Product Environmental Profile

RESI9 DPNN + Vigi DPN



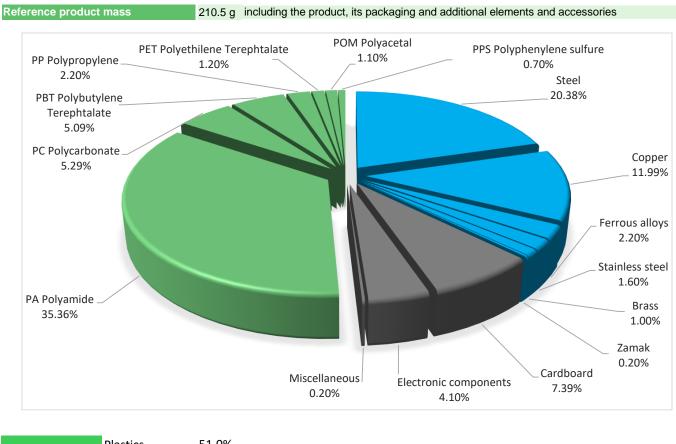


General information

ſĹ

Representative product	RESI9 DPNN + Vigi DPN - R9D44640
Description of the product	Protect the installation against overloads and short circuits and protect people and premises at risk of fire or explosion against insulation defects
Functional unit	Protect during 20 years the installation against overloads and short-circuits and people and premises at risk of fire or explosion against insulation defects in circuit with assigned voltage 230V and rated current 40A. This protection is ensured in accordance with the following parameters: - Number of poles Np:1P+N - Rated breaking capacity Icn: 6000A - Tripping curve Cd:C - Sensitivity S:30mA - Type of differential protection Tp:AC

Constituent materials





Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

Additional environmental information

	The RESI9 DPNN + Vigi DPN presents the following relevent environmental aspects							
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified							
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive							
Distribution	Packaging weight is 15.5 g, consisting of Cardboard (100%)							
Installation	ref R9D44640 does not require any installation operations							
Use	The product does not require special maintenance operations.							
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials							
	This product contains electronic card (19g) Plastic with brominate FR (2.48g) that should be separated from the stream of waste so as to optimize end-of-life treatment.							
End of life	The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website							
	http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page							
	Recyclability potential:79%Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).							

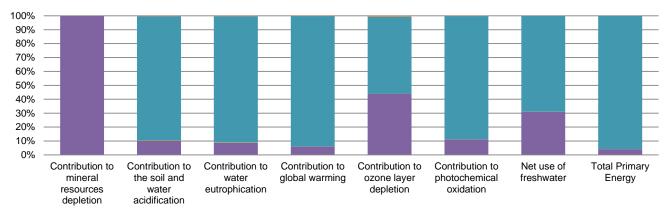
Denvironmental impacts

Reference life time	20 years							
Product category	Differential circuit breaker							
Installation elements	No special components needed							
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT							
Geographical representativeness	China							
Technological representativeness	Protect the installation against overloads and short circuits and protect people and premises at risk of fire or explosion against insulation defects							
	Manufacturing	Installation	Use	End of life				
Energy model used	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN				

	Compulsory indicators		RESI9 DPNI	N + Vigi DPN - R9D	044640			
Impact indicators		Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life

ENVPEP1812008_V1-EN - Product Environmental Profile - RESI9 DPNN + Vigi DPN

Contribution to mineral resources depletion	kg Sb eq	2.92E-04	2.92E-04	0*	0*	9.98E-08	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2.76E-02	2.79E-03	1.24E-04	0*	2.46E-02	6.49E-05
Contribution to water eutrophication	kg PO₄ ³⁻ eq	7.18E-03	6.26E-04	2.86E-05	0*	6.50E-03	2.14E-05
Contribution to global warming	kg CO ₂ eq	2.42E+01	1.44E+00	2.72E-02	0*	2.27E+01	5.00E-02
Contribution to ozone layer depletion	kg CFC11 eq	3.26E-07	1.43E-07	5.50E-11	0*	1.81E-07	2.07E-09
Contribution to photochemical oxidation	$kg C_2H_4 eq$	3.29E-03	3.61E-04	8.85E-06	0*	2.91E-03	6.45E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3.69E-02	1.15E-02	0*	0*	2.54E-02	3.49E-05
Total Primary Energy	MJ	3.89E+02	1.61E+01	3.84E-01	0*	3.72E+02	3.09E-01



■ Manufacturing ■ Distribution ■ Installation ■ Use ■ End of life

Optional indicators		RESI9 DPNN	l + Vigi DPN - R9I	D44640			
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3.53E+02	9.51E+00	3.82E-01	0*	3.43E+02	2.50E-01
Contribution to air pollution	m³	2.67E+03	3.13E+02	1.16E+00	0*	2.36E+03	2.21E+00
Contribution to water pollution	m³	1.63E+03	4.91E+02	4.47E+00	0*	1.13E+03	3.14E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	5.38E-03	5.38E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.98E+01	7.32E-01	0*	0*	1.91E+01	0*
Total use of non-renewable primary energy resources	MJ	3.69E+02	1.54E+01	3.84E-01	0*	3.53E+02	3.09E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.95E+01	4.12E-01	0*	0*	1.91E+01	0*
Use of renewable primary energy resources used as raw material	MJ	3.20E-01	3.20E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.66E+02	1.25E+01	3.84E-01	0*	3.53E+02	3.09E-01
Use of non renewable primary energy resources used as raw material	MJ	2.89E+00	2.89E+00	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	1.03E+01	9.35E+00	0*	0*	7.32E-01	2.53E-01
Non hazardous waste disposed	kg	4.84E+00	7.21E-01	9.65E-04	0*	4.12E+00	9.17E-04
Radioactive waste disposed	kg	6.05E-04	4.67E-04	6.87E-07	0*	1.36E-04	1.64E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.83E-01	1.46E-02	0*	1.54E-02	0*	1.53E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.00E-02	9.76E-05	0*	0*	0*	9.92E-03
Exported Energy	MJ	0.00E+00	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 EIME v5.8.0, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

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 numb	ber	ENVPEP1812008_V1-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue		02/2019	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period		5 years	Information and reference documents	www.pep-ecopassport.org
Independent verifi	cation of	the declaration and data		
Internal	х	External		
The elements of the	he preser	nt PEP cannot be compared with elem	ents from another program.	
Document in com environmental lab		ith ISO 14021:2016 « Environmental I	abels and declarations - Self-declare	d environmental claims (Type II

Schneider Electric Industries SAS Country Customer Care Center http://www.schneider-electric.com/contact 35, rue Joseph Monier CS 30323

F- 92506 Rueil Malmaison Cedex RCS Nanterre 954 503 439 Capital social 896 313 776 €

www.schneider-electric.com

ENVPEP1812008_V1-EN

Published by Schneider Electric

© 2017 - Schneider Electric - All rights reserved

02/2019