Product Environmental Profile

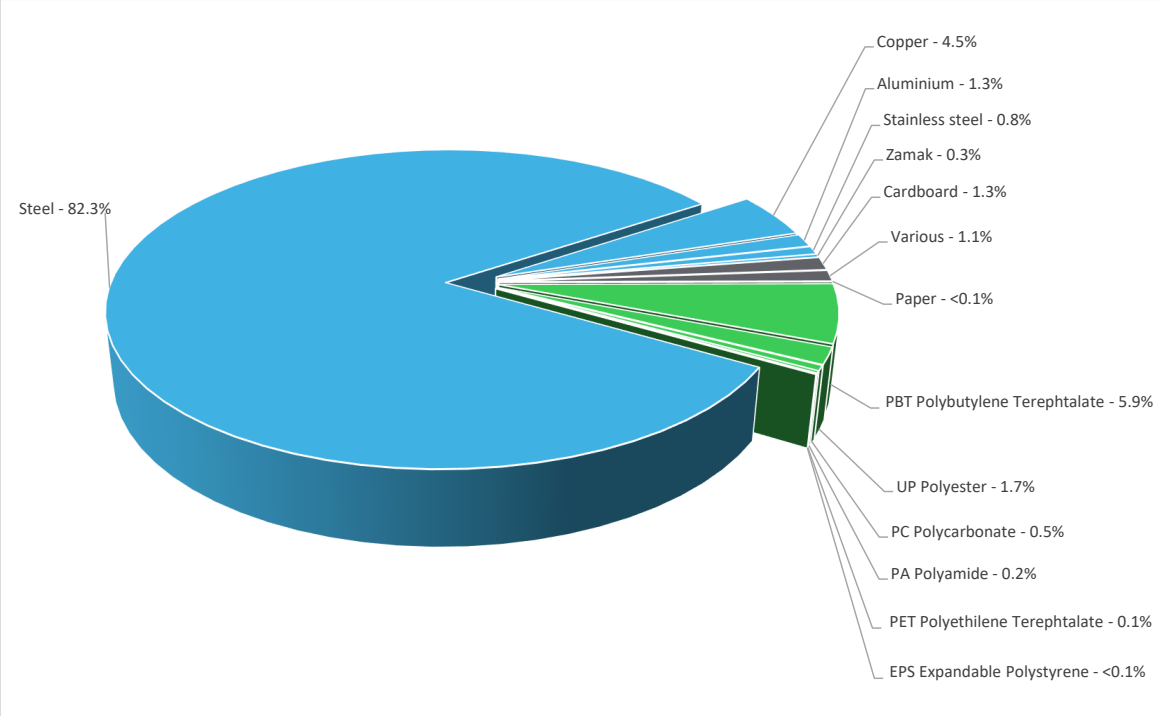
200A VisiPacT™ F-Series Heavy Duty Safety Switch

General information

Reference product	200A VisiPacT™ F-Series Heavy Duty Safety Switch - VHU364AWKGL
Description of the product	The main purpose of the F-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.
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 600 V and rated current 200 A. This function is provided for 20 years. The product qualifies for the standards UL50E Type 12, UL98 & NEMA KS1.

Constituent materials

Reference product mass	24327 g	including the product, its packaging and additional elements and accessories



	Metals	89.2%
	Plastics	8.4%
	Others	2.4%

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:	**88%**	Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).

Environmental impacts

Reference service life time	20 years			
Product category	Disconnectors - Low voltage			
Installation elements	No special installation components need during installation phase			
Use scenario	Load rate: 50% Use time rate (closed unit): 30% of RLT			
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.			
Geographical representativeness	United States, Canada, Mexico.			
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US
		Electricity Mix; Production mix; Low voltage; CA	Electricity Mix; Production mix; Low voltage; CA	Electricity Mix; Production mix; Low voltage; CA
		Electricity Mix; Production mix; Low voltage; MX	Electricity Mix; Production mix; Low voltage; MX	Electricity Mix; Production mix; Low voltage; MX

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), 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		200A VisiPacT™ F-Series Heavy Duty Safety Switch - VHU364AWKGL						
Impact indicators	Unit	Total	Manufacturing [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to climate change	kg CO2 eq	2.59E+02	1.36E+02	7.01E+00	3.62E-01	5.95E+01	5.59E+01	-1.45E+02
Contribution to climate change-fossil	kg CO2 eq	2.58E+02	1.36E+02	7.01E+00	3.62E-01	5.95E+01	5.57E+01	-1.43E+02
Contribution to climate change-biogenic	kg CO2 eq	1.05E+00	7.64E-01	0*	1.62E-04	6.48E-02	2.23E-01	-1.50E+00
Contribution to climate change-land use and land use change	kg CO2 eq	3.71E-06	0*	0*	0*	0*	3.71E-06	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.89E-05	2.22E-05	6.19E-06	0*	2.48E-07	2.94E-07	-2.20E-05
Contribution to acidification	mol H+ eq	1.30E+00	7.43E-01	3.05E-02	2.61E-04	3.11E-01	2.13E-01	-1.35E+00
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	8.23E-03	2.16E-04	0*	6.21E-06	9.46E-05	7.92E-03	-2.67E-04
Contribution to eutrophication marine	kg N eq	1.89E-01	1.00E-01	1.40E-02	1.40E-04	3.71E-02	3.76E-02	-8.61E-02
Contribution to eutrophication, terrestrial	mol N eq	2.10E+00	1.10E+00	1.52E-01	1.05E-03	4.38E-01	4.18E-01	-9.97E-01
Contribution to photochemical ozone formation - human health	kg COVNM eq	7.28E-01	4.10E-01	4.98E-02	3.56E-04	1.23E-01	1.45E-01	-3.73E-01
Contribution to resource use, minerals and metals	kg Sb eq	1.14E-02	1.12E-02	0*	0*	2.59E-06	2.25E-04	-4.04E-02
Contribution to resource use, fossils	MJ	1.05E+04	5.21E+03	8.52E+01	0*	1.27E+03	3.97E+03	-3.05E+03
Contribution to water use	m3 eq	7.52E+01	4.65E+01	3.56E-01	0*	2.11E+00	2.62E+01	-7.66E+01

Additional indicators for the French regulation are available as well

Inventory flows Indicators		200A VisiPacT™ F-Series Heavy Duty Safety Switch - VHU364AWKGL						
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.16E+02	1.86E+01	0*	0*	1.92E+02	5.37E+00	-4.77E+01
Contribution to use of renewable primary energy resources used as raw material	MJ	6.15E+00	6.15E+00	0*	0*	0*	0*	-3.60E-02
Contribution to total use of renewable primary energy resources	MJ	2.22E+02	2.47E+01	0*	0*	1.92E+02	5.37E+00	-4.77E+01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.05E+04	5.15E+03	8.52E+01	0*	1.27E+03	3.97E+03	-3.05E+03
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.81E+01	5.81E+01	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.05E+04	5.21E+03	8.52E+01	0*	1.27E+03	3.97E+03	-3.05E+03
Contribution to use of secondary material	kg	4.99E-02	4.99E-02	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	1.75E+00	1.08E+00	8.28E-03	0*	4.91E-02	6.11E-01	-1.78E+00
Contribution to hazardous waste disposed	kg	7.46E+02	7.21E+02	0*	0*	1.13E+00	2.38E+01	-3.25E+03
Contribution to non hazardous waste disposed	kg	4.85E+01	3.91E+01	7.14E-03	3.52E-01	8.73E+00	3.26E-01	-1.30E+02
Contribution to radioactive waste disposed	kg	2.21E-02	1.89E-02	1.39E-03	1.32E-05	1.70E-03	1.67E-04	-7.15E-02
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.09E+01	8.00E-01	0*	0*	0*	2.01E+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	1.74E-01	0*	0*	1.74E-01	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

** represents less than 0.01% of the total life cycle of the reference flow*

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

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-00958-V01.01-EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
Verifier accreditation N°	VH18	*Supplemented by*	PSR-0005-ed2-2016 03 29
Date of issue	11/2023	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal External X

The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)

PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019

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 »

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