

Product Environmental Profile

Acti 9 iEM33xx Series Energy meter

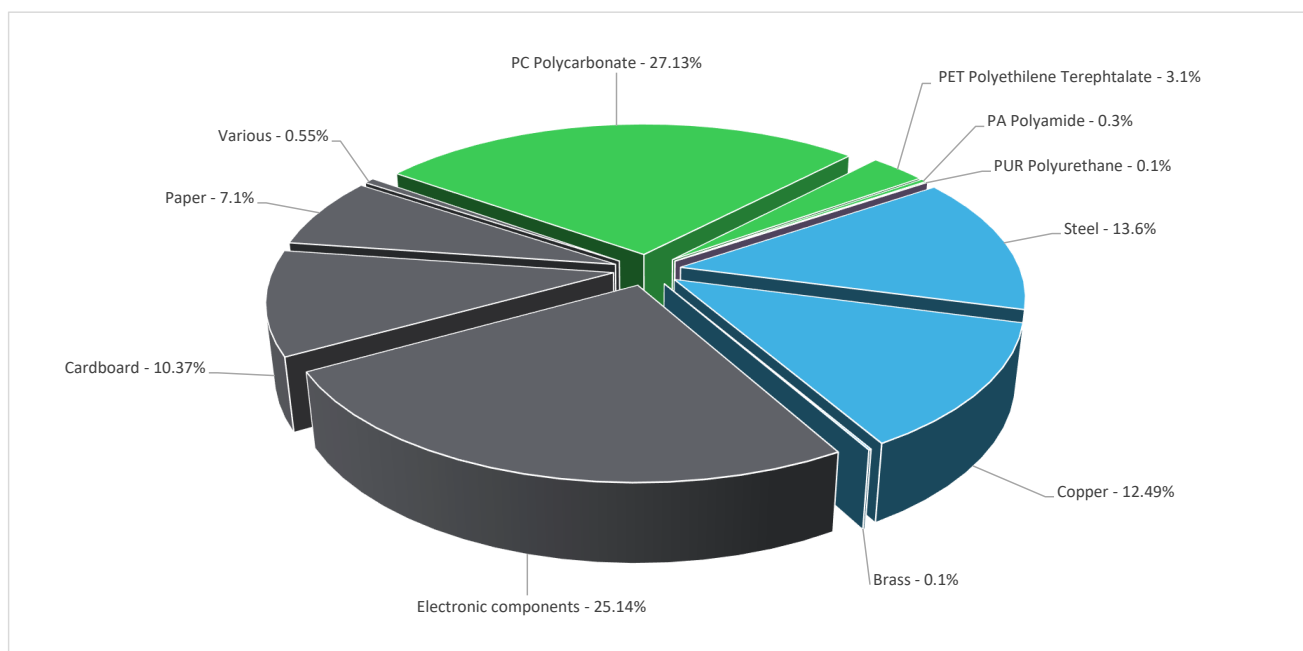


General information

Reference product	Acti 9 iEM33xx Series Energy meter - A9MEM3355
Description of the product	The Acti9 iEM3000 series energy meters offer an attractive range of three-phase DIN rail-mounted energy meters with an LCD display. Additional local signaling includes green LED power-on indicator, flashing yellow LED for accuracy checking, an overload alarm and communication indicators. This meter can be used in sub-billing applications and supports 4 tariff schedules. The meter will measure Active and Reactive Power, Active and Reactive Energy, Voltage and Current. With four quadrant Energy measurement. Designed for 50Hz or 60Hz networks, supply voltage can range from 100 to 277VAC or 173 to 480VAC. Line rated current for this meter is up to 125A via direct connect and will support Single Phase and Neutral, Three Phase and Three Phase and Neutral configurations. Communication protocol is Modbus with screw terminal support. There is one programmable digital input and one programmable digital output that can be used as a pulsed output.
Functional unit	This is a energy measuring meter which can measure 125 A current with Modbus protocol, 1 digital input and 1 digital Output feature for service life of 10 years Dimensions: H103.2mm x L126mm x D69.3mm IP40 front panel: conforming to IEC 60529 IP20 body: conforming to IEC 60529

Constituent materials

Reference product mass	693 g including the product, its packaging and additional elements and accessories
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Plastics	30.6%
Metals	26.2%
Others	43.2%

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:	32%	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).
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**Environmental impacts**

Reference service life time	10 years			
Product category	Other equipments - Active product			
Installation elements	This product does not require any special components during installation. Disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).			
Use scenario	The product is in active mode 5% of the time with a power use of 1.9W and in stand-by mode 95% of the time with a power use of 1.4W for 10 years			
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	Global			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; CN	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27
		Electricity Mix; Production mix; Low voltage; APAC	Electricity Mix; Production mix; Low voltage; APAC	Electricity Mix; Production mix; Low voltage; APAC
		Electricity Mix; Production mix; Low voltage; CA	Electricity Mix; Production mix; Low voltage; CA	Electricity Mix; Production mix; Low voltage; CA

Detailed results, including all the optional indicators mentioned in PCRred4, 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			Acti 9 iEM33xx Series Energy meter - A9MEM3355					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	6.60E+01	1.25E+01	1.33E-01	1.33E-01	5.25E+01	8.34E-01	-2.41E+00
Contribution to climate change-fossil	kg CO2 eq	6.58E+01	1.23E+01	1.33E-01	1.27E-01	5.24E+01	8.11E-01	-2.37E+00
Contribution to climate change-biogenic	kg CO2 eq	2.26E-01	1.36E-01	0*	5.93E-03	6.07E-02	2.26E-02	-3.90E-02
Contribution to climate change-land use and land use change	kg CO2 eq	2.07E-07	1.61E-08	0*	0*	0*	1.91E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.29E-06	1.91E-06	1.18E-07	8.83E-09	2.33E-07	2.22E-08	-3.85E-07
Contribution to acidification	mol H+ eq	4.19E-01	1.00E-01	5.79E-04	5.30E-04	3.10E-01	7.62E-03	-3.69E-02
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	5.69E-04	3.45E-05	0*	9.63E-07	1.23E-04	4.10E-04	-5.06E-06
Contribution to eutrophication marine	kg N eq	5.17E-02	1.20E-02	2.66E-04	1.40E-04	3.49E-02	4.27E-03	-1.67E-03
Contribution to eutrophication, terrestrial	mol N eq	6.38E-01	1.29E-01	2.88E-03	1.06E-03	4.99E-01	6.09E-03	-1.88E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.59E-01	4.25E-02	9.45E-04	2.83E-04	1.13E-01	1.89E-03	-7.68E-03
Contribution to resource use, minerals and metals	kg Sb eq	1.73E-03	1.72E-03	0*	0*	3.39E-06	1.14E-05	-7.84E-04
Contribution to resource use, fossils	MJ	1.44E+03	1.62E+02	1.62E+00	1.39E+00	1.26E+03	1.63E+01	-5.00E+01
Contribution to water use	m3 eq	7.59E+01	3.44E+00	0*	5.69E-02	1.92E+00	7.04E+01	-2.06E+00

Additional indicators for the French regulation are available as well


Inventory flows Indicators			Acti 9 iEM33xx Series Energy meter - A9MEM3355					
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	2.64E+02	3.65E+00	0*	9.96E-02	2.59E+02	5.88E-01	-1.15E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.49E+00	1.49E+00	0*	0*	0*	0*	-1.42E+00
Contribution to total use of renewable primary energy resources	MJ	2.65E+02	5.14E+00	0*	9.96E-02	2.59E+02	5.88E-01	-1.53E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.43E+03	1.56E+02	1.62E+00	1.39E+00	1.26E+03	1.63E+01	-5.00E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.57E+00	5.57E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.44E+03	1.62E+02	1.62E+00	1.39E+00	1.26E+03	1.63E+01	-5.00E+01
Contribution to use of secondary material	kg	1.62E-05	1.62E-05	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	1.97E+00	8.01E-02	0*	1.33E-03	4.46E-02	1.84E+00	-4.81E-02
Contribution to hazardous waste disposed	kg	4.38E+01	4.24E+01	0*	0*	1.06E+00	3.83E-01	-6.45E+01
Contribution to non hazardous waste disposed	kg	1.29E+01	4.52E+00	0*	4.34E-01	7.79E+00	1.67E-01	-3.59E+00
Contribution to radioactive waste disposed	kg	3.36E-03	1.86E-03	2.65E-05	5.82E-05	1.41E-03	1.11E-05	-8.11E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.90E-01	9.59E-02	0*	7.33E-02	0*	1.21E-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	0.00E+00	0*	0*	0*	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 and the EF 3.0 method of calculation

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-00820-V01.01-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
Verifier accreditation N°	VH48	Supplemented by	PSR-0005-ed2-2016 03 29
Date of issue	2024/02	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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SCHN-00820-V01.01-EN

Published by Schneider Electric

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2024/02