Product Environmental Profile

PowerTag Rope 2000A 3P/3P+N

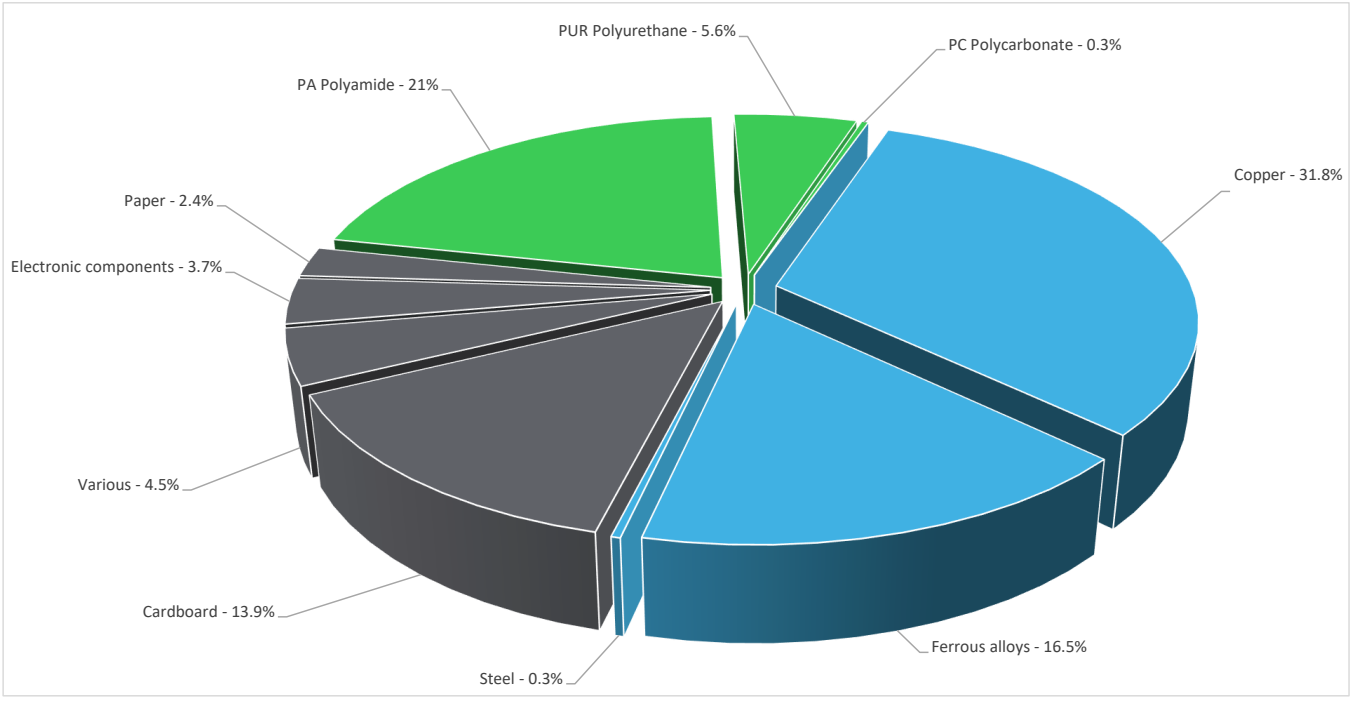


General information

Reference product	PowerTag Rope 2000A 3P/3P+N - A9MEM1593
Description of the product	PowerTag Energy R2000 is a wireless energy sensor, used to measure and manage energy consumption.
Description of the range	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."The Reference product is A9MEM1593 (PowerTag Energy R2000 - Rope Sensor). The range includes PowerTag Energy Rope sensor products having different applications (Wireless Circuit-Level Energy Monitoring in Small/Medium Loads, Mid-Range Feeders, Large Feeders and Critical Industrial Feeders)" The products of the range are: PowerTag Energy: A9MEM1590, A9MEM1591, A9MEM1592, A9MEM1593 & PowerLogic Tag: PLTR1203P, PLTR6003P, PLTR10003P, PLTR20003P.
Functional unit	The PowerTag Energy R2000 incorporates accurate real-time measurements of active, reactive and apparent energy, active, reactive and apparent power, current, voltage and power factor according to the reference usage scenario and during a reference service life of 10 years. It complies with energy measurement standard IEC 61557-12. It is a PMD-II/DD/K70/1.
Specifications are:	Rated voltage: 100/173 … 277/480 VAC ± 20 % Total active power (Device measuring Range): 288 W (96 W) to 2400 kW Maximum current [Imax]: 2000 A Maximum consumption: 3VA IP20 (IP40 front face),IK05 degree of protection in accordance with the standard IEC 60529.

Constituent materials

Reference product mass	552 g	including the product and its packaging



Plastics	26.9%
Metals	48.6%
Others	24.5%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
https://www.se.com

Additional environmental information

End Of Life	Recyclability potential:	57%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).

Environmental impacts

Reference service life time	10 years			
Product category	Other equipments - Active product			
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study			
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption			
Installation elements	The product does not require any installation operations and only packaging disposal was considered			
Use scenario	The product is in active mode 100% of the time with a power use of 0.45W for 10 years.			
Time representativeness	The collected data are representative of the year 2025			
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	Final assembly site	Use phase		End-of-life
	Lexel, Riga, Latvia	Global		Global
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Low voltage; 2020; China, CN Electricity Mix; Low voltage; 2020; Europe, EU-27	No energy used	Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; United States, US Electricity Mix; Low voltage; 2020; Asia Pacific, APAC Electricity Mix; Low voltage; 2020; Australia, AU Electricity Mix; Low voltage; 2020; Algeria, DZ	Global, European and French datasets are used.

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.se.com/contact

Mandatory Indicators		PowerTag Rope 2000A 3P/3P+N - A9MEM1593						
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	2.67E+01	7.01E+00	3.17E-01	5.41E-02	1.82E+01	1.09E+00	-2.82E-01
Contribution to climate change-fossil	kg CO2 eq	2.64E+01	7.04E+00	3.17E-01	2.95E-02	1.79E+01	1.09E+00	-2.58E-01
Contribution to climate change-biogenic	kg CO2 eq	2.97E-01	-2.46E-02	0*	2.46E-02	2.96E-01	8.03E-04	-2.39E-02
Contribution to climate change-land use and land use change	kg CO2 eq	2.33E-06	2.27E-06	0*	2.94E-10	0*	6.22E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.00E-06	2.63E-06	2.80E-07	1.06E-09	7.73E-08	1.37E-08	-8.00E-08
Contribution to acidification	mol H+ eq	1.62E-01	6.24E-02	1.38E-03	1.78E-04	9.57E-02	2.02E-03	-1.99E-02
Contribution to eutrophication, freshwater	kg P eq	5.81E-05	2.40E-05	3.72E-08	3.49E-08	3.30E-05	1.06E-06	-3.67E-07
Contribution to eutrophication marine	kg N eq	2.11E-02	8.66E-03	6.35E-04	4.49E-05	1.12E-02	5.57E-04	-2.99E-04
Contribution to eutrophication, terrestrial	mol N eq	2.72E-01	9.34E-02	6.88E-03	5.91E-04	1.65E-01	6.23E-03	-3.52E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	7.20E-02	3.18E-02	2.26E-03	1.26E-04	3.62E-02	1.61E-03	-2.25E-03
Contribution to resource use, minerals and metals	kg Sb eq	4.91E-04	4.86E-04	0*	0*	4.77E-06	0*	-1.96E-04
Contribution to resource use, fossils	MJ	5.22E+02	1.12E+02	3.95E+00	5.47E-01	4.00E+02	5.60E+00	-4.65E+00
Contribution to water use	m3 eq	3.50E+00	2.17E+00	1.61E-02	1.70E-03	1.24E+00	7.31E-02	-9.75E-01

Inventory flows Indicators		PowerTag Rope 2000A 3P/3P+N - A9MEM1593						
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	8.27E+01	2.26E+00	0*	4.71E-02	8.02E+01	2.43E-01	-5.14E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.74E+00	1.74E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	8.45E+01	4.00E+00	0*	4.71E-02	8.02E+01	2.43E-01	-5.14E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.13E+02	1.03E+02	3.95E+00	5.47E-01	4.00E+02	5.60E+00	-4.65E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	9.33E+00	9.33E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	5.22E+02	1.12E+02	3.95E+00	5.47E-01	4.00E+02	5.60E+00	-4.65E+00
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	8.16E-02	5.03E-02	3.75E-04	3.89E-05	2.90E-02	1.90E-03	-2.27E-02
Contribution to hazardous waste disposed	kg	5.77E+00	4.96E+00	0*	3.21E-02	4.66E-01	3.08E-01	-1.52E+01
Contribution to non hazardous waste disposed	kg	5.89E+00	2.97E+00	0*	3.90E-03	2.77E+00	1.48E-01	-2.55E-02
Contribution to radioactive waste disposed	kg	1.57E-03	8.93E-04	6.32E-05	1.63E-06	6.04E-04	1.23E-05	-2.40E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.34E-01	9.84E-03	0*	0*	0*	1.24E-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	2.64E-05	1.10E-05	0*	0*	0*	1.54E-05	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 of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	2.55E-02

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		PowerTag Rope 2000A 3P/3P+N - A9MEM1593							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.82E+01	0*	0*	0*	0*	0*	1.82E+01	0*
Contribution to climate change-fossil	kg CO2 eq	1.79E+01	0*	0*	0*	0*	0*	1.79E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	2.96E-01	0*	0*	0*	0*	0*	2.96E-01	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	7.73E-08	0*	0*	0*	0*	0*	7.73E-08	0*
Contribution to acidification	mol H+ eq	9.57E-02	0*	0*	0*	0*	0*	9.57E-02	0*
Contribution to eutrophication, freshwater	kg P eq	3.30E-05	0*	0*	0*	0*	0*	3.30E-05	0*
Contribution to eutrophication marine	kg N eq	1.12E-02	0*	0*	0*	0*	0*	1.12E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	1.65E-01	0*	0*	0*	0*	0*	1.65E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.62E-02	0*	0*	0*	0*	0*	3.62E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	4.77E-06	0*	0*	0*	0*	0*	4.77E-06	0*
Contribution to resource use, fossils	MJ	4.00E+02	0*	0*	0*	0*	0*	4.00E+02	0*
Contribution to water use	m3 eq	1.24E+00	0*	0*	0*	0*	0*	1.24E+00	0*

Inventory flows Indicators		PowerTag Rope 2000A 3P/3P+N - A9MEM1593							
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	8.02E+01	0*	0*	0*	0*	0*	8.02E+01	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	8.02E+01	0*	0*	0*	0*	0*	8.02E+01	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.00E+02	0*	0*	0*	0*	0*	4.00E+02	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	4.00E+02	0*	0*	0*	0*	0*	4.00E+02	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	2.90E-02	0*	0*	0*	0*	0*	2.90E-02	0*
Contribution to hazardous waste disposed	kg	4.66E-01	0*	0*	0*	0*	0*	4.66E-01	0*
Contribution to non hazardous waste disposed	kg	2.77E+00	0*	0*	0*	0*	0*	2.77E+00	0*
Contribution to radioactive waste disposed	kg	6.04E-04	0*	0*	0*	0*	0*	6.04E-04	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 v6.3.4, database version 2025-04 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

Extrapolation rules are based on mass proportionality for the manufacturing, distribution, installation, and end-of-life stages, while energy consumption is used as the scaling parameter for the use phase. Results for the other products of the range are available 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.

Registration number :	SCHN-00577-V02.01-EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH42	*Information and reference documents*	www.pep-ecopassport.org
Date of issue	06-2026	*Validity period*	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal	External X		
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with NF C08-100-1:2022 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 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			

Schneider Electric Industries SAS
Country Customer Care Center
http://www.se.com/contact
Head Office
35, rue Joseph Monier
CS 30323
F- 92500 Rueil Malmaison Cedex
RCS Nanterre 954 503 439
Capital social 928 298 512 €

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