



NH2 FUSE gG 315A 690V with striker



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 :



Environment and sustainable development commissions

■ Representative product

Reference product

The representative product is the NH2 FUSE gG 315A 690V with striker with sales reference 68720315.

Functional unit

Protecting electrical circuits from current surges and guaranteeing the electrical safety of the system for 20 years.

■ Material and substances

Declaration of the constitutive materials according to IEC 62474

Total mass of the reference product (including packaging): 0.66 kg (packaging: 0.0241 kg).

The packaging is composed of cardboard and a paper manual.

For the NH2 FUSE gG 315A 690V with striker

Metals, % weight		Plastics, % weight		Others, % weight	
Copper and its alloys	24,5%	Others thermoplastics	0,2%	Others Inorganics	64,3%
Aluminum and its alloys	6,2%			Others Organics	3,7%
Stainless steel	0,5%			Ceramics / Glass	<0,1%
Zinc and its alloys	0,3%				
Other non-ferrous metals and alloys	0,2%				

The estimated content of recycled materials is 7.1%, based on a Life Cycle Analysis model with EIME software which is a software distributed by CODDE, a subsidiary of Bureau Veritas.

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.



ROHS directive 2011/65/EC compliance: although the majority of Socomec products are outside the scope of the ROHS directives, a ROHS compliance process has been in progress on a voluntary basis since 2006. 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) and polybrominated diphenyl ethers (PBDEs).

REACH 1907/2006 regulation: to the best of our knowledge at the publication date of this document, none of the substance of the candidate list to authorization (SVHC) has been found in the references covered by this PEP.



■ 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

As part of its distribution policy aiming to respect the environment, Socomec is in favor of groupage transports and ISO14001 certified logistic partners.



The packaging complies with Directive 94/62/EC.
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 (%)
Active	26.7W	100%	100%

Product power consumption during its total lifespan (20 years): 4677,84 kWh

Care and maintenance

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

Consumables

The product does not require consumables.

■ End of life

Recovery potential of the product according to IEC TR 62635

The total potential value of this product is 31.0%.
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 5.3 of the software EIME with version database CODDE_2018_03. 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
Distribution (D)	Distribution scenario : Europe	From the last Socomec logistic platform to the final customer
Installation (I)	Transport and treatment of packaging wastes : Local	Local road transport 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 from the final customer to the treatment sites. End of life treatment.

Environmental impacts of the NH2 FUSE gG 315A 690V with striker

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.	5,36E+02	1,13E+00	3,45E-01	0*	5,35E+02	1,39E-01
Contribution to ozone layer depletion	kg CFC11 eq.	4,05E-05	1,98E-07	0*	0*	4,03E-05	0*
Contribution to the soil and water acidification	kg SO ₂ eq.	6,21E-01	5,39E-03	1,55E-03	0*	6,14E-01	5,74E-04
Contribution to water eutrophication	kg (PO ₄) ³⁻ eq.	1,72E-01	6,81E-04	3,56E-04	0*	1,70E-01	3,96E-04
Contribution to photochemical ozone formation	kg C ₂ H ₄ eq.	6,64E-02	3,12E-04	1,10E-04	0*	6,59E-02	4,28E-05
Contribution to the depletion of abiotic resources - elements	kg Sb eq.	3,73E-04	2,16E-04	0*	0*	1,57E-04	0*
Contribution to the depletion of abiotic resources - fossil fuels	MJ	7,39E+03	1,50E+01	4,85E+00	0*	7,37E+03	1,98E+00

Contribution to water pollution	m³	2,94E+04	7,21E+01	5,67E+01	0*	2,93E+04	1,90E+01
Contribution to air pollution	m³	4,07E+04	8,64E+02	1,41E+01	0*	3,98E+04	1,16E+01
Use of renewable primary energy (excl. raw materials)	MJ	1,23E+01	1,85E+00	6,50E-03	0*	1,04E+01	2,21E-02
Use of renewable primary energy used as raw materials	MJ	1,75E-03	1,75E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,23E+01	1,85E+00	6,50E-03	0*	1,04E+01	2,21E-02
Use of non-renewable primary energy (excl. raw materials)	MJ	6,55E+04	1,40E+01	0*	0*	6,55E+04	0*
Use of non-renewable primary energy used as raw materials	MJ	1,36E-01	1,36E-01	0*	0*	0*	0*
Total use of non-renewable primary energy resources	MJ	6,55E+04	1,42E+01	0*	0*	6,55E+04	0*
Use of secondary materials	kg	5,24E-02	5,24E-02	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of non-renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Net use of fresh water	m³	1,01E+01	3,30E-02	0*	0*	1,01E+01	0*
Hazardous waste disposed of	kg	8,01E+02	1,89E+01	0*	0*	7,82E+02	0*
Non-hazardous waste disposed of	kg	5,37E+01	1,45E+00	1,23E-02	2,70E-02	5,15E+01	7,12E-01
Radioactive waste disposed of	kg	5,35E-01	9,49E-04	0*	0*	5,34E-01	0*
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for recycling	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	0,00E+00	0*	0*	0*	0*	0*
Exported energy	MJ by energy vector	0,00E+00	0*	0*	0*	0*	0*
Total use of primary energy during the life cycle	MJ	6,56E+04	1,60E+01	0*	0*	6,55E+04	0*

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).

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