

Product Environmental Profile

Mureva PK - Industrial Plug & Socket - 32A - 3P+N+E - screw

Representative of all Mureva PK - Industrial Plugs & Sockets from 16 to 125A

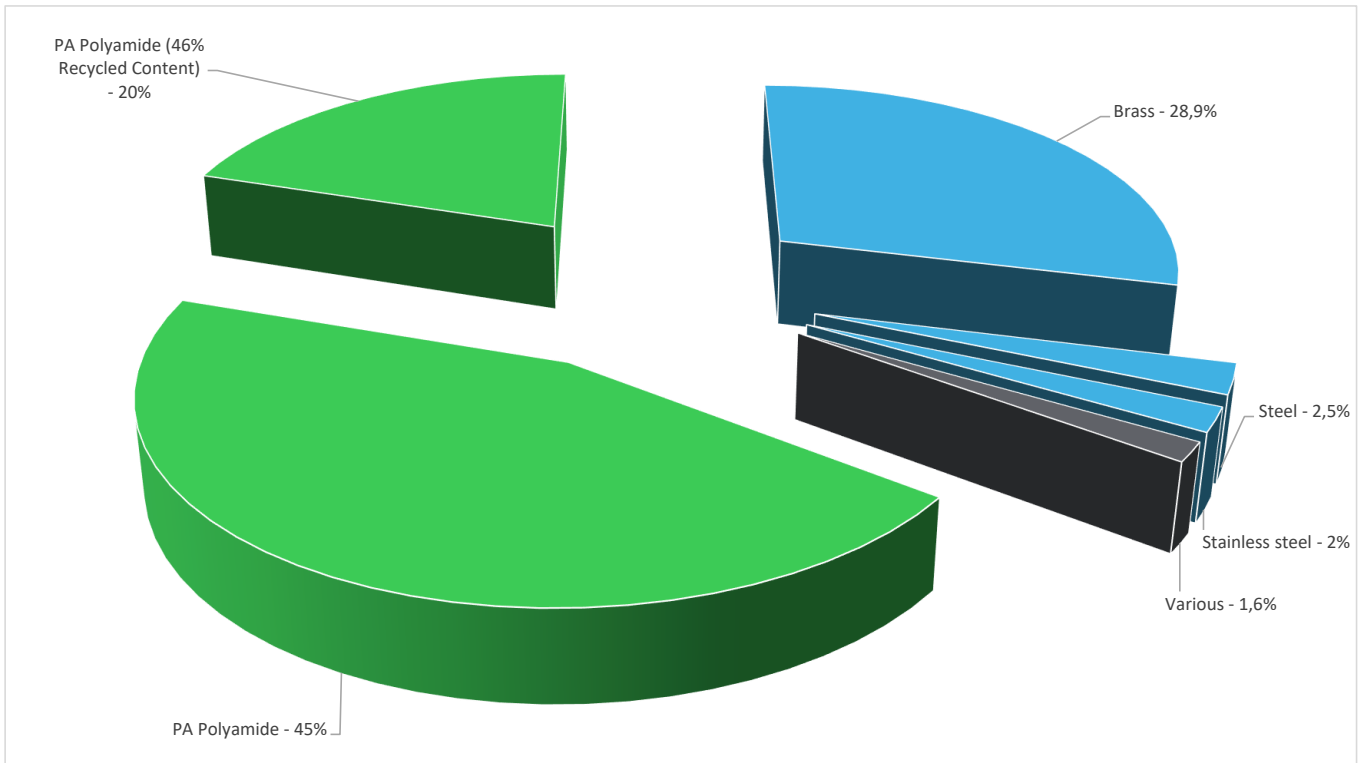


General information

Reference product	Mureva PK - Industrial Plug & Socket - 32A - 3P+N+E - screw - PKF32F435
Description of the product	The function of the socket is to allow users to connect and disconnect the plug of an electrical load or the source from a power socket
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. All IPS in Mureva PK's range from 16 to 125A
Functional unit	Connect/Disconnect during 20 years the plug of a load consuming 32A under a voltage of 380 to 415V while protecting the user from direct contact with live parts and with a protection class IP44 and IK08.

Constituent materials

Reference product mass	243 g	including the product, its packaging and additional elements and accessories
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Plastics	65,0%
Metals	33,4%
Others	1,6%

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:	33%	Recyclability rate has been calculated based on REEECYLAB 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	20 years		
Product category	Power socket		
Installation elements	Reference PKF32F435 does not require any special installation operations. The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).		
Use scenario	Load rate: 50 % of 32A (In) Use rate: 50% of 20 years (RLT)		
Geographical representativeness	Europe		
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		
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2018; Italy, IT	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27
			[C1 - C4]
			Electricity Mix; Low voltage; 2018; Europe, EU-27

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		Mureva PK - Industrial Plug & Socket - 32A - 3P+N+E - screw - PKF32F435						
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	2,16E+01	1,65E+00	3,18E-02	0*	1,91E+01	7,65E-01	-2,22E-01
Contribution to climate change-fossil	kg CO2 eq	2,15E+01	1,64E+00	3,18E-02	0*	1,91E+01	7,65E-01	-2,21E-01
Contribution to climate change-biogenic	kg CO2 eq	3,61E-02	1,06E-02	0*	0*	2,55E-02	0*	-8,64E-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	2,04E-07	1,20E-07	4,86E-11	0*	8,18E-08	2,17E-09	-1,08E-07
Contribution to acidification	mol H+ eq	1,25E-01	1,43E-02	2,04E-04	0*	1,09E-01	9,53E-04	-1,74E-03
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	1,00E-04	4,81E-05	1,19E-08	0*	5,23E-05	4,51E-08	5,81E-06
Contribution to eutrophication marine	kg N eq	1,43E-02	1,61E-03	9,60E-05	0*	1,24E-02	1,85E-04	-1,07E-04
Contribution to eutrophication, terrestrial	mol N eq	2,07E-01	1,76E-02	1,05E-03	0*	1,86E-01	2,17E-03	-1,27E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	4,60E-02	5,25E-03	2,66E-04	0*	3,98E-02	6,97E-04	-6,19E-04
Contribution to resource use, minerals and metals	kg Sb eq	9,91E-05	9,77E-05	0*	0*	1,39E-06	0*	-6,20E-05
Contribution to resource use, fossils	MJ	5,31E+02	2,63E+01	4,43E-01	0*	4,87E+02	1,74E+01	-2,96E+00
Contribution to water use	m3 eq	-4,09E-01	-1,22E+00	0*	0*	0*	0*	-3,91E-01

Additional indicators for the French regulation are available as well

Inventory flows Indicators			Mureva PK - Industrial Plug & Socket - 32A - 3P+N+E - screw - PKF32F435					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
			[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	9,38E+01	2,54E-01	0*	0*	9,35E+01	0*	-3,71E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to total use of renewable primary energy resources	MJ	9,38E+01	2,54E-01	0*	0*	9,35E+01	0*	-3,71E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5,26E+02	2,16E+01	4,43E-01	0*	4,87E+02	1,74E+01	-3,65E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	4,79E+00	4,79E+00	0*	0*	0*	0*	6,86E-01
Contribution to total use of non-renewable primary energy resources	MJ	5,31E+02	2,63E+01	4,43E-01	0*	4,87E+02	1,74E+01	-2,96E+00
Contribution to use of secondary material	kg	2,52E-02	2,52E-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	-9,52E-03	-2,84E-02	0*	0*	0*	0*	-9,10E-03
Contribution to hazardous waste disposed	kg	8,09E+00	7,47E+00	0*	0*	3,57E-01	2,55E-01	-4,58E+00
Contribution to non hazardous waste disposed	kg	3,00E+00	7,61E-02	1,11E-03	0*	2,75E+00	1,76E-01	-1,50E-01
Contribution to radioactive waste disposed	kg	6,16E-04	3,17E-05	7,93E-07	0*	5,76E-04	7,31E-06	-7,12E-05
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	8,12E-02	0*	0*	0*	0*	8,12E-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 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>

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.

