

# Product Environmental Profile

## Harmony Mixed Contact Socket For RPM1



**Schneider**  
Electric

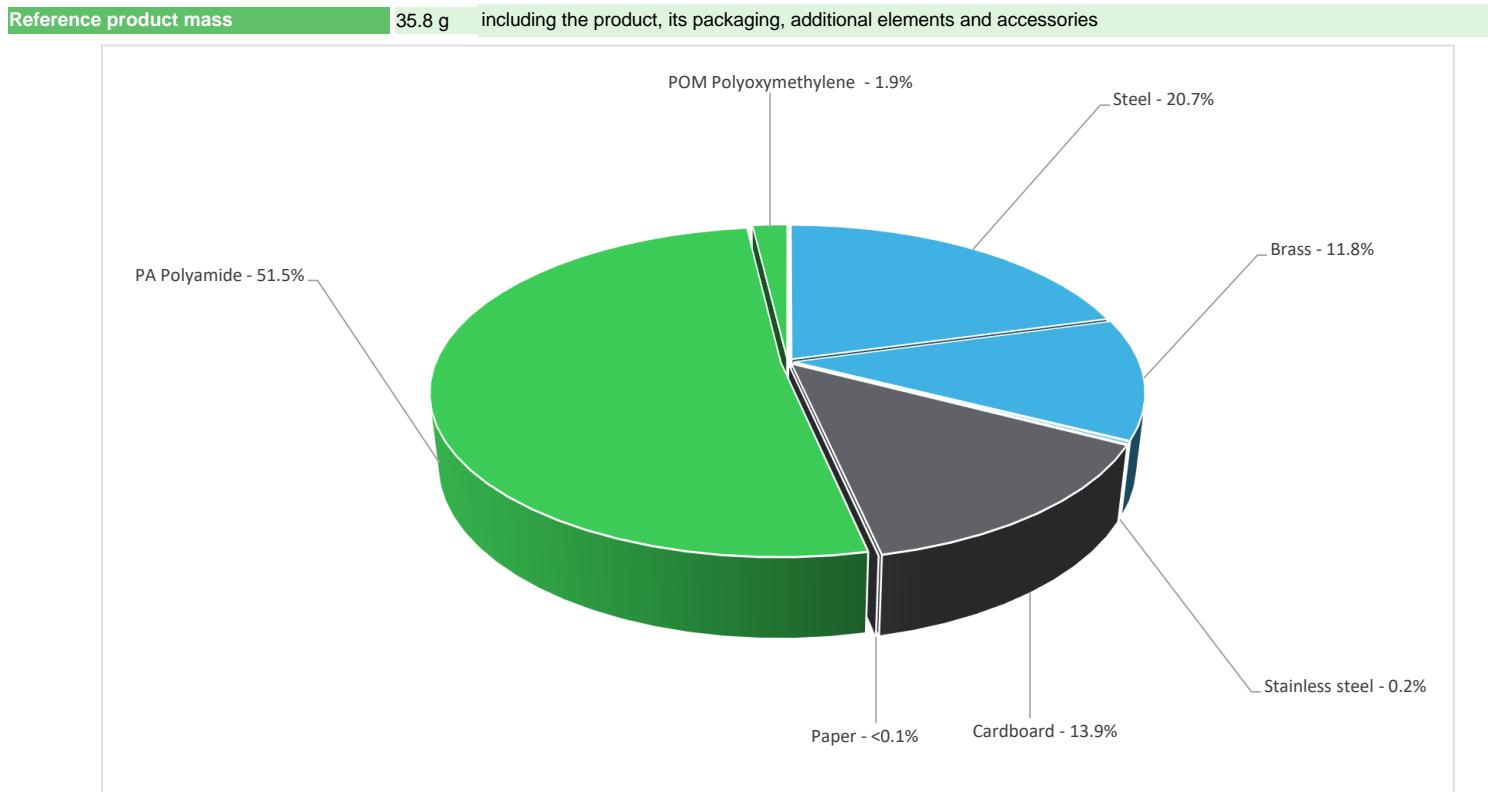


## General information

Reference product	Harmony Mixed Contact Socket For RPM1 - RPZF1
Description of the product	Main purpose of RPZF1 socket is to provide a mixed contact terminals and screw connector connection for the RPM1 plug-in relays which has quick connection link to relay pins, optimize design flexibility and expedite installation with less maintainence.
Description of the range	Single product
Functional unit	RPZF1 is a socket that can be mounted with RPM1 plug in relays and protect the persons during 20 years lifetime with the following dimensions 80mm x 31mm x 21mm and product is adhering to international standards.
Specifications are:	<p>IP = IP20 conforming to IEC 60529</p> <p>Standards :</p> <p>IEC 61984 CSA C22.2 No 14 UL 508</p> <p>Product certifications : UL, CSA, EAC, CE</p> <p>Dielectric strength : 2500 V</p>



## Constituent materials



Plastics	53.4%
Metals	32.7%
Others	13.9%



## 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:	37%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REECCY'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).
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## Environmental impacts

Reference service life time	20 years								
Product category	Unequipped enclosures								
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								
Use scenario	There is no use scenario to be considered								
Time representativeness	The collected data are representative of the year 2024								
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	Rest of the World								
Energy model used	<table border="1"> <tr> <th>[A1 - A3]</th> <th>[A5]</th> <th>[B6]</th> <th>[C1 - C4]</th> </tr> <tr> <td>Electricity Mix; High voltage; 2020; China, CN</td> <td>No energy used</td> <td>Electricity Mix; Low voltage; 2020; Global, GLO</td> <td>Global, European and French datasets are used.</td> </tr> </table>	[A1 - A3]	[A5]	[B6]	[C1 - C4]	Electricity Mix; High voltage; 2020; China, CN	No energy used	Electricity Mix; Low voltage; 2020; Global, GLO	Global, European and French datasets are used.
[A1 - A3]	[A5]	[B6]	[C1 - C4]						
Electricity Mix; High voltage; 2020; China, CN	No energy used	Electricity Mix; Low voltage; 2020; Global, GLO	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		Harmony Mixed Contact Socket For RPM1 - RPZF1						
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	4.00E-01	3.06E-01	2.53E-02	1.92E-04	0*	6.90E-02	-4.86E-02
Contribution to climate change-fossil	kg CO2 eq	4.07E-01	3.13E-01	2.53E-02	1.92E-04	0*	6.89E-02	-4.85E-02
Contribution to climate change-biogenic	kg CO2 eq	-6.92E-03	-6.98E-03	0*	0*	0*	0*	-1.11E-04
Contribution to climate change-land use and land use change	kg CO2 eq	6.48E-09	5.21E-10	0*	0*	0*	5.96E-09	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	7.98E-08	5.67E-08	2.24E-08	0*	0*	6.83E-10	-1.04E-08
Contribution to acidification	mol H+ eq	2.47E-03	2.23E-03	1.08E-04	2.65E-06	0*	1.31E-04	-2.77E-04
Contribution to eutrophication, freshwater	kg P eq	5.88E-06	5.82E-06	2.97E-09	9.74E-10	0*	5.01E-08	-1.05E-07
Contribution to eutrophication, marine	kg N eq	4.74E-04	3.92E-04	4.96E-05	1.25E-06	0*	3.12E-05	-2.75E-05
Contribution to eutrophication, terrestrial	mol N eq	4.92E-03	4.01E-03	5.38E-04	1.27E-05	0*	3.59E-04	-3.15E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.54E-03	1.27E-03	1.77E-04	3.06E-06	0*	9.34E-05	-1.14E-04
Contribution to resource use, minerals and metals	kg Sb eq	2.74E-05	2.74E-05	0*	0*	0*	0*	-1.21E-05
Contribution to resource use, fossils	MJ	6.02E+00	5.37E+00	3.15E-01	2.25E-03	0*	3.29E-01	-9.49E-01
Contribution to water use	m3 eq	1.15E-01	1.07E-01	1.29E-03	4.66E-04	0*	6.89E-03	-2.13E-02

Inventory flows Indicators		Harmony Mixed Contact Socket For RPM1 - RPZF1						
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 renewable primary energy used as energy	MJ	1.11E-01	9.70E-02	0*	0*	0*	1.36E-02	-7.21E-03
Contribution to renewable primary energy used as raw material	MJ	3.59E-02	3.59E-02	0*	0*	0*	0*	0.00E+00
Contribution to total renewable primary energy	MJ	1.46E-01	1.33E-01	0*	0*	0*	1.36E-02	-7.21E-03
Contribution to non renewable primary energy used as energy	MJ	5.37E+00	4.72E+00	3.15E-01	2.25E-03	0*	3.29E-01	-9.49E-01
Contribution to non renewable primary energy used as raw material	MJ	6.52E-01	6.52E-01	0*	0*	0*	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	6.02E+00	5.37E+00	3.15E-01	2.25E-03	0*	3.29E-01	-9.49E-01
Contribution to use of secondary material	kg	3.75E-03	3.75E-03	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 fresh water	m³	2.70E-03	2.48E-03	2.99E-05	1.08E-05	0*	1.80E-04	-4.95E-04
Contribution to hazardous waste disposed	kg	1.30E+00	1.30E+00	0*	0*	0*	1.68E-04	-9.36E-01
Contribution to non hazardous waste disposed	kg	2.22E-01	1.82E-01	2.58E-05	5.09E-03	0*	3.56E-02	-3.07E-02
Contribution to radioactive waste disposed	kg	3.67E-05	3.02E-05	5.04E-06	4.13E-09	0*	1.47E-06	-1.40E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.28E-02	1.04E-03	0*	0*	0*	1.17E-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	1.27E-04	1.09E-05	0*	0*	0*	1.16E-04	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 1.42E-03

\* 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		Harmony Mixed Contact Socket For RPM1 - RPZF1							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-fossil	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-biogenic	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	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	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to acidification	mol H+ eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication, freshwater	kg P eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication marine	kg N eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication, terrestrial	mol N eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, minerals and metals	kg Sb eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, fossils	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to water use	m³ eq	0*	0*	0*	0*	0*	0*	0*	0*

Inventory flows Indicators		Harmony Mixed Contact Socket For RPM1 - RPZF1							
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	0*	0*	0*	0*	0*	0*	0*	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	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	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	0*	0*	0*	0*	0*	0*	0*	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	m³	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to non hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to radioactive waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	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 v6.3.0.1-4, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

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 :	ENVPEP2506024_V1	Drafting rules Supplemented by Information and reference documents	PEP-PCR-ed4-2021 09 06 PSR-0005-ed3-2023 06 06 <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue	06-2025	Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14021 : 2016

Internal  External

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDmain)

PEPs are compliant with XP C08-100-1:2016 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 14021:2016 "Environmental labels and declarations. Type II environmental declarations"

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