Product Environmental Profile

MUREVA Socket outlet-Pin earth-16A-Screwless-Surface mounted

as referent product for : all socket outlet in Mureva range







General information								
Reference product	MUREVA Socket outlet-Pin earth-16A-Screwless-Surface mounted - MUR35031							
Description of the product	The main purpose of the Mureva socket outlet product is to give a solution for the infrastructures that give access to Electricity till the plug.							
Description of the range	The indicators values of this Mureva Socket Outlet can be extrapolated, based on the Mass and Energy values of the products, for other Mureva Socket Outlet range of products with or without linked accesories, for surface or flush-mounted variants, for all earth types(side or pin earth) and for all finishing types and colors.							
	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.							
Functional unit	Connect/Disconnect during 20 years the plug of a load consuming 16A under a voltage of 250V while protecting the user from direct contact with live parts and with a protection class IP55 in accordance with the standard IEC 60529 and IK08 in accordance with the standard IEC 62262.							





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/



\mathcal{Q} Environmental impacts

Reference service life time	20 years						
Product category	Power socket						
Installation elements	The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).						
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.						
Use scenario	Full load is 1,2288 W power loses. For 20 years, the product is used 50% of the time with a power losses of 0.3072 W (with 50% load rate = 8A) and 0W for other part of the time (50%).						
Geographical representativeness	France						
	[A1 - A3]	[A5]	[B6]	[C1 - C4]			
Energy model used	Electricity Mix; Production mix; Low voltage; PL	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; FR			

Mandatory Indicators			MUREVA Socket outlet-Pin earth-16A-Screwless-Surface mounted - MUR35031					
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	2.81E+00	5.68E-01	4.01E-02	1.74E-02	1.80E+00	3.87E-01	-6.83E-02
Contribution to climate change-fossil	kg CO2 eq	2.79E+00	5.52E-01	4.01E-02	1.67E-02	1.79E+00	3.87E-01	-6.85E-02
Contribution to climate change-biogenic	kg CO2 eq	2.13E-02	1.59E-02	0*	7.75E-04	4.63E-03	0*	1.92E-04
Contribution to climate change-land use and land use change	kg CO2 eq	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.62E-07	9.77E-08	3.54E-08	1.15E-09	2.65E-08	1.19E-09	-2.92E-08
Contribution to acidification	mol H+ eq	1.46E-02	3.70E-03	1.74E-04	6.92E-05	1.04E-02	2.62E-04	-4.92E-04
Contribution to eutrophication, freshwater	kg (PO4)³⁻ eq	9.11E-05	5.46E-06	0*	1.26E-07	8.55E-05	1.14E-08	-1.59E-07
Contribution to eutrophication marine	kg N eq	2.13E-03	5.42E-04	8.00E-05	1.83E-05	1.43E-03	5.71E-05	-3.21E-05
Contribution to eutrophication, terrestrial	mol N eq	2.82E-02	5.90E-03	8.67E-04	1.38E-04	2.06E-02	7.17E-04	-4.18E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	6.91E-03	2.15E-03	2.84E-04	3.69E-05	4.24E-03	1.98E-04	-1.69E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.80E-05	1.71E-05	0*	0*	8.51E-07	2.18E-09	-2.00E-05
Contribution to resource use, fossils	MJ	3.63E+02	1.31E+01	4.87E-01	1.81E-01	3.45E+02	3.51E+00	-9.47E-01
Contribution to water use	m3 eq	3.86E-01	1.99E-01	2.03E-03	7.44E-03	1.30E-01	4.68E-02	-4.13E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators			MUREVA Socket outlet-Pin earth-16A-Screwless-Surface mounted - MUR35031					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
inventory nows			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.22E+01	3.01E-01	0*	1.30E-02	3.19E+01	0*	-6.89E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	5.80E-02	5.80E-02	0*	0*	0*	0*	1.02E-01
Contribution to total use of renewable primary energy resources	MJ	3.23E+01	3.59E-01	0*	1.30E-02	3.19E+01	0*	3.36E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw materia	I MJ	3.58E+02	8.32E+00	4.87E-01	1.81E-01	3.45E+02	3.51E+00	-1.16E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	4.80E+00	4.80E+00	0*	0*	0*	0*	2.18E-01

Contribution to total use of non-renewable primary energy resources	MJ	3.63E+02	1.31E+01	4.87E-01	1.81E-01	3.45E+02	3.51E+00	-9.47E-01
Contribution to use of secondary material	kg	1.51E-02	1.51E-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	8.98E-03	4.64E-03	4.73E-05	1.73E-04	3.03E-03	1.09E-03	-9.63E-04
Contribution to hazardous waste disposed	kg	1.46E+00	1.29E+00	0*	2.06E-04	2.68E-02	1.40E-01	-1.49E+00
Contribution to non hazardous waste disposed	kg	8.86E-01	5.45E-01	0*	5.67E-02	1.73E-01	1.12E-01	1.29E-01
Contribution to radioactive waste disposed	kg	4.01E-04	3.08E-04	7.97E-06	7.61E-06	7.26E-05	4.46E-06	1.55E-06
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.53E-02	0*	0*	9.58E-03	0*	1.57E-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	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 5.9.4, database version 2022-01 in compliance with ISO14044.

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided 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.

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		Validity period	5 years				
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010							
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The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDEMAIN)							
PEP are compliant with XP C08-							
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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