Product Environmental Profile

Harmony RXG Interface Plug-in Relay

Harmony RXG Series







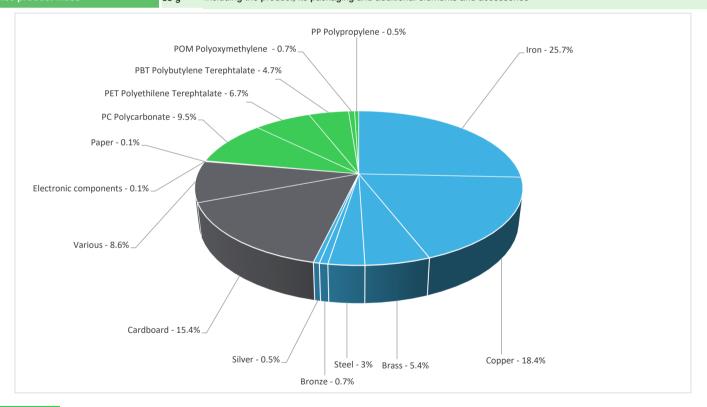
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General information

Reference product	Harmony RXG Interface Plug-in Relay - RXG22P7
Description of the product	The product is an electrically operated switch which enables current to flow through it on one circuit and can switch a current on and off on a second circuit.
Description of the range	The products of the range are: Harmony This range consists of RXG series designed for plug-in mounting with sockets with mixed or separate contact terminals on the DIN rails and provide with 1 and 2 C/O contacts. Input voltage range from 24 to 230 Vac and from 12 to 220 Vdc. The RXG relay series are provided with 5A and 10A and input voltages from 6 V to 110 Vdc and 24 V to 230 Vac. 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	Harmony RXG relays are interface plug-in relays with faston pins for better reliability and robust installation. This relays offer a broad range of coil voltages from 6 V to 110 Va and 24 V to 230 Va. The RXG interface relay range comprises 10 A relays with 1 CO contact and 5 A relays with 2 CO contacts and it also offers sockets with separate or mixed contact terminals, built-in plastic maintaining clamp. Product is adhering to IEC 61810-1 & UL 508 standards.
Specifications are:	IP40 degree of protection conforming to IEC 60529 Rated operational current 5 A at 30 V (DC), 5 A at 250 V (AC) conforming to UL. Rated operational current 5 A at 30 V (DC), 5 A at 250 V (AC) conforming to IEC.

Constituent materials

erence product mass 33 g including the product, its packaging and additional elements and accessories



 Plastics
 22.1%

 Metals
 53.7%

 Others
 24.2%



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/

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(1) Additional environmental information

End Of Life

Recyclability potential:

69%

The recyclability rate was calculated from the recycling rates of each material making up the product with the exception of data using the ESR database. For materials or components using the ESR database or the absence of data the conservative hypothesis "0% recyclability" was used.



T Environmental impacts

Reference service life time	10 years										
Product category	Other equipments - Active product										
Installation elements	The product does not require any installation operations										
Use scenario	The product is in active mode 30% of the time with a power use of 0.901 W and in off mode 70% of the time with a power use of 0 W for 10 years										
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 représentaive of the actual type of technologies used to make the product.										
Geographical representativeness	Rest of the World	Rest of the World									
	[A1 - A3]	[A5]	[B6]	[C1 - C4]							
		Electricity Mix; Low voltage; 2018; Asia Pacific, APAC	Electricity Mix; Low voltage; 2018; Asia Pacific, APAC	Electricity Mix; Low voltage; 2018; Asia Pacific, APAC							
Energy model used		Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage 2018; Europe, EU-27							
Lifergy filoder dised	Electricity Mix; High voltage; 2018; China, CN	Electricity Mix; Low voltage; 2018; United States, US	Electricity Mix; Low voltage; 2018; United States, US	Electricity Mix; Low voltage; 2018; United States, US							
		Electricity Mix; Low voltage; 2018; Brazil, BR	Electricity Mix; Low voltage; 2018; Brazil, BR	Electricity Mix; Low voltage; 2018; Brazil, BR							

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.schneider-

	Harmony RXG Interface Plug-in Relay - RXG22P7										
Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads				
kg CO2 eq	1.50E+01	1.84E-01	6.55E-02	0*	1.46E+01	6.47E-02	-6.83E-02				
kg CO2 eq	1.49E+01	1.81E-01	6.55E-02	0*	1.46E+01	6.33E-02	-6.70E-02				
kg CO2 eq	1.40E-02	3.13E-03	0*	0*	9.58E-03	1.33E-03	-1.30E-03				
kg CO2 eq	4.93E-06	4.91E-06	0*	0*	0*	2.08E-08	0.00E+00				
kg CFC-11 eq	1.87E-07	5.74E-08	5.75E-08	0*	7.14E-08	6.68E-10	-2.02E-08				
mol H+ eq	9.92E-02	2.85E-03	2.69E-04	0*	9.58E-02	2.83E-04	-1.31E-03				
kg (PO4)³- eq	6.18E-05	8.80E-06	7.63E-09	0*	1.39E-05	3.92E-05	-1.79E-07				
kg N eq	1.10E-02	2.99E-04	1.22E-04	1.29E-06	1.06E-02	4.73E-05	-4.49E-05				
mol N eq	1.36E-01	3.24E-03	1.33E-03	0*	1.31E-01	5.66E-04	-5.12E-04				
kg COVNM eq	3.66E-02	1.13E-03	4.43E-04	0*	3.49E-02	1.62E-04	-2.41E-04				
kg Sb eq	1.70E-04	1.68E-04	0*	0*	4.68E-07	1.24E-06	-1.65E-05				
MJ	2.82E+02	2.99E+00	8.11E-01	0*	2.76E+02	2.60E+00	-9.98E-01				
m3 eq	8.33E-01	2.07E-01	3.31E-03	5.17E-04	5.76E-01	4.66E-02	-7.13E-02				
	kg CO2 eq kg CO2 eq kg CO2 eq kg CO2 eq kg CFC-11 eq mol H+ eq kg (PO4)³ eq kg N eq mol N eq kg COVNM eq kg Sb eq MJ	kg CO2 eq 1.50E+01 kg CO2 eq 1.49E+01 kg CO2 eq 1.49E+01 kg CO2 eq 1.40E-02 kg CO2 eq 4.93E-06 kg CFC-11 1.87E-07 eq 9.92E-02 kg (PO4)³- eq 6.18E-05 kg N eq 1.10E-02 mol N eq 1.36E-01 kg COVNM 2.66E-02 kg Sb eq 1.70E-04 MJ 2.82E+02	Unit Total (without Module D) [A1 - A3] - Manufacturing kg CO2 eq 1.50E+01 1.84E-01 kg CO2 eq 1.49E+01 1.81E-01 kg CO2 eq 1.40E-02 3.13E-03 kg CO2 eq 4.93E-06 4.91E-06 kg CFC-11 eq 1.87E-07 5.74E-08 mol H+ eq 9.92E-02 2.85E-03 kg (PO4)³- eq 6.18E-05 8.80E-06 kg N eq 1.10E-02 2.99E-04 mol N eq 1.36E-01 3.24E-03 kg COVNM eq 3.66E-02 1.13E-03 kg Sb eq 1.70E-04 1.68E-04 MJ 2.82E+02 2.99E+00	Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution kg CO2 eq 1.50E+01 1.84E-01 6.55E-02 kg CO2 eq 1.49E+01 1.81E-01 6.55E-02 kg CO2 eq 1.40E-02 3.13E-03 0* kg CO2 eq 4.93E-06 4.91E-06 0* kg CFC-11 eq 1.87E-07 5.74E-08 5.75E-08 mol H+ eq 9.92E-02 2.85E-03 2.69E-04 kg (PO4)³- eq 6.18E-05 8.80E-06 7.63E-09 kg N eq 1.10E-02 2.99E-04 1.22E-04 mol N eq 1.36E-01 3.24E-03 1.33E-03 kg COVNM eq 3.66E-02 1.13E-03 4.43E-04 kg Sb eq 1.70E-04 1.68E-04 0* MJ 2.82E+02 2.99E+00 8.11E-01	Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation kg CO2 eq 1.50E+01 1.84E-01 6.55E-02 0* kg CO2 eq 1.49E+01 1.81E-01 6.55E-02 0* kg CO2 eq 1.40E-02 3.13E-03 0* 0* kg CO2 eq 4.93E-06 4.91E-06 0* 0* kg CFC-11 eq 1.87E-07 5.74E-08 5.75E-08 0* mol H+ eq 9.92E-02 2.85E-03 2.69E-04 0* kg (PO4)³- eq 6.18E-05 8.80E-06 7.63E-09 0* kg N eq 1.10E-02 2.99E-04 1.22E-04 1.29E-06 mol N eq 1.36E-01 3.24E-03 1.33E-03 0* kg COVNM eq 3.66E-02 1.13E-03 4.43E-04 0* kg Sb eq 1.70E-04 1.68E-04 0* 0* MJ 2.82E+02 2.99E+00 8.11E-01 0*	Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation [B1 - B7] - Use kg CO2 eq 1.50E+01 1.84E-01 6.55E-02 0* 1.46E+01 kg CO2 eq 1.49E+01 1.81E-01 6.55E-02 0* 1.46E+01 kg CO2 eq 1.40E-02 3.13E-03 0* 0* 9.58E-03 kg CO2 eq 4.93E-06 4.91E-06 0* 0* 0* kg CFC-11 eq 1.87E-07 5.74E-08 5.75E-08 0* 7.14E-08 mol H+ eq 9.92E-02 2.85E-03 2.69E-04 0* 9.58E-02 kg N eq 1.10E-05 8.80E-06 7.63E-09 0* 1.39E-05 kg N eq 1.36E-01 3.24E-03 1.33E-03 0* 1.31E-01 kg COVNM eq 3.66E-02 1.13E-03 4.43E-04 0* 3.49E-02 kg Sb eq 1.70E-04 1.68E-04 0* 0* 4.68E-07 MJ 2.82E+02 2.99E+00 8.11E-01 0*	Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation [B1 - B7] - End of life kg CO2 eq 1.50E+01 1.84E-01 6.55E-02 0° 1.46E+01 6.47E-02 kg CO2 eq 1.49E+01 1.81E-01 6.55E-02 0° 1.46E+01 6.33E-02 kg CO2 eq 1.40E-02 3.13E-03 0° 0° 9.58E-03 1.33E-03 kg CO2 eq 4.93E-06 4.91E-06 0° 0° 0° 2.08E-08 kg CFC-11 eq 1.87E-07 5.74E-08 5.75E-08 0° 7.14E-08 6.68E-10 mol H+ eq 9.92E-02 2.85E-03 2.69E-04 0° 9.58E-02 2.83E-04 kg N eq 1.10E-02 2.99E-04 1.22E-04 1.29E-06 1.06E-02 4.73E-05 mol N eq 1.36E-01 3.24E-03 1.33E-03 0° 1.31E-01 5.66E-04 kg COVNM eq 1.70E-04 1.68E-04 0° 0° 4.68E-07 1.24E-06 kg Sb eq 1.70E-04				

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Inventory flows Indicators		Harmony RXG Interface Plug-in Relay - RXG22P7								
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	3.88E+01	6.06E-02	0*	0*	3.87E+01	2.99E-02	-3.05E-02		
Contribution to use of renewable primary energy resources used as raw material	MJ	1.06E-01	1.06E-01	0*	0*	0*	0*	0.00E+00		
Contribution to total use of renewable primary energy resources	MJ	3.89E+01	1.67E-01	0*	0*	3.87E+01	2.99E-02	-3.05E-02		
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.82E+02	2.66E+00	8.11E-01	0*	2.76E+02	2.60E+00	-9.98E-01		
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.30E-01	3.30E-01	0*	0*	0*	0*	0.00E+00		
Contribution to total use of non-renewable primary energy resources	MJ	2.82E+02	2.99E+00	8.11E-01	0*	2.76E+02	2.60E+00	-9.98E-01		
Contribution to use of secondary material	kg	1.34E-05	1.34E-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	1.94E-02	4.87E-03	7.70E-05	1.20E-05	1.34E-02	1.08E-03	-1.66E-03		
Contribution to hazardous waste disposed	kg	1.89E+00	1.53E+00	0*	0*	3.57E-01	0*	-1.36E+00		
Contribution to non hazardous waste disposed	kg	2.52E+00	1.85E-01	0*	5.33E-03	2.32E+00	8.47E-03	-2.15E-02		
Contribution to radioactive waste disposed	kg	3.11E-04	3.52E-05	1.30E-05	0*	2.62E-04	3.89E-07	-1.08E-05		
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00		
Contribution to materials for recycling	kg	2.01E-02	2.62E-03	0*	0*	0*	1.75E-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	1.99E-04	2.65E-05	0*	0*	0*	1.73E-04	0.00E+00		
* represents less than 0.01% of the total life cycle of the reference flow										
Contails the big society and an acceptant of the containt										

Contribution to biogenic carbon content of the product	kg de C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	1.45E-03

Mandatory Indicators	Harmony RXG Interface Plug-in Relay - RXG22P7								
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.46E+01	0*	0*	0*	0*	0*	1.46E+01	0*
Contribution to climate change-fossil	kg CO2 eq	1.46E+01	0*	0*	0*	0*	0*	1.46E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	9.58E-03	0*	0*	0*	0*	0*	9.58E-03	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	7.14E-08	0*	0*	0*	0*	0*	7.14E-08	0*
Contribution to acidification	mol H+ eq	9.58E-02	0*	0*	0*	0*	0*	9.58E-02	0*
Contribution to eutrophication, freshwater	kg (PO4)³- eq	1.39E-05	0*	0*	0*	0*	0*	1.39E-05	0*
Contribution to eutrophication marine	kg N eq	1.06E-02	0*	0*	0*	0*	0*	1.06E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	1.31E-01	0*	0*	0*	0*	0*	1.31E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.49E-02	0*	0*	0*	0*	0*	3.49E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	4.68E-07	0*	0*	0*	0*	0*	4.68E-07	0*
Contribution to resource use, fossils	MJ	2.76E+02	0*	0*	0*	0*	0*	2.76E+02	0*
Contribution to water use	m3 eq	5.76E-01	0*	0*	0*	0*	0*	5.76E-01	0*

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Inventory flows Indicators	Harmony RXG Interface Plug-in Relay - RXG22P7								
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	3.87E+01	0*	0*	0*	0*	0*	3.87E+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 esources	MJ	3.87E+01	0*	0*	0*	0*	0*	3.87E+01	0*
ontribution to use of non renewable primary energy excluding on renewable primary energy used as raw material	MJ	2.76E+02	0*	0*	0*	0*	0*	2.76E+02	0*
Contribution to use of non renewable primary energy esources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
ontribution to total use of non-renewable primary energy esources	MJ	2.76E+02	0*	0*	0*	0*	0*	2.76E+02	0*
ontribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
ribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
ribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
ntribution to net use of freshwater	m³	1.34E-02	0*	0*	0*	0*	0*	1.34E-02	0*
ntribution to hazardous waste disposed	kg	3.57E-01	0*	0*	0*	0*	0*	3.57E-01	0*
ntribution to non hazardous waste disposed	kg	2.32E+00	0*	0*	0*	0*	0*	2.32E+00	0*
ntribution to radioactive waste disposed	kg	2.62E-04	0*	0*	0*	0*	0*	2.62E-04	0*
ontribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
ontribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
ntribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
ontribution 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

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"

Life cycle assessment performed with EIME version 6.2.3, database version 2024-01 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 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 n	umber :	ENVPEP2208012_V1	Drafting rules	PCR-4-ed4-EN-2021 09 06
			Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue		06-2025	Information and reference documents	www.pep-ecopassport.org
			Validity period	5 years
Independent v	verification of the de	eclaration and data, in compliance with ISO 14021 : 2016		
Internal	X	External		
The PCR revie	ew was conducted	by a panel of experts chaired by Julie Orgelet (DDemain)		
PEPs are com	npliant with XP C08	-100-1:2016 and EN 50693:2019 or NF E38-500 :2022		

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www.se.com ENVPEP2208012_V1 Published by Schneider Electric

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06-2025