Product Environmental Profile

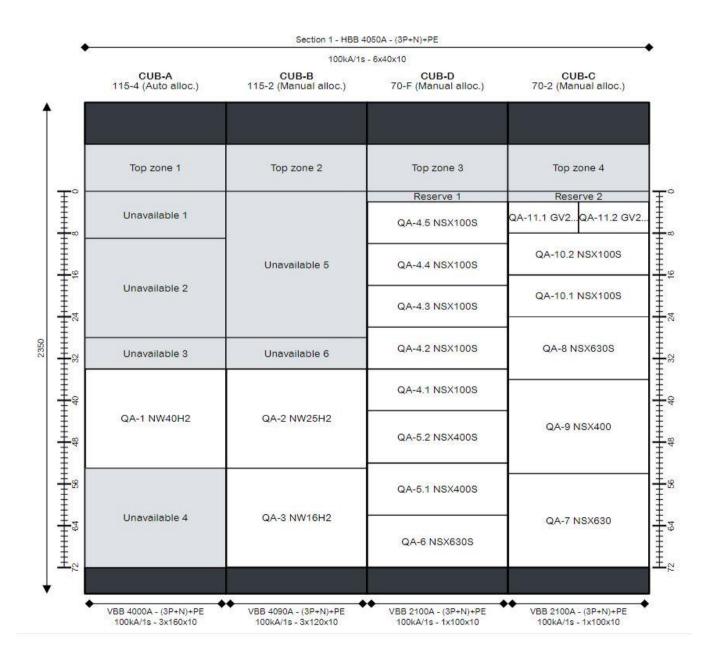
Okken 115, 70-F and 70-2 PCC and MCC low voltage switchboard





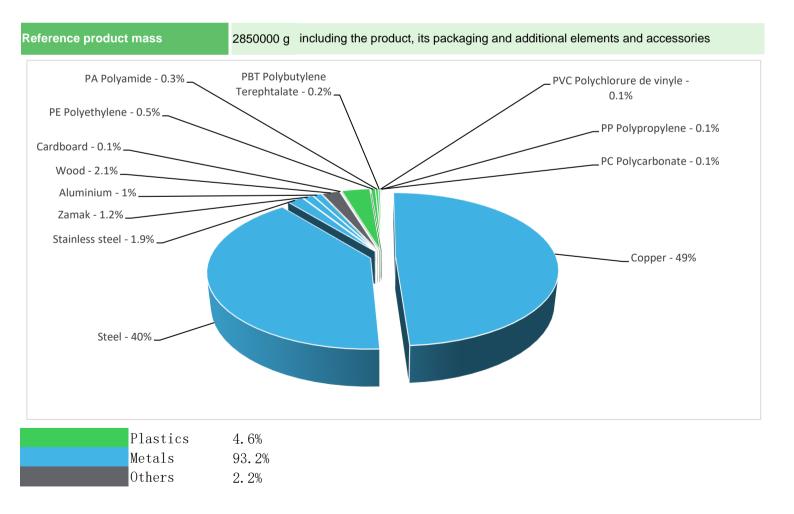
General information

Representative product	Okken 115, 70-F and 70-2 PCC&MCC low voltage switchboard
Description of the product	Okken 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 4000A.
Functional unit	It is an assembled enclosures with busbars for a maximum current value of up to 4000A. 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 2350 x 2600 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 (IP41 - IEC 60529) in accordance with IEC 61439-1 and 2 standards.



Device	Device Commerical Reference	Device function	Module	Quantity	Conclusion
QA-1 MTZ2- NW40H2	48328+48499+48408 +48603	INCOMER 4000A 4P	19/72	1	
QA-2 MTZ2- NW25H2	48306+48358+48406 +48603	FEEDER PCC 2430A 4P	19/72	1	The environmental
QA-2 MTZ2- NW16H2	48280+48358+48404 +48603	FEEDER PCC 1530A 4P	19/72	1	impacts have been
QA-4 NSX100S	C10N4+C1045E100	FEEDER PCC 90A 4P	8/72	5	calculated for elements of Okken enclosure. Impacts
QA-5 NSX400S	C40N4+C4045E400	400 FEEDER PCC 370A 10/72 2		2	of the circuit breakers, contactors and relays to
QA-6 NSX630S	C63N4+C6345E630	FEEDER PCC 570A 4P	10/72	1	be assembled have not
QA-7 250kW	C63N31M500+LC1F500FE7+ LRD05+LAD7B106	FEEDER MCC DOL 250kW	18/72	1	been integrated in the calculation. Cables used
QA-9 132 kW	C40N31M320+LC1F500FE7+ LRD05+LAD7B106	FEEDER MCC DOL132kW	18/72	1	inside the Okken enclosure have not been
QA-8 NSX630S	C63N4+C6345E630	FEEDER PCC 505A 4P	12/72	1	integrated in the
QA-10 NSX100S	C10N4+C1045E100	FEEDER PCC 100A 4P	8/72	2	calculation.
QA-11 3 kW	GV2L14+LC1D09FE7 +LRD12+LAD7305	FEEDER MCC DOL 3kW	6/72	2	

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 EU 2015/863) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium, flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), or phthalates (Bis(2-ethylhexyl) phthalate DEHP, Butyl benzyl phthalate -BBP, Dibutyl phthalate – DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive

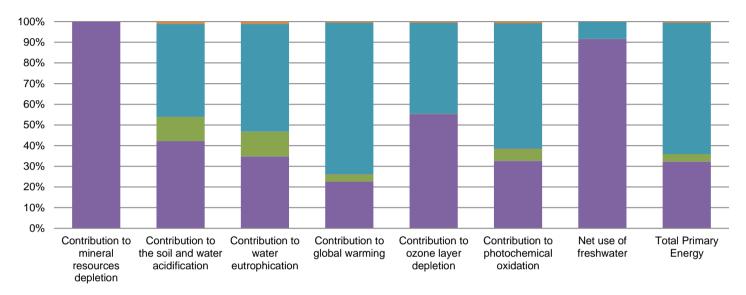
Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

Additional environmental information

The Okken 115, 70-F and 70-2 PCC and MCC low voltage switchboard presents the following relevent environmental aspects						
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified					
	Weight and volume of the packaging optimized, based on the European Union's packaging directive					
Distribution	Packaging weight is 67606.9 g, consisting of Wood (88.75%), LDPE (5.47%), Cardboard (2.66%), Paper (3.12%).					
	Product distribution optimised by setting up local distribution centres					
Installation	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).					
Use	Simple routine maintenance (checking the torque of busbar fasteners, thermal monitor, etc) is required for the product which does not include any complicated activity.					
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials					
	This product contains Plastic parts with brominated FR (5171g). 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:91%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).					

Reference life time	20 years							
Product category	Other equipments - Passive product - continuous operation							
Installation elements	No special components needed							
Use scenario	load rate / rated current (In): 30 % of In percentage of utilization time: 100%							
Geographical representativeness	Middle East							
Technological representativeness	Okken 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 4000A.							
	Manufacturing	Installation	Use	End of life				
Energy model used	Energy model used: SET, Manisa, Turkey	Electricity mix; AC; consumption mix, at consumer; 230V; TR	Electricity mix; AC; consumption mix, at consumer; 230V; TR	Electricity mix; AC; consumption mix, at consumer; 230V; TR				

Compulsory indicators		Okken 115,	70-F and 70-2 PC	C and MCC lo	w voltage sw	itchboard -	87020
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.61E+00	3.61E+00	0*	0*	3.82E-04	0*
Contribution to the soil and water acidification	kg SO_2 eq	7.70E+01	3.25E+01	9.04E+00	3.51E-02	3.46E+01	8.02E-01
Contribution to water eutrophication	kg PO4 ³⁻ eq	1.75E+01	6.10E+00	2.09E+00	1.76E-02	9.13E+00	1.92E-01
Contribution to global warming	kg CO_2 eq	5.62E+04	1.27E+04	1.91E+03	6.44E+01	4.12E+04	2.77E+02
Contribution to ozone layer depletion	kg CFC11 eq	3.19E-03	1.76E-03	3.87E-06	0*	1.41E-03	1.67E-05
Contribution to photochemical oxidation	kg C_2H_4 eq	1.14E+01	3.72E+00	6.51E-01	1.49E-02	6.92E+00	8.66E-02
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3.88E+02	3.56E+02	1.71E-01	0*	3.21E+01	3.23E-01
Total Primary Energy	MJ	7.58E+05	2.45E+05	2.70E+04	0*	4.82E+05	4.04E+03



Manufacturing Distribution

■ Installation ■ Use ■ End of life

Optional indicators		Okken 115,	70-F and 70-2 PC	C and MCC lo	w voltage sw	vitchboard -	87020
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	5.62E+05	1.35E+05	2.68E+04	6.86E+01	3.97E+05	3.24E+03
Contribution to air pollution	m³	1.24E+07	9.31E+06	8.80E+04	1.55E+03	2.92E+06	2.85E+04
Contribution to water pollution	m³	2.59E+06	7.80E+05	3.14E+05	7.53E+02	1.46E+06	3.09E+04
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.36E+02	2.36E+02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	7.86E+04	8.88E+03	3.60E+01	0*	6.97E+04	0*
Total use of non-renewable primary energy resources	MJ	6.79E+05	2.36E+05	2.70E+04	7.36E+01	4.12E+05	4.03E+03
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7.73E+04	7.58E+03	3.60E+01	0*	6.97E+04	0*
Use of renewable primary energy resources used as raw material	MJ	1.30E+03	1.30E+03	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.76E+05	2.33E+05	2.70E+04	7.36E+01	4.12E+05	4.03E+03
Use of non renewable primary energy resources used as raw material	MJ	3.07E+03	3.07E+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	2.90E+05	2.86E+05	0*	0*	8.48E+02	3.05E+03
Non hazardous waste disposed	kg	1.03E+04	5.68E+03	6.79E+01	5.09E+01	4.48E+03	1.24E+01
Radioactive waste disposed	kg	3.75E+00	3.15E+00	4.83E-02	1.77E-03	5.28E-01	1.91E-02

Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.83E+03	2.76E+02	0*	2.21E+01	0*	2.53E+03
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	5.77E+00	0*	0*	0*	0*	5.77E+00
Exported Energy	MJ	4.12E+01	3.87E+00	0*	3.73E+01	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.3, database version 2021-2 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.

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Date of issue		07/2022	Supplemented by	PSR-0005-ed2-EN-2016 03 29
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Independent verific	ation of	the declaration and data		
Internal	Х	External		
The elements of the	e presei	nt PEP cannot be compared with elem	ents from another program.	
Document in comp environmental labe		ith ISO 14021:2016 « Environmental I	abels and declarations - Self-declared	environmental claims (Type II
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