Product Environmental Profile

TransferPacT Active Automatic 1600A 400V 4P LCD Frame 1600A

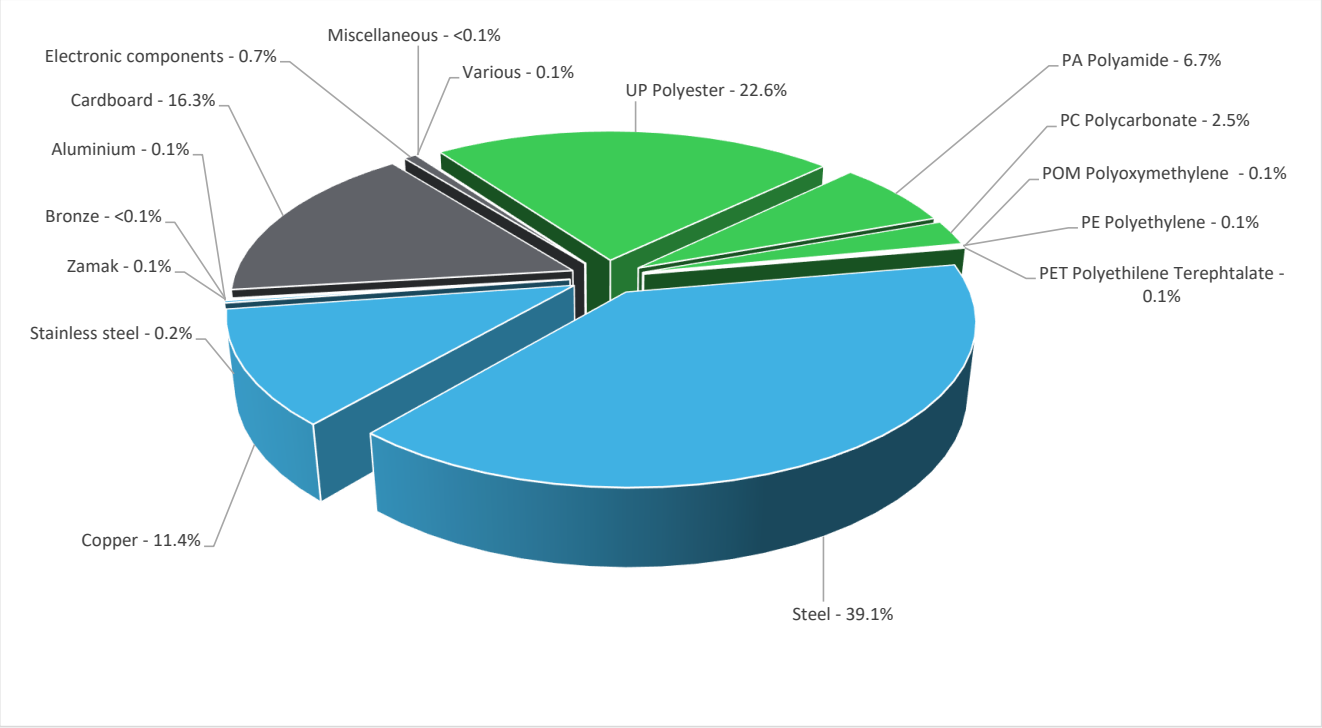
TransferPacT ATSE

General information

Reference product	TransferPacT Active Automatic 1600A 400V 4P LCD Frame 1600A - TA1AD4L16H4TPE
Description of the product	The main purpose of the product is to provide protection against overloads and short-circuits for industrial and commercial electrical distribution systems with current ratings from 630 to 1600 A and AC power systems up to 440 Vac.
Description of the range	The products of the range are: The range product report includes :rated current:800A-1600A,3P/4P,TransferPacT ATSE,AC,the representative product used for analysis is 4P 1600A (product number: TA1AD4L16H4TPE) The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	Other switchgear and controlgear solutions mentioned in the scope (e.g. fuses TC32, all-or-nothing relays TC94, Measuring relays and protection equipment TC95), apply the general rules of PCR and mention in the accompanying report the functional unit, the reference product characteristics, the reference lifetime and the use scenario which are applied consistently with the relevant IEC technical standards.
Specifications are:	X:2NO+2NO Ue:AC380V~440V Ie:800A~1600A Np:3P，4P Uc: 24V Category of use: AC33B/AC33A

Constituent materials

Reference product mass	87500 g	including the product, its packaging and additional elements and accessories



Plastic	32.10%
Metals	50.80%
Others	17.10%

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:	**64%**	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	10 years			
Product category	Other equipments - Active product			
Installation elements	The product does not require any installation operations			
Use scenario	Load rate = 50 % Ie Use rate = 50 % RLT			
Time representativeness	The collected data are representative of the year 2023			
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 représentaive of the actual type of technologies used to make the product.			
Geographical representativeness	Rest of the World			
Energy model used	**[A1 - A3]** Electricity Mix; Low voltage; 2018; China, CN	**[A5]** Electricity Mix; Low voltage; 2018; China, CN	**[B6]** Electricity Mix; Low voltage; 2018; China, CN	**[C1 - C4]** Electricity Mix; Low voltage; 2018; China, CN

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		TransferPacT Active Automatic 1600A 400V 4P LCD Frame 1600A - TA1AD4L16H4TPE						
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	2.10E+03	1.61E+03	2.90E+01	5.68E-01	2.40E+02	2.19E+02	-1.54E+02
Contribution to climate change-fossil	kg CO2 eq	1.99E+03	1.51E+03	2.90E+01	5.68E-01	2.40E+02	2.17E+02	-1.52E+02
Contribution to climate change-biogenic	kg CO2 eq	1.08E+02	1.05E+02	0*	0*	3.44E-02	2.11E+00	-2.20E+00
Contribution to climate change-land use and land use change	kg CO2 eq	2.46E-03	2.32E-03	0*	0*	0*	1.39E-04	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.62E-02	1.62E-02	0*	0*	0*	1.92E-06	-2.58E-05
Contribution to acidification	mol H+ eq	9.05E+00	6.36E+00	1.87E-01	7.31E-03	1.80E+00	6.97E-01	-2.39E+00
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	7.49E-02	1.16E-02	1.08E-05	0*	5.07E-05	6.32E-02	-2.32E-04
Contribution to eutrophication marine	kg N eq	1.07E+00	6.42E-01	8.77E-02	3.45E-03	1.92E-01	1.44E-01	-9.94E-02
Contribution to eutrophication, terrestrial	mol N eq	1.18E+01	6.94E+00	9.65E-01	3.52E-02	2.18E+00	1.65E+00	-1.16E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.59E+00	2.21E+00	2.48E-01	8.44E-03	6.42E-01	4.80E-01	-4.88E-01
Contribution to resource use, minerals and metals	kg Sb eq	6.91E-02	6.71E-02	0*	0*	0*	2.00E-03	-5.34E-02
Contribution to resource use, fossils	MJ	2.61E+04	1.43E+04	4.02E+02	6.22E+00	3.88E+03	7.47E+03	-3.34E+03
Contribution to water use	m3 eq	3.81E+02	2.46E+02	1.10E-01	1.29E+00	1.06E+01	1.23E+02	-1.30E+02

Inventory flows Indicators		TransferPacT Active Automatic 1600A 400V 4P LCD Frame 1600A - TA1AD4L16H4TPE						
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	7.33E+02	2.67E+02	5.37E-01	0*	4.11E+02	5.39E+01	-6.46E+01
Contribution to use of renewable primary energy resources used as raw material	MJ	4.36E+01	4.36E+01	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	7.76E+02	3.11E+02	5.37E-01	0*	4.11E+02	5.39E+01	-6.46E+01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.55E+04	1.38E+04	4.02E+02	6.22E+00	3.88E+03	7.47E+03	-3.34E+03
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.14E+02	5.14E+02	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2.61E+04	1.43E+04	4.02E+02	6.22E+00	3.88E+03	7.47E+03	-3.34E+03
Contribution to use of secondary material	kg	1.37E+01	1.37E+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	8.91E+00	5.76E+00	2.55E-03	2.99E-02	2.47E-01	2.87E+00	-3.03E+00
Contribution to hazardous waste disposed	kg	5.28E+03	5.27E+03	0*	0*	7.29E+00	2.34E+00	-4.38E+03
Contribution to non hazardous waste disposed	kg	4.64E+02	3.67E+02	1.01E+00	1.40E+01	4.18E+01	4.02E+01	-1.09E+02
Contribution to radioactive waste disposed	kg	9.32E-02	8.76E-02	7.21E-04	1.17E-05	1.71E-03	3.18E-03	-5.07E-02
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	6.88E+01	6.82E+00	0*	0*	0*	6.20E+01	0.00E+00
Contribution to materials for energy recovery	kg	2.57E-08	2.57E-08	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	4.90E-01	6.52E-02	0*	0*	0*	4.24E-01	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	3.93E+00

Mandatory Indicators		TransferPacT Active Automatic 1600A 400V 4P LCD Frame 1600A - TA1AD4L16H4TPE							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	2.40E+02	0*	0*	0*	0*	0*	2.40E+02	0*
Contribution to climate change-fossil	kg CO2 eq	2.40E+02	0*	0*	0*	0*	0*	2.40E+02	0*
Contribution to climate change-biogenic	kg CO2 eq	3.44E-02	0*	0*	0*	0*	0*	3.44E-02	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	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to acidification	mol H+ eq	1.80E+00	0*	0*	0*	0*	0*	1.80E+00	0*
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	5.07E-05	0*	0*	0*	0*	0*	5.07E-05	0*
Contribution to eutrophication marine	kg N eq	1.92E-01	0*	0*	0*	0*	0*	1.92E-01	0*
Contribution to eutrophication, terrestrial	mol N eq	2.18E+00	0*	0*	0*	0*	0*	2.18E+00	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	6.42E-01	0*	0*	0*	0*	0*	6.42E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, fossils	MJ	3.88E+03	0*	0*	0*	0*	0*	3.88E+03	0*
Contribution to water use	m3 eq	1.06E+01	0*	0*	0*	0*	0*	1.06E+01	0*

Inventory flows Indicators		TransferPacT Active Automatic 1600A 400V 4P LCD Frame 1600A - TA1AD4L16H4TPE							
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	4.11E+02	0*	0*	0*	0*	0*	4.11E+02	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	4.11E+02	0*	0*	0*	0*	0*	4.11E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.88E+03	0*	0*	0*	0*	0*	3.88E+03	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	3.88E+03	0*	0*	0*	0*	0*	3.88E+03	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	2.47E-01	0*	0*	0*	0*	0*	2.47E-01	0*
Contribution to hazardous waste disposed	kg	7.29E+00	0*	0*	0*	0*	0*	7.29E+00	0*
Contribution to non hazardous waste disposed	kg	4.18E+01	0*	0*	0*	0*	0*	4.18E+01	0*
Contribution to radioactive waste disposed	kg	1.71E-03	0*	0*	0*	0*	0*	1.71E-03	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, EF 3.0 method is applied, for biogenic carbon storage, assessment 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.

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		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	06-2024	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years
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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