE - EZM1800CB
Description of the product	EZ Meter-Pak (EZM), Meter Center Suitable for use as service equipment and suitable for use on the line side of service equipment.
Description of the range	Single product
Functional unit	To ensure the protection of individuals from direct contact with live active parts and to facilitate the grouping of control, command, and protection devices within a single enclosure or cabinet of dimensions H x L x D, or an assembly of X enclosures or cabinets of the same dimensions, with a rated current I _n , designed for use in Household/Commercial applications. The unit shall protect the electrical installation from overloads and short circuits in a circuit with rated voltage U _e , rated current I _n , number of poles N _p , rated breaking capacity I _{cn} . The product is expected to perform its intended function reliably over a reference service life of 20 years.
Specifications are:	U _e , Rated operating voltage (V) = 600V I _n , Rated current (A) = 300A to 800A N _p , Number of poles / number of protected poles = 3 NOS I _{cn} , Rated breaking capacity (A) = 18 kA Current type = AC H, Height (mm) = 940mm L, Width (mm) = 330mm P, Depth (mm) = 215mm X, Total number of enclosures or cabinets = 1

Constituent materials

Reference product mass	51356.2 g	including the product and packaging
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Metals	96.2%
Others	3.6%
Plastics	0.2%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
<https://www.se.com>

Additional environmental information

End Of Life	Recyclability potential:	96%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).
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Environmental impacts

Reference service life time	20 years			
Product category	Combinations of functions			
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study			
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption			
Installation elements	The product installation requires little to no energy. The disposal of packaging materials is also accounted during the installation phase, including transport to disposal. The material constituents of the packaging are Cardboard (90.27%), Plastics (3.80), Paper (4.10%) and wood (1.83%)			
Use scenario	Load rate of 50% and a usage rate of 30%, the total power dissipation is 4.16 W, projected over a 20-year RLT			
Time representativeness	The collected data are representative of the year 2024			
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are similar and representative of the actual type of technologies used to make the product.			
Geographical representativeness	Final assembly site	Use phase		End-of-life
	Tlaxcala 2, Mexico	United States and Mexico		United States and Mexico
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Mexico, MX, Electricity Mix; RER Electricity Mix; GLO	Electricity Mix; RER	Electricity Mix; Low voltage; 2020; United States, US Electricity Mix; Low voltage; 2020; Mexico, MX	Global, European and French datasets are used.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Centre - <http://www.se.com/contact>

Mandatory Indicators		Main circuit breaker unit, EZ Meter-Pak, 800A, 120/240VAC, 1ph/3W, 800A bus, 65kA, OH/UG, Type 3R - EZM1800CB						
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to climate change	kg CO2 eq	2.28E+03	4.97E+02	9.40E+00	3.71E+00	1.69E+03	7.51E+01	-2.03E+02
Contribution to climate change-fossil	kg CO2 eq	2.27E+03	5.00E+02	9.40E+00	7.53E-01	1.68E+03	7.49E+01	-2.00E+02
Contribution to climate change-biogenic	kg CO2 eq	9.51E+00	0*	0*	2.96E+00	8.64E+00	2.29E-01	-2.32E+00
Contribution to climate change-land use and land use change	kg CO2 eq	5.35E-04	3.89E-04	8.75E-06	0*	1.15E-04	2.19E-05	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	5.37E-05	4.12E-05	3.28E-06	2.38E-08	6.88E-06	2.37E-06	-2.99E-05
Contribution to acidification	mol H+ eq	1.08E+01	2.76E+00	2.55E-02	4.15E-03	7.65E+00	3.54E-01	-1.52E+00
Contribution to eutrophication, freshwater	kg P eq	4.14E-03	1.18E-03	2.20E-05	8.56E-07	2.76E-03	1.81E-04	-4.30E-04
Contribution to eutrophication, marine	kg N eq	1.36E+00	3.17E-01	9.20E-03	1.10E-03	9.66E-01	6.46E-02	-1.17E-01
Contribution to eutrophication, terrestrial	mol N eq	1.61E+01	3.86E+00	9.99E-02	1.42E-02	1.14E+01	7.37E-01	-1.35E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.74E+00	1.31E+00	3.24E-02	3.05E-03	3.19E+00	2.04E-01	-4.82E-01
Contribution to resource use, minerals and metals	kg Sb eq	5.17E-02	5.10E-02	0*	0*	7.42E-04	0*	-4.96E-02
Contribution to resource use, fossils	MJ	4.47E+04	7.07E+03	1.48E+02	1.21E+01	3.65E+04	9.53E+02	-4.19E+03
Contribution to water use	m3 eq	5.20E+02	4.23E+02	3.93E-01	9.48E-02	8.58E+01	1.09E+01	-8.80E+01

Inventory flows Indicators		Main circuit breaker unit, EZ Meter-Pak, 800A, 120/240VAC, 1ph/3W, 800A bus, 65kA, OH/UG, Type 3R - EZM1800CB						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to renewable primary energy used as energy	MJ	4.95E+03	4.47E+02	0*	1.02E+00	4.45E+03	5.07E+01	-6.97E+01
Contribution to renewable primary energy used as raw material	MJ	4.86E+01	4.86E+01	0*	0*	0*	0*	0.00E+00
Contribution to total renewable primary energy	MJ	5.00E+03	4.95E+02	0*	1.02E+00	4.45E+03	5.07E+01	-6.97E+01
Contribution to non renewable primary energy used as energy	MJ	4.45E+04	6.93E+03	1.48E+02	1.21E+01	3.65E+04	9.53E+02	-4.19E+03
Contribution to non renewable primary energy used as raw material	MJ	1.46E+02	1.43E+02	0*	0*	2.86E+00	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	4.47E+04	7.07E+03	1.48E+02	1.21E+01	3.65E+04	9.53E+02	-4.19E+03
Contribution to use of secondary material	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of fresh water	m³	1.22E+01	9.86E+00	9.14E-03	2.19E-03	2.00E+00	3.26E-01	-2.05E+00
Contribution to hazardous waste disposed	kg	1.32E+03	1.28E+03	0*	6.95E-01	3.96E+01	6.02E-01	-3.91E+03
Contribution to non hazardous waste disposed	kg	8.86E+02	5.80E+02	5.41E-01	6.53E-01	2.50E+02	5.56E+01	-2.12E+02
Contribution to radioactive waste disposed	kg	3.72E-01	3.08E-01	1.15E-03	0*	6.03E-02	2.73E-03	-1.27E-01
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	5.01E+01	6.24E+00	0*	0*	6.24E-03	4.38E+01	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

* represents less than 0.01% of the total life cycle of the reference flow

Contribution to biogenic carbon content of the product	kg of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	1.53E-01

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		Main circuit breaker unit, EZ Meter-Pak, 800A, 120/240VAC, 1ph/3W, 800A bus, 65kA, OH/UG, Type 3R - EZM1800CB							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.69E+03	0*	3.42E+00	0*	0*	0*	1.69E+03	0*
Contribution to climate change-fossil	kg CO2 eq	1.68E+03	0*	3.40E+00	0*	0*	0*	1.68E+03	0*
Contribution to climate change-biogenic	kg CO2 eq	8.64E+00	0*	2.13E-02	0*	0*	0*	8.62E+00	0*
Contribution to climate change-land use and land use change	kg CO2 eq	1.15E-04	0*	1.15E-04	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	6.88E-06	0*	4.19E-07	0*	0*	0*	6.46E-06	0*
Contribution to acidification	mol H+ eq	7.65E+00	0*	1.40E-02	0*	0*	0*	7.64E+00	0*
Contribution to eutrophication, freshwater	kg P eq	2.76E-03	0*	1.64E-05	0*	0*	0*	2.75E-03	0*
Contribution to eutrophication marine	kg N eq	9.66E-01	0*	1.71E-03	0*	0*	0*	9.64E-01	0*
Contribution to eutrophication, terrestrial	mol N eq	1.14E+01	0*	1.92E-02	0*	0*	0*	1.14E+01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.19E+00	0*	5.70E-03	0*	0*	0*	3.19E+00	0*
Contribution to resource use, minerals and metals	kg Sb eq	7.42E-04	0*	4.85E-04	0*	0*	0*	2.57E-04	0*
Contribution to resource use, fossils	MJ	3.65E+04	0*	3.97E+01	0*	0*	0*	3.64E+04	0*
Contribution to water use	m3 eq	8.58E+01	0*	1.20E+00	0*	0*	0*	8.46E+01	0*

Inventory flows Indicators		Main circuit breaker unit, EZ Meter-Pak, 800A, 120/240VAC, 1ph/3W, 800A bus, 65kA, OH/UG, Type 3R - EZM1800CB							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.45E+03	0*	3.58E+00	0*	0*	0*	4.44E+03	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	4.45E+03	0*	3.58E+00	0*	0*	0*	4.44E+03	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.65E+04	0*	3.69E+01	0*	0*	0*	3.64E+04	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.86E+00	0*	2.86E+00	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	3.65E+04	0*	3.97E+01	0*	0*	0*	3.64E+04	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	2.00E+00	0*	2.76E-02	0*	0*	0*	1.97E+00	0*
Contribution to hazardous waste disposed	kg	3.96E+01	0*	8.51E+00	0*	0*	0*	3.11E+01	0*
Contribution to non hazardous waste disposed	kg	2.50E+02	0*	1.24E+00	0*	0*	0*	2.49E+02	0*
Contribution to radioactive waste disposed	kg	6.03E-02	0*	6.16E-04	0*	0*	0*	5.97E-02	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	6.24E-03	0*	6.24E-03	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version v6.2.5-6, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number :	ENVPEP2011003_V2-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
Validity period	5 years	Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	10-2025	Information and reference documents	www.pep-ecopassport.org
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
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 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 14021:2016 "Environmental labels and declarations. Type II environmental declarations"			

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