

# Product Environmental Profile

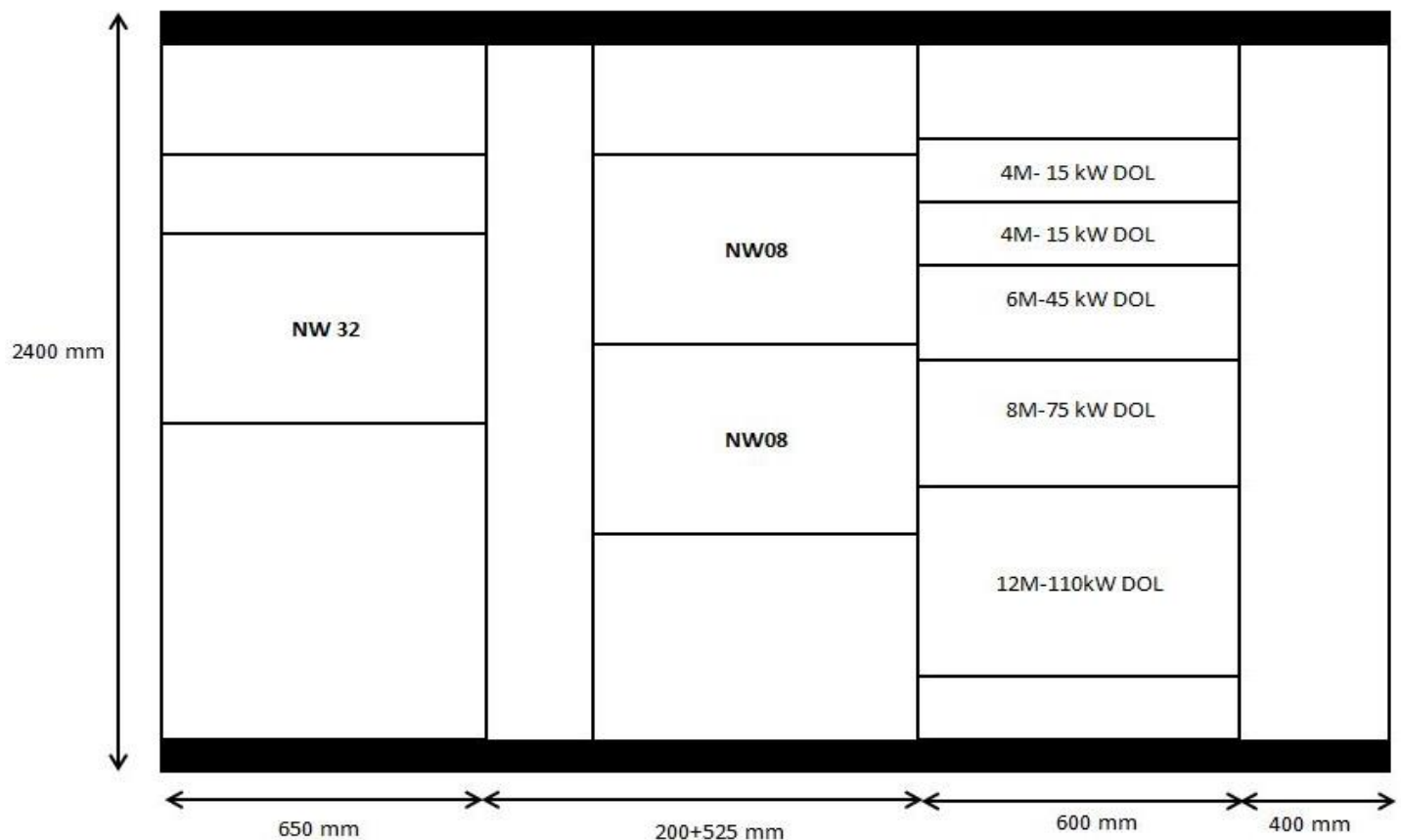
## BLOKSET





## General information

<b>Representative product</b>	BLOKSET
<b>Description of the product</b>	BLOKSET is an assembled enclosures with busbars. It is designed to integrate and allow the installation of electric devices such as Circuit breakers (ACB, MCCB & MCB), Switch disconnectors, Fuse, Busbars for connection as per the customer requirement for a maximum current value of up to rated maximum current 6200A/3500A (Horizontal/Vertical).
<b>Functional unit</b>	It is an assembled enclosures with busbars for maximum rated current 6200A/3500A (Horizontal/Vertical). It is to protect persons during 20 years against direct contact with live parts and allow monitoring, control and protection devices in a single enclosure or a cabinet having the following dimensions 2400 X 2375 X 1200 mm. Continuous current pass through the busbars for the devices to be connected. It can withstand mechanical impacts (IK10 - IEC62262) and the penetration of solid objects and liquids (IP42 - IEC 60529) in accordance with IEC 61439-1 and 2 standards.

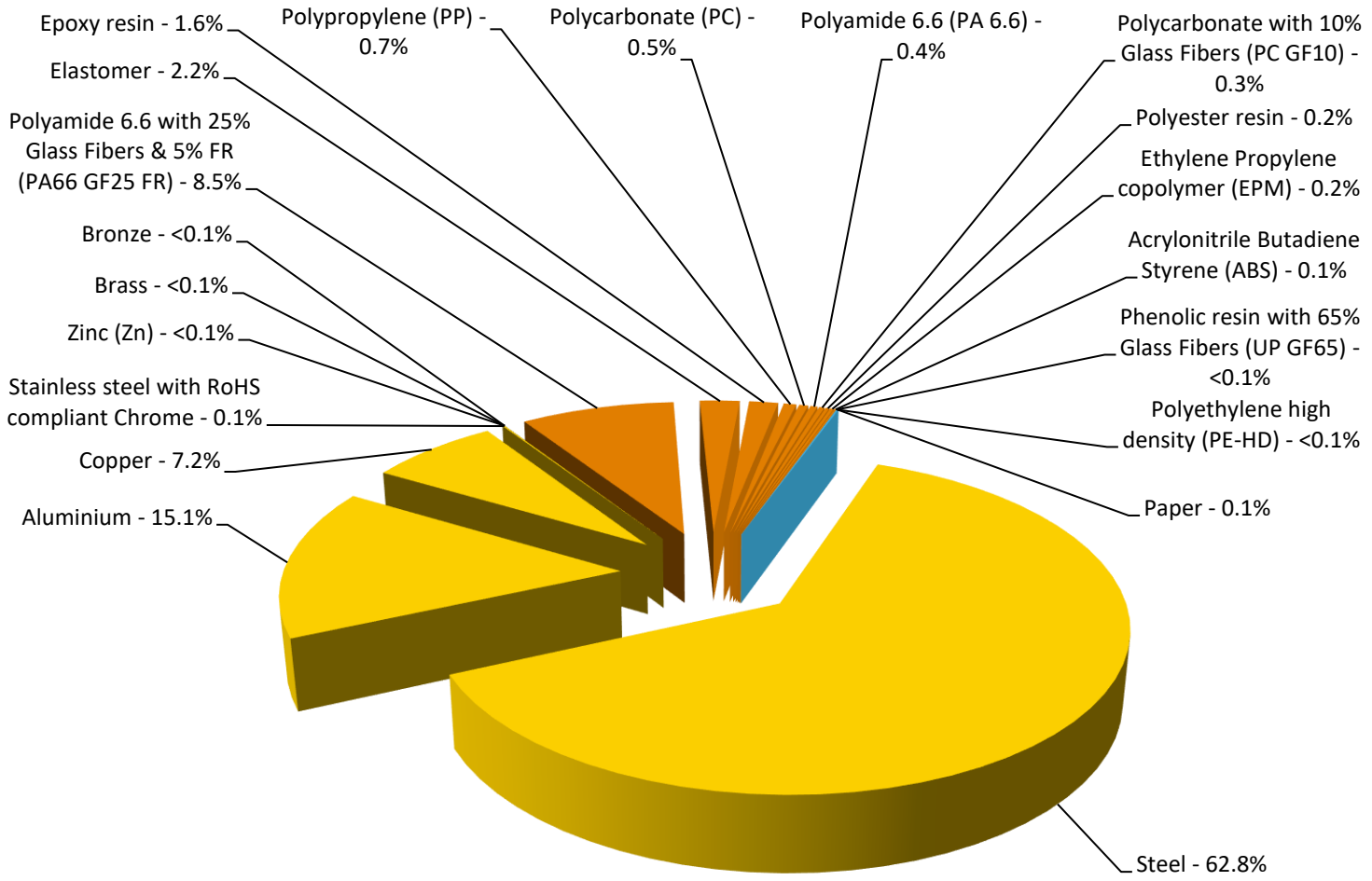


### Lists of functions included in the configuration

BLOKSET Type	Size	Device	Device Function
1. BLOKSET Type D Column 1	Width 650 mm Depth 1200 mm	1x Masterpact NW32 3P Withdrawable	Main Incomer
2. BLOKSET Type D Column 2	Width 725 mm Depth 1200 mm	1x Masterpact NW08 3P Withdrawable 1x Masterpact NW08 3P Withdrawable	3P Distribution feeder 3P Distribution feeder
3. BLOKSET Type Mw2- Column 3	Width 1000 mm Depth 600 mm	1 x 4M 15 kw Coordination Type 2- Drawer-1 1 x 4M 15 kw Coordination Type 2- Drawer-2 1 x 6M 45 kw Coordination Type 2- Drawer-3 1 x 8M 75 kw Coordination Type 2- Drawer-4 1 x 12M 110 kw Coordination Type 2- Drawer-5	3P Motor feeder 3P Motor feeder 3P Motor feeder 3P Motor feeder 3P Motor feeder

## Constituent materials

Reference product mass 1680636 g including the product, its packaging and additional elements and accessories



The environmental impacts have been calculated for elements of BLOKSET. Impacts of circuit breakers, contactors and relays to be assembled have not been integrated in the calculation.

## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the 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

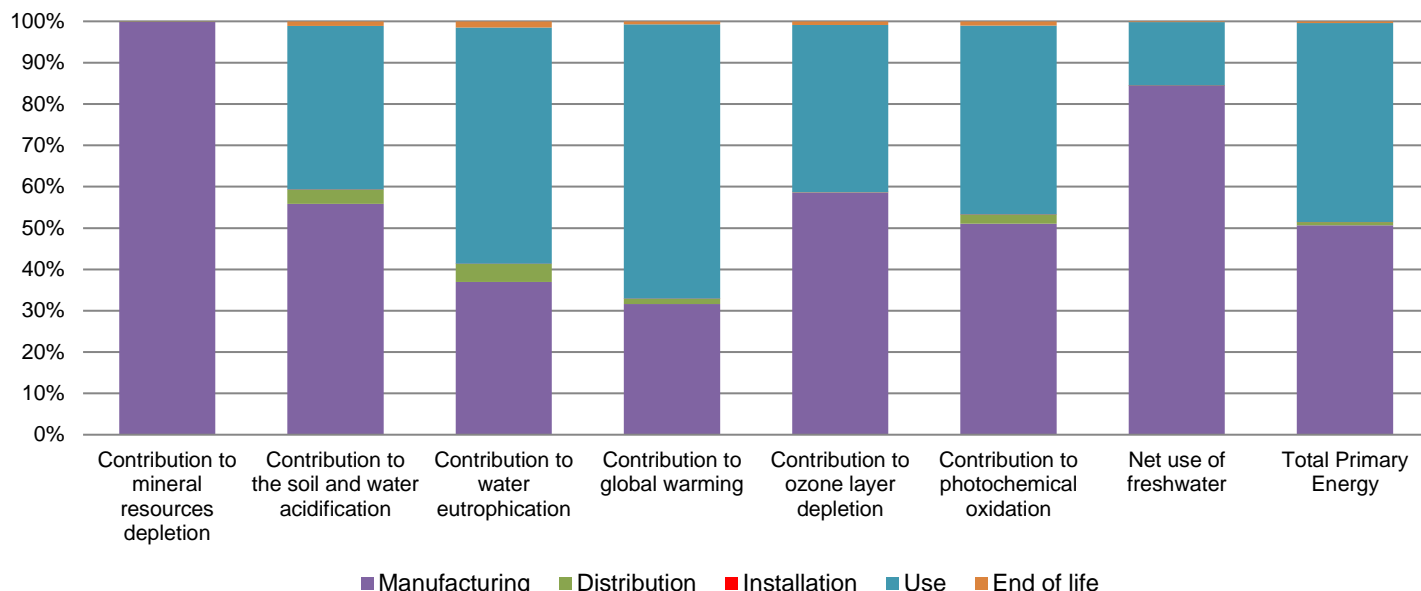
The BLOKSET presents the following relevant environmental aspects

<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 2160.3 g, consisting of Paper (100%).
<b>Installation</b>	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.  Recyclability potential: <b>84%</b> 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).

## Environmental impacts

<b>Reference life time</b>	20 years			
<b>Product category</b>	Passive products - non-continuous operation			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	Product dissipation is 225.975 W, loading rate is 50% and service uptime percentage is 30%			
<b>Geographical representativeness</b>	India, Asia			
<b>Technological representativeness</b>	BLOKSET is an assembled enclosures with busbars. It is designed to integrate and allow the installation of electric devices such as Circuit breakers (ACB, MCCB & MCB), Switch disconnectors, Fuse, Busbars for connection as per the customer requirement for a maximum current value of up to rated maximum current 6200A/3500A (Horizontal/Vertical).			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Baroda, India	Electricity mix; AC; consumption mix, at consumer; 230V; IN	Electricity mix; AC; consumption mix, at consumer; 230V; IN	Electricity mix; AC; consumption mix, at consumer; 230V; IN

Compulsory indicators		BLOKSET					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.43E-01	4.43E-01	0*	0*	8.95E-05	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	4.54E+01	2.54E+01	1.57E+00	0*	1.80E+01	4.92E-01
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	8.30E+00	3.07E+00	3.63E-01	1.49E-03	4.75E+00	1.21E-01
Contribution to global warming	kg CO <sub>2</sub> eq	2.59E+04	8.20E+03	3.31E+02	0*	1.72E+04	1.86E+02
Contribution to ozone layer depletion	kg CFC11 eq	1.18E-03	6.93E-04	6.71E-07	0*	4.78E-04	1.04E-05
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	5.03E+00	2.57E+00	1.13E-01	0*	2.30E+00	5.28E-02
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	1.23E+02	1.04E+02	2.96E-02	0*	1.88E+01	2.03E-01
Total Primary Energy	MJ	5.48E+05	2.78E+05	4.44E+03	0*	2.64E+05	2.39E+03



Optional indicators		BLOKSET						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	3.80E+05	1.04E+05	4.65E+03	0*	2.69E+05	2.24E+03	
Contribution to air pollution	m³	3.35E+06	1.62E+06	1.53E+04	0*	1.70E+06	1.75E+04	
Contribution to water pollution	m³	1.56E+06	6.22E+05	5.45E+04	0*	8.60E+05	1.93E+04	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	5.30E+02	5.30E+02	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	1.48E+04	2.44E+03	6.24E+00	0*	1.24E+04	2.75E+00	
Total use of non-renewable primary energy resources	MJ	5.33E+05	2.75E+05	4.43E+03	0*	2.51E+05	2.39E+03	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.48E+04	2.44E+03	6.24E+00	0*	1.24E+04	2.75E+00	
Use of renewable primary energy resources used as raw material	MJ	0.00E+00	0*	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.25E+05	2.67E+05	4.43E+03	0*	2.51E+05	2.39E+03	
Use of non renewable primary energy resources used as raw material	MJ	8.21E+03	8.21E+03	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	3.51E+04	3.26E+04	0*	0*	5.14E+02	1.97E+03	
Non hazardous waste disposed	kg	8.59E+03	5.71E+03	1.18E+01	2.41E+00	2.85E+03	7.57E+00	
Radioactive waste disposed	kg	4.52E+00	4.30E+00	8.38E-03	0*	2.03E-01	1.17E-02	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	1.63E+03	2.07E+02	0*	0*	0*	1.42E+03	
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	1.07E+01	1.35E+00	0*	0*	0*	9.31E+00	
Exported Energy	MJ	1.24E+00	0*	0*	1.24E+00	0*	0*	

\* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.5, database version 2015-04.

The manufacturing 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.

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Date of issue	03/2021	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			

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](http://www.schneider-electric.com)

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