# **Product Environmental Profile**

#### 800-1200A General Duty & Heavy Duty E-series Safety Switches







#### General information

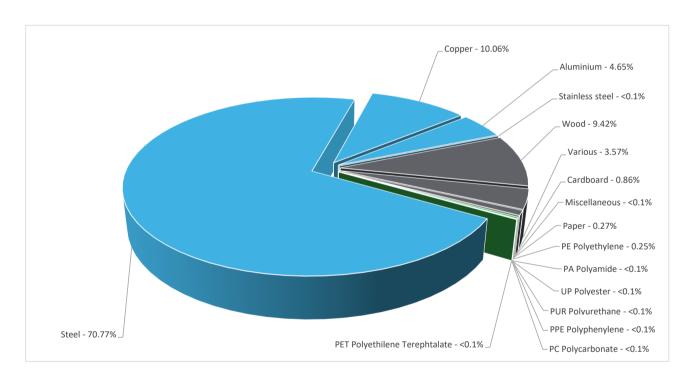
Reference product	800-1200A General Duty & Heavy Duty E-series Safety Switches - H367NR
Description of the product	The main purpose of the E-series safety switch is to isolate power and provide an effective way to interrupt power in an emergency. Two primary applications for safety switches are as a lockout on sight disconnect and as a circuit isolation device.
Description of the range	Single product
Functional unit	Turn off all or part of an installation by separating the installation or part of the installation of all electrical energy or earth, for safety reasons with a rated voltage U, and rated current In ensuring isolation characterised by a rated voltage Ui, and if applicable the specific specifications, according to the appropriate use scenario, and during the reference service life of the product of 20 years.
Specifications are:	U = 600 V In = 800 A Ui = 2200 V IP = NEMA TYPE 3 R

## <u>&</u>

#### **Constituent materials**

Reference product mass

174000 g including the product, its packaging and additional elements and accessories



 Plastics
 0.4%

 Metals
 85.5%

 Others
 14.1%

## Substance assessment

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

### Additional environmental information

End Of Life

Recyclability potential:

98%

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	Disconnectors - Low voltage										
Installation elements	No special components needed										
Use scenario	Load rate = 50 % In Use rate (closed device) = 30 % RLT	<del></del>									
Time representativeness	The collected data are representative of the year 2	024									
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	Rest of the World										
	[A1 - A3]	[A5]	[B6]	[C1 - C4]							
		Electricity Mix; Low voltage; 2018; United States, US	Electricity Mix; Low voltage; 2018; United States, US	Electricity Mix; Low voltage; 2018; United States, US							
Energy model used	Electricity Mix; Low voltage; 2018; Mexico, MX	Electricity Mix; Low voltage; 2018; Canada, CA	Electricity Mix; Low voltage; 2018; Canada, CA	Electricity Mix; Low voltage; 2018; Canada, CA							
		Electricity Mix; Low voltage; 2018; Mexico, MX	Electricity Mix; Low voltage; 2018; Mexico, MX	Electricity Mix; Low voltage; 2018; Mexico, MX							

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.schneiderelectric.com/contact

Mandatory Indicators	800-1200A General Duty & Heavy Duty E-series Safety Switches - H367NR								
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	3.71E+03	1.70E+03	3.35E+02	2.99E+01	1.25E+03	4.02E+02	-6.25E+02	
Contribution to climate change-fossil	kg CO2 eq	3.67E+03	1.69E+03	3.35E+02	2.67E+00	1.25E+03	3.99E+02	-6.17E+02	
Contribution to climate change-biogenic	kg CO2 eq	4.21E+01	9.86E+00	0*	2.72E+01	1.38E+00	3.64E+00	-7.71E+00	
Contribution to climate change-land use and land use change	kg CO2 eq	1.57E-04	6.31E-05	0*	0*	0*	9.44E-05	0.00E+00	
Contribution to ozone depletion	kg CFC-11 eq	5.25E-04	2.23E-04	2.94E-04	0*	5.12E-06	2.41E-06	-9.60E-05	
Contribution to acidification	mol H+ eq	2.03E+01	1.07E+01	1.38E+00	8.80E-03	6.47E+00	1.74E+00	-6.41E+00	
Contribution to eutrophication, freshwater	kg (PO4)³¯ eq	1.35E-01	1.96E-02	3.91E-05	3.65E-05	1.95E-03	1.13E-01	-1.19E-03	
Contribution to eutrophication marine	kg N eq	2.94E+00	1.21E+00	6.26E-01	2.97E-03	7.73E-01	3.28E-01	-3.75E-01	
Contribution to eutrophication, terrestrial	mol N eq	3.44E+01	1.47E+01	6.80E+00	3.79E-02	9.13E+00	3.71E+00	-4.34E+00	
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.11E+01	5.05E+00	2.27E+00	7.92E-03	2.56E+00	1.18E+00	-1.65E+00	
Contribution to resource use, minerals and metals	kg Sb eq	9.17E-02	8.80E-02	0*	0*	5.42E-05	3.60E-03	-1.71E-01	
Contribution to resource use, fossils	MJ	8.15E+04	2.48E+04	4.15E+03	1.41E+01	2.65E+04	2.61E+04	-1.29E+04	
Contribution to water use	m3 eq	1.93E+03	1.63E+03	1.69E+01	3.31E+00	4.38E+01	2.34E+02	-3.53E+02	

Inventory flows Indicators		800-1200A Ge	eneral Duty & He	avy Duty E-serie	es Safety Switche	s - H367NR		
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	5.57E+03	1.50E+03	0*	0*	3.99E+03	8.84E+01	-2.29E+02
Contribution to use of renewable primary energy resources used as raw material	MJ	4.00E+02	4.00E+02	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	5.97E+03	1.90E+03	0*	0*	3.99E+03	8.84E+01	-2.29E+02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	8.14E+04	2.46E+04	4.15E+03	1.41E+01	2.65E+04	2.61E+04	-1.29E+04
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.39E+02	1.39E+02	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	8.15E+04	2.48E+04	4.15E+03	1.41E+01	2.65E+04	2.61E+04	-1.29E+04
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 freshwater	m³	4.49E+01	3.80E+01	3.94E-01	7.71E-02	1.02E+00	5.44E+00	-8.21E+00
Contribution to hazardous waste disposed	kg	3.92E+03	3.90E+03	0*	0*	2.33E+01	0*	-1.38E+04
Contribution to non hazardous waste disposed	kg	1.86E+03	1.64E+03	3.40E-01	2.09E+01	1.82E+02	7.14E+00	-5.72E+02
Contribution to radioactive waste disposed	kg	1.03E+00	9.23E-01	6.63E-02	5.90E-04	3.61E-02	1.58E-03	-3.24E-01
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.75E+02	2.26E+01	0*	0*	0*	1.52E+02	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	3.18E+00	1.73E+00	0*	0*	0*	1.44E+00	0.00E+00

<sup>\*</sup> 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 7.12E+00

Mandatory Indicators	800-1	200A General	Duty & He	avy Duty	/ E-series	Safety Switch	es - H367NF		
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.25E+03	0*	0*	0*	0*	0*	1.25E+03	0*
Contribution to climate change-fossil	kg CO2 eq	1.25E+03	0*	0*	0*	0*	0*	1.25E+03	0*
Contribution to climate change-biogenic	kg CO2 eq	1.38E+00	0*	0*	0*	0*	0*	1.38E+00	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	5.12E-06	0*	0*	0*	0*	0*	5.12E-06	0*
Contribution to acidification	mol H+ eq	6.47E+00	0*	0*	0*	0*	0*	6.47E+00	0*
Contribution to eutrophication, freshwater	kg (PO4)³⁻ eq	1.95E-03	0*	0*	0*	0*	0*	1.95E-03	0*
Contribution to eutrophication marine	kg N eq	7.73E-01	0*	0*	0*	0*	0*	7.73E-01	0*
Contribution to eutrophication, terrestrial	mol N eq	9.13E+00	0*	0*	0*	0*	0*	9.13E+00	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.56E+00	0*	0*	0*	0*	0*	2.56E+00	0*
Contribution to resource use, minerals and metals	kg Sb eq	5.42E-05	0*	0*	0*	0*	0*	5.42E-05	0*
Contribution to resource use, fossils	MJ	2.65E+04	0*	0*	0*	0*	0*	2.65E+04	0*
Contribution to water use	m3 eq	4.38E+01	0*	0*	0*	0*	0*	4.38E+01	0*

Inventory flows Indicators				200A General I	Duty & He	avy Duty	E-series	Safety Switche	es - H367N
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
contribution to use of renewable primary energy excluding enewable primary energy used as raw material	MJ	3.99E+03	0*	0*	0*	0*	0*	3.99E+03	0*
contribution to use of renewable primary energy resources used s raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
ntribution to total use of renewable primary energy resources	MJ	3.99E+03	0*	0*	0*	0*	0*	3.99E+03	0*
tribution to use of non renewable primary energy excluding renewable primary energy used as raw material	MJ	2.65E+04	0*	0*	0*	0*	0*	2.65E+04	0*
ntribution to use of non renewable primary energy resources ed as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
ntribution to total use of non-renewable primary energy ources	MJ	2.65E+04	0*	0*	0*	0*	0*	2.65E+04	0*
ntribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
tribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
tribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
tribution to net use of freshwater	m³	1.02E+00	0*	0*	0*	0*	0*	1.02E+00	0*
ribution to hazardous waste disposed	kg	2.33E+01	0*	0*	0*	0*	0*	2.33E+01	0*
tribution to non hazardous waste disposed	kg	1.82E+02	0*	0*	0*	0*	0*	1.82E+02	0*
tribution to radioactive waste disposed	kg	3.61E-02	0*	0*	0*	0*	0*	3.61E-02	0*
tribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
ribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
ribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
ntribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

<sup>\*</sup> represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version v6.2, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 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 :	ENVPEP1405016_V3	Drafting rules	PCR-4-ed4-EN-2021 09 06					
		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								
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Internal 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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