Product Environmental Profile

Easy9 EU Enclosure, Flush Mounted, 1 Row 12 Modules, 2 Earth/Neutral Terminal Blocks

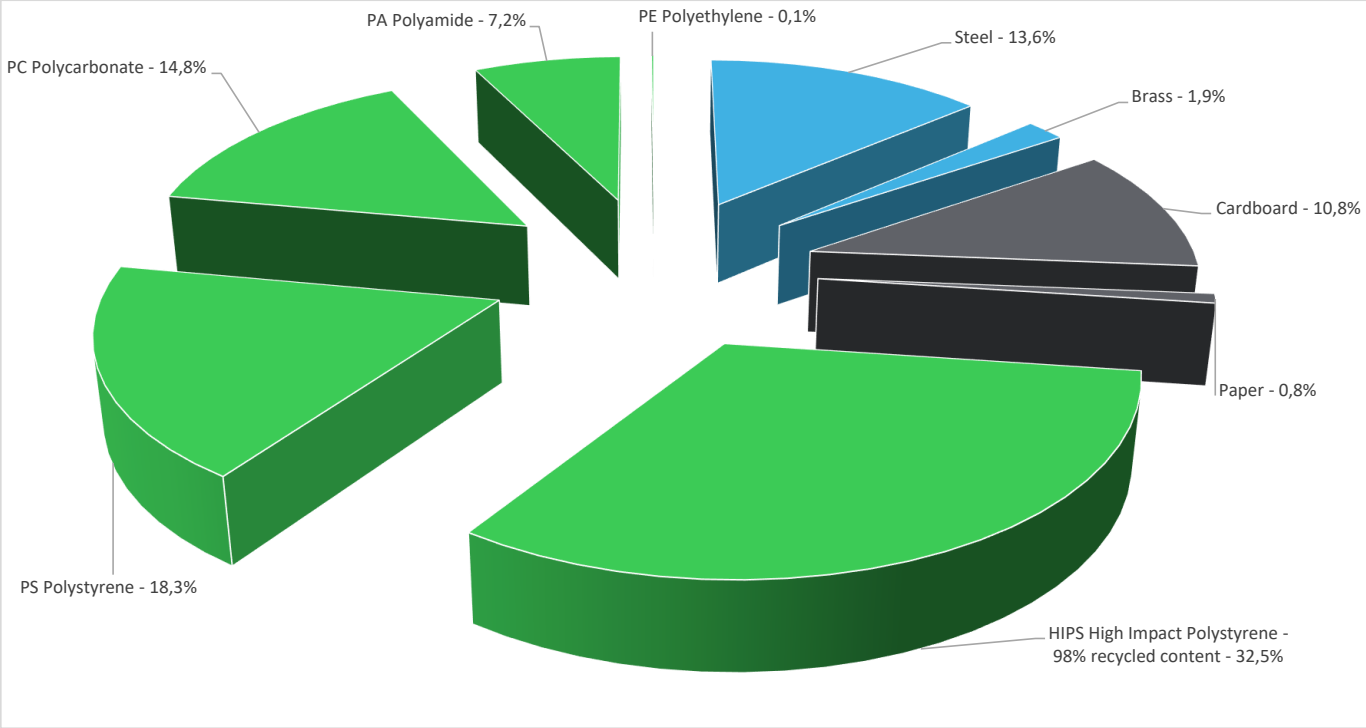
Representative of all Easy9 EU Enclosures (flush and surface) from 1 to 3 rows and 8 to 36 modules

General information

Reference product	Easy9 EU Enclosure, Flush Mounted, 1 Row 12 Modules, 2 Earth/Neutral Terminal Blocks - EZ9EUA112
Description of the product	Easy9 EU enclosures offer comfort and security for any project or home. It has a capacity of 12 modules and a translucent (smoke) door that offers visibility without compromising security. Made for easy installation, the Easy9 EU enclosures are perfect for residential, industrial or commercial use, having an IP40 degree of protection.
Description of the range	Representative of all Easy9 EU Enclosures (flush and surface) from 1 to 3 rows and 8 to 36 modules
Functional unit	Protect people from direct contact with live active parts and ensure the grouping of control, command and protection devices in a single enclosure or cabinet having the following dimensions 185 x 285 x 95.5mm, with rated current In, while protecting them against the penetration of solid objects and liquids (IP40),and with a degree of protection against external mechanical impacts (IK07) in accordance with the standard IEC 62262 according to the appropriate use scenario, and for the reference service life of the product of 20 years.

Constituent materials

Reference product mass	770 g	including the product, its packaging and additional elements and accessories



Plastics	72,9%
Metals	15,5%
Others	11,6%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information

End Of Life	Recyclability potential:	**16%**	The recyclability rate was calculated from the recycling rates of each material making up the product with the exception of data using the ESR database. For materials or components using the ESR database or the absence of data the conservative hypothesis "0% recyclability" was used.

Environmental impacts

Reference service life time	20 years
Product category	Combinaisons of functions
Installation elements	No special components needed
Use scenario	Load rate = 30% In Use rate = 90% RLT
Time representativeness	The collected data are representative of the year 2023
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCAEIME in this case) are Similar and representative of the actual type of technologies used to make the product
Geographical representativeness	Europe

Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Italy, IT	Europe, EU-27	Europe, EU-27	Europe, EU-27

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 Center - http://www.schneider-electric.com/contact

Mandatory Indicators		Easy9 EU Enclosure, Flush Mounted, 1 Row 12 Modules, 2 Earth/Neutral Terminal Blocks - EZ9EUA112						
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	6,03E+00	3,15E+00	1,98E-01	9,92E-02	4,65E-01	2,12E+00	1,23E-01
Contribution to climate change-fossil	kg CO2 eq	5,93E+00	3,05E+00	1,98E-01	9,45E-02	4,65E-01	2,12E+00	1,29E-01
Contribution to climate change-biogenic	kg CO2 eq	1,08E-01	1,02E-01	0*	4,65E-03	6,21E-04	0*	-5,79E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1,82E-04	1,82E-04	0*	0*	0*	0*	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	8,88E-08	8,38E-08	3,03E-10	1,29E-09	1,99E-09	1,43E-09	-6,13E-08
Contribution to acidification	mol H+ eq	1,87E-02	1,23E-02	1,32E-03	2,87E-04	2,66E-03	2,16E-03	-1,21E-03
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	4,61E-05	4,06E-05	7,42E-08	2,26E-06	1,27E-06	1,91E-06	-1,54E-07
Contribution to eutrophication marine	kg N eq	4,07E-03	2,36E-03	6,24E-04	1,25E-04	3,02E-04	6,63E-04	-4,69E-05
Contribution to eutrophication, terrestrial	mol N eq	4,50E-02	2,51E-02	6,84E-03	8,69E-04	4,53E-03	7,66E-03	-3,13E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	1,29E-02	7,93E-03	1,73E-03	1,99E-04	9,69E-04	2,05E-03	-1,13E-05
Contribution to resource use, minerals and metals	kg Sb eq	6,05E-05	6,05E-05	7,79E-09	0*	3,37E-08	1,85E-08	-1,29E-04
Contribution to resource use, fossils	MJ	1,16E+02	7,56E+01	2,76E+00	9,71E-01	1,19E+01	2,45E+01	2,73E+00
Contribution to water use	m3 eq	4,37E-01	1,50E-01	7,51E-04	8,41E-03	1,65E-02	2,62E-01	-6,77E-02

Inventory flows Indicators		Easy9 EU Enclosure, Flush Mounted, 1 Row 12 Modules, 2 Earth/Neutral Terminal Blocks - EZ9EUA112						
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 use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4,80E+00	2,38E+00	3,68E-03	1,27E-01	2,28E+00	1,19E-02	3,77E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1,88E+00	1,88E+00	0*	0*	0*	0*	-1,35E+00
Contribution to total use of renewable primary energy resources	MJ	6,68E+00	4,26E+00	3,68E-03	1,27E-01	2,28E+00	1,19E-02	-9,76E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,03E+02	6,26E+01	2,76E+00	9,71E-01	1,19E+01	2,45E+01	-7,82E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	1,30E+01	1,30E+01	0*	0*	0*	0*	1,05E+01
Contribution to total use of non-renewable primary energy resources	MJ	1,16E+02	7,56E+01	2,76E+00	9,71E-01	1,19E+01	2,45E+01	2,73E+00
Contribution to use of secondary material	kg	2,89E-01	2,89E-01	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 freshwater	m^3	1,23E-02	5,62E-03	1,75E-05	1,96E-04	3,83E-04	6,09E-03	-1,58E-03
Contribution to hazardous waste disposed	kg	4,25E+00	4,24E+00	0*	2,44E-03	8,69E-03	0*	-1,02E+01
Contribution to non hazardous waste disposed	kg	3,42E+00	2,69E+00	6,95E-03	4,25E-02	6,69E-02	6,19E-01	-2,03E-01
Contribution to radioactive waste disposed	kg	1,69E-03	1,64E-03	4,95E-06	5,24E-06	1,40E-05	2,34E-05	-2,93E-05
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	1,41E-01	3,52E-02	0*	3,51E-04	0*	1,06E-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	1,32E-02	9,13E-04	0*	4,00E-03	0*	8,28E-03	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 de C	0,00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	2,63E+01

Mandatory Indicators		Easy9 EU Enclosure, Flush Mounted, 1 Row 12 Modules, 2 Earth/Neutral Terminal Blocks - EZ9EUA112							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	4,65E-01	0*	0*	0*	0*	0*	4,65E-01	0*
Contribution to climate change-fossil	kg CO2 eq	4,65E-01	0*	0*	0*	0*	0*	4,65E-01	0*
Contribution to climate change-biogenic	kg CO2 eq	6,21E-04	0*	0*	0*	0*	0*	6,21E-04	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	1,99E-09	0*	0*	0*	0*	0*	1,99E-09	0*
Contribution to acidification	mol H+ eq	2,66E-03	0*	0*	0*	0*	0*	2,66E-03	0*
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	1,27E-06	0*	0*	0*	0*	0*	1,27E-06	0*
Contribution to eutrophication marine	kg N eq	3,02E-04	0*	0*	0*	0*	0*	3,02E-04	0*
Contribution to eutrophication, terrestrial	mol N eq	4,53E-03	0*	0*	0*	0*	0*	4,53E-03	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	9,69E-04	0*	0*	0*	0*	0*	9,69E-04	0*
Contribution to resource use, minerals and metals	kg Sb eq	3,37E-08	0*	0*	0*	0*	0*	3,37E-08	0*
Contribution to resource use, fossils	MJ	1,19E+01	0*	0*	0*	0*	0*	1,19E+01	0*
Contribution to water use	m3 eq	1,65E-02	0*	0*	0*	0*	0*	1,65E-02	0*

Inventory flows Indicators		Easy9 EU Enclosure, Flush Mounted, 1 Row 12 Modules, 2 Earth/Neutral Terminal Blocks - EZ9EUA112							
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	2,28E+00	0*	0*	0*	0*	0*	2,28E+00	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	2,28E+00	0*	0*	0*	0*	0*	2,28E+00	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,19E+01	0*	0*	0*	0*	0*	1,19E+01	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	1,19E+01	0*	0*	0*	0*	0*	1,19E+01	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	m^3	3,83E-04	0*	0*	0*	0*	0*	3,83E-04	0*
Contribution to hazardous waste disposed	kg	8,69E-03	0*	0*	0*	0*	0*	8,69E-03	0*
Contribution to non hazardous waste disposed	kg	6,69E-02	0*	0*	0*	0*	0*	6,69E-02	0*
Contribution to radioactive waste disposed	kg	1,40E-05	0*	0*	0*	0*	0*	1,40E-05	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	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 v6.1, database version 2023-02 in compliance with ISO14044 4, EF 3.0 method is applied, for biogenic carbon storage, assesment methodology 0/0 is used.

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

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 :	SCHN-01157-V01.01-EN	*Drafting rules*	PCR-4-ed4-EN-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH48	*Information and reference documents*	www.pep-ecopassport.org
Date of issue	05-2024	*Validity period*	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2006

Internal External X

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 14025:2006 "Environmental labels and declarations. Type III environmental declarations"

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