Product Environmental Profile

ISO 14025 COMPLIANT

ATyS p 4x250A

The commitments of Socomec to respect the environment

As part of its environmental policy, Socomec is committed to:

- Develop innovating solutions primarily focused on energy efficiency to help its customer in the design of less energy-consuming, better managed and ecofriendly installations.
- Diversify its product offer in the renewable energy and energy efficiency sectors,
- Minimize the environmental impact of its industrial activities through the progressive ISO 14001 certification of its production sites,
- Minimize at the preliminary design stage the environmental impacts of its products taking into account their whole life cycle,
- Provide his customers with reliable data on the environmental performance of the products.

Socomec is member of :

ecosystem
Membre de WEEE Europe

THE GLOBAL COMPACT

Gimélec
Environment and sustainable development commissions

PEP ecopassport®

PEP ecopassport® N° Enregistrement : SOCO-00041-V01.01-EN

S.A.S SOCOMEC au capital de 10 749 940 € - R.C.S. Strasbourg B 548 500 149
B.P.60010 – 1, rue de Westhouse – F – 67 235 Benfeld Cedex
Tél : 03 88 57 41 41 – Fax : 03 88 57 78 78 – www.socomec.com
Contact : http://www.socomec.com/contact-us_en.html

socomec
Innovative Power Solutions

Product information

Reference product
The representative product is the ATyS p 4x250A with sales reference 95734025

Functional unit
Ensure monitoring and on load changeover switching between two power supply sources during 20 years.

Material and substances

Declaration of the constitutive materials according to IEC 62474
Total mass of the reference product (including packaging):9,0 kg (including packaging)

Metals, % weight		Plastics, % weight		Others, % weight	
Other Ferrous alloys, non-stainless steels	11,3%	Other Thermoplastics	50,5%	Other Organic Materials	9,8%
Copper and its alloys	11,0%	Other Plastics and Rubber	1,7%	Ceramics / Glass	2,8%
Zinc and its alloys	6,0%			Other inorganic materials	0,3%
Aluminum and its alloys	4,6%				
Stainless steel	0,8%				
Other non-ferrous metals and alloys	0,8%				
Precious metals	0,1%				
Nickel and its alloys	0,1%				

The estimated content of recycled materials is 14,6%, based on a Life Cycle Analysis model with EIME software.

Substances management
Socomec is leading a program to limit the use of hazardous substances in the design of new products and to monitor the presence of substances of concern in its supplies to anticipate future use restrictions.

RoHS2 COMPLIANT

Directive 2011/65/EU : Product references covered by this PEP meet the requirements of the RoHS Directive on the restriction of substances such as lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl (PBB), polybrominated diphenyl ethers (PBDEs) and phthalates (DIBP, DEHP, BBP, DBP).

REACH COMPLIANT

To the best of our knowledge, based on the supplier declarations, at the publication date of this document, the product do not contain any other SVHC in a concentration above 0,1% per weight.

Manufacturing

The products covered by this PEP are manufactured on a site where impacts on the environment are reduced by optimizing its energy consumption and by practicing a rigorous waste management.

Moreover, Socomec is committed to the progressive ISO 14001 certification of its manufacturing sites.

Distribution

The sizing of the packaging has been optimized to ensure the best possible protection of the product at the lowest possible volume in order to reduce the impact of the transport stage on the environment. Packaging design solutions favors mono-material recyclable cardboard without coloring or bleaching. The wedging of the packaged product is made of recycled cardboard, no polystyrene is used.

Installation

The installation stage consists in connecting the product to the existing electrical installation. The installation does not generate any significant impacts on the environment, except impacts from packaging waste.

Use phase

Consumption scenario
Use phase scenario: European energy mix

Mode	Power consumption of the reference product (W)	Load rate (%)	Time distribution (%)
Switching	139,1	30 % of In	0.01
Active	24,1		99.99

Product power consumption during its total lifespan (20 years): 4220,4 kWh

Care and maintenance

It is recommended to carry out periodic specialized maintenance in order to keep the equipment at the maximum level of efficiency and to avoid the installation being out of service with possible damage/risks.

The product does not require any maintenance under normal conditions of use.

Consumables

The product does not require consumables.

End of life

End of life treatment
The Atys p contains components that need to be dismantled and oriented towards specific sectors according to the Waste Directive 2008/98/EC : electronic boards, lithium battery and LCD.

Recovery potential of the product according to IEC TR 62635

The total potential value of this product is 39,4%.
This potential value takes into account the material recycling and energy recovery.

Environmental impacts

Calculation methodology: life cycle assessment (LCA)

The calculation of the impacts on the environment was made using a life cycle assessment methodology in accordance with the ISO 14040 requirements and with PEP eco passport product category rules. For more details follow the link: www.pep-ecopassport.org
This study was carried out with the version 5.9.3 of the software EIME with version database CODDE-2020-12. The software is distributed by CODDE which is a subsidiary of Bureau Veritas.
This product follows the rules defined in the PSR-0005-ed2-FR-2016 03 29.

The whole life cycle has been taken into account:

Step	Geographical representativeness	Scenario
Manufacturing (M)	Production of electronic components : Asia Production of other components and packaging : Europe Assembly : France	From the raw material extraction to the last Socomec logistic platform, including packaging Waste generated during manufacturing phase are taken into account.
Distribution (D)	Distribution scenario : Europe	From the last Socomec logistic platform to the final customer. No product reconditioning.
Installation (I)	Transport and treatment of packaging wastes : Local	Local road transport of 1000 km of generated wastes to the treatment site, and landfilling
Use phase (U)	Energy mix : Europe	Power consumption required during 20 years and maintenance according to consumption scenario described on page 3.
End Of Life (EOL)	Transport and treatment : Local	Road transport of 1000 km from the final customer to the treatment sites. End of life treatment.

Environmental impacts
The following impacts have been calculated to best represent geographically and technologically each step of the life cycle.

Indicators	Unit	Total impact	M	D	I	U	EOL
Contribution to global warming	kg CO_2 eq.	2,48E+03	8,03E+01	4,76E+00	0*	2,39E+03	1,87E+00
Contribution to ozone layer depletion	kg CFC-11 eq.	1,54E-04	2,13E-05	0*	0*	1,33E-04	2,78E-08
Contribution to the soil and water acidification	kg SO_2 eq.	2,11E+00	2,30E-01	2,14E-02	5,42E-04	1,85E+00	7,69E-03
Contribution to water eutrophication	kg $(PO_4)^{3-}$ eq.	5,65E-01	6,14E-02	4,92E-03	3,74E-04	4,93E-01	5,30E-03
Contribution to photochemical ozone formation	kg C_2H_4 eq.	1,14E+00	1,77E-02	1,52E-03	0*	1,12E+00	5,74E-04
Contribution to the depletion of abiotic resources - elements	kg Sb eq.	2,33E-02	2,33E-02	0*	0*	6,22E-05	0*
Contribution to the depletion of abiotic resources - fossil fuels	MJ	3,62E+04	8,68E+02	6,69E+01	0*	3,52E+04	2,18E+01
Contribution to water pollution	m^3	8,48E+04	9,44E+03	7,83E+02	1,80E+01	7,43E+04	2,55E+02
Contribution to air pollution	m^3	4,24E+05	1,48E+04	1,95E+02	0*	4,09E+05	1,56E+02
Use of renewable primary energy (excl. raw materials)	MJ	1,06E+02	6,60E+01	8,97E-02	2,09E-02	3,92E+01	2,96E-01
Use of renewable primary energy used as raw materials	MJ	5,40E+00	5,40E+00	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,11E+02	7,14E+01	8,97E-02	2,09E-02	3,92E+01	2,96E-01
Use of non-renewable primary energy (excl. raw materials)	MJ	5,95E+04	1,62E+03	6,72E+01	0*	5,78E+04	2,28E+01
Use of non-renewable primary energy used as raw materials	MJ	1,44E+02	1,44E+02	0*	0*	0*	0*
Total use of non-renewable primary energy resources	MJ	5,97E+04	1,77E+03	6,72E+01	0*	5,78E+04	2,28E+01
Use of secondary materials	kg	1,50E+00	1,50E+00	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*
Use of non-renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*
Net use of fresh water	m^3	1,27E+01	5,67E+00	0*	0*	6,99E+00	0*
Hazardous waste disposed of	kg	7,39E+02	4,11E+02	0*	0*	3,29E+02	0*
Non-hazardous waste disposed of	kg	2,11E+02	3,66E+01	1,69E-01	6,73E-01	1,64E+02	9,54E+00
Radioactive waste disposed of	kg	3,70E-01	1,39E-01	1,20E-04	0*	2,31E-01	3,47E-04
Components for reuse	kg	0*	0*	0*	0*	0*	0*
Materials for recycling	kg	0*	0*	0*	0*	0*	0*
Materials for energy recovery	kg	0*	0*	0*	0*	0*	0*
Exported energy	MJ by energy vector	0*	0*	0*	0*	0*	0*
Total use of primary energy during the life cycle	MJ	5,98E+04	1,84E+03	6,73E+01	0*	5,78E+04	2,31E+01
NB : 0 means that this impact either represents less than 0.01% of the total life cycle of the reference flow, or has no impact (in the case where the total impact is zero).*							

PRODUCT ENVIRONMENTAL PROFILE

Registration number : ***SOCO-00041-V01.01-EN***	Drafting Rules : **PCR-ed3-FR-2015 04 02** Supplemented by « ***PSR-0005-ed2-FR-2016 03 29*** »
Verifier accreditation number : ***VH46***	Information and reference documents : **www.pep-ecopassport.org**
Date of issue : ***10-2021***	Validity period : **5 years**
Independant verification of the declaration and data, in compliance with ISO 14025 : 2010	
Internal : ☒	**External :** ☐
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared with elements from another program	
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »	

This document is intended to be only informative and non-contractual and does not create any right or obligation or commitment for Socomec towards its associates, customers or any other person or entity. All the values indicated in this document may change depending on many factors (use conditions, applications, installations, environment…). The life time mentioned in this document is only indicative and is not intended to be the minimal, maximal or average life time of the product.