

PRODUCT ENVIRONMENTAL PROFILE Environmental Product Declaration ABB Cable Distribution Cabinet CDC 440 NXT



REGISTRATION NUMBER		IN COMPLIANCE WITH PCR-ed4-EN-2021 09 0	IN COMPLIANCE WITH PCR-ed4-EN-2021 09 06		
ABBG-00375-V01.01-EN		SUPPLEMENTED BY PSR-0005-ed3.1-EN-202	3 12 08		
VERIFIER ACCREDITATION NU	JMBER	INFORMATION AND REFERENCE DOCUMEN	ITS		
VH51		www.pep-ecopassport.org			
DATE OF ISSUE		VALIDITY PERIOD			
04-2025		5 years			
INDEPENDENT VERIFICATION	N OF THE DECLARATION AND DA	TA, IN COMPLIANCE WITH ISO 14025: 2006			
INTERNAL	EXTERNAL 🗵				
THE PCR REVIEW WAS COND	UCTED BY A PANEL OF EXPERTS	CHAIRED BY JULIE ORGELET (DDEMAIN)	PEP		
PEP ARE COMPLIANT WITH X	P C08-100-1 :2016 OR EN 50693:	2019	eco		
THE COMPONENTS OF THE PROGRAM.	PRESENT PEP CANNOT BE COMP	PARED WITH COMPONENTS FROM ANOTHER	PASS PORT _®		
DOCUMENT IN COMPLIANCE	E WITH ISO 14025: 2006 « ENVII III ENVIRONMENTAL DEC	RONMENTAL LABELS AND DECLARATIONS. TYPE LARATIONS »			
© Copyright 2025 ABB. All righ	nts reserved.				



EPD Owner	ABB Electrification Sweden AB, Kabeldon BOX 531, SE-441 15 Alingsås, Sweden www.abb.com
Manufacturer name and address	ABB Electrification Sweden AB, Kabeldon BOX 531, SE-441 15 Alingsås, Sweden
Company contacts	EPD_ELSP@in.abb.com
Reference product	CDC 440 NXT Cabinet
Description of the product	CDC440 range of CDC440 Cabinets provide a robust and safe solution with uncompromised lifetime. The cabinet provides a number of significant benefits such as continuous operation, space saving and fast installation. The entire system, including busbars, connectors and switches are IP2X classified
	The functional unit for this is to protect people from direct contact with live active parts and ensure the grouping of control, command and protection devices in a single enclosure or cabinet having the following dimensions $H \times L \times D$ with rated current In, while protecting them against mechanical impacts (IK) and the penetration of solid objects and liquids (IP), according to the appropriate use scenario, and for the reference service life of the product of 20 years.
Functional unit	H = Height (mm: 1200 L = Width (mm): 600 P = Depth (mm): 220 X = Total number of Cabinets: 1 Pw = Maximum permissible power: 160kW IP = Degree of Ingress protection: 2X
Reference lifetime	20 years
Product category	Electrical, Electronic and HVAC-R Products (Unequipped Enclosures and Cabinets)
Use Scenario	The use phase has been modeled based on the sales mix data (2023), and the corresponding low voltage electricity countries mix
Geographical representativeness	Raw materials & Manufacturing: [Europe / Global] Assembly: [Sweden] Distribution /Installation/ Use: [Global] specific sales mix EoL: [Global]
Technological representa- tiveness	Materials and processes data are specific to the production of CDC 440 NXT Cabinet distribution cabinet
LCA Study	This study is based on the LCA study described in the LCA report 2CGD001797
EPD type	Product family declaration
EPD scope	"Cradle to grave"
Year of reported primary data	2023
LCA software	SimaPro 9.6.0.1 (2024)
LCI database	Ecoinvent v3.10 (2024)

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	2/16
© Copyright 2025 ABB. All rights reserved.						



Contents

ABB Purpose & Embedding Sustainability	4
General Information	4
CDC 440 NXT Cabinets product cluster	5
Constituent Materials	5
LCA background information	6
Functional unit and Reference Flow	
System boundaries and life cycle stages	7
Temporal and geographical boundaries	8
Boundaries in the life cycle	
Data quality	8
Environmental impact indicators	
Allocation rules	9
Limitations and simplifications	
Energy Models	9
Inventory analysis	10
Environmental impacts	12
Additional environmental information	15
References	16

Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	3/16
STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE





ABB Purpose & Embedding Sustainability

ABB is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future. By connecting software to its electrification, robotics, automation and motion portfolio, ABB pushes the boundaries of technology to drive performance to new levels. With a history of excellence stretching back more than 130 years, ABB's success is driven by about 105 thousand talented employees in over 100 countries.

ABB's Electrification business offers a wide-ranging portfolio of products, digital solutions and services, from substation to socket, enabling safe, smart and sustainable electrification. Offerings encompass digital and connected innovations for low voltage and medium voltage, including EV infrastructure, solar inverters, modular substations, distribution automation, power protection, wiring accessories, switchgear, enclosures, cabling, sensing and control. ABB is committed to continually promoting and embedding sustainability across its operations and value chain, aspiring to become a role model for others to follow. With its ABB Purpose, ABB is focusing on reducing harmful emissions, preserving natural resources and championing ethical and humane behavior.



General Information

ABB Switches and fusegears operates in Alingsas in Sweden. ABB Provides a complete low voltage distribution system consisting of cabinets, busbars, switching devices, connectors and wide range of accessories that support a great variety of customer applications.

- ABB products comply with following EC directive: "Low-Voltage Directives" (LVD) no. 2014/35/EU
- ISO 9001 for quality management
- ISO 14001 for environmental management
- OHSAS 18001 for the management of the health and safety of employees in the work-
- ISO 150001 for energy management

Different products produced in ABB Switches an Fusegears are

- SLD & SLE Fuse Switch Disconnectors
- **CDC Cabinets**
- **CMS Cabinets**
- Connectors
- Switches and Moulded Case Circuit breakers

Each brand are specific systems which is developed according to standards for different country distribution systems. The primary scope is to deliver a system with high level of safety, simplicity and reliability. Every installer and surrounding environments should be safe during the 40 years of the products lifetime. The products are critical parts of public infrastructure, and continuous operation needs to be secured.

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	4/16
- ' '	5 ABB. All rights reserved.		2CGD001796	A.003	en	4/10



CDC 440 NXT Cabinets product cluster

CDC 440 NXT Cabinets product cluster provides a robust and safe solution with uncompromised lifetime. The cabinet provides a number of significant benefits such as continuous operation, space saving and fast installation. These benefits are important for achieving low operating cost and high reliability in low voltage distribution systems.

The entire system, including busbars, connectors and switches are IP34D classified.

CDC440 Cabinet product rating

Cable Distribution Cabinet	CDC 440
Rated voltage [V]	400
Rated current [A]	400
Number of poles	4

Table 1: Technical characteristics of CDC 440 Cabinets (Refer Technical catalogue for complete details).



Constituent Materials

CDC 440 NXT Cable distribution cabinet

CDC 440 NXT Cabinets weighs 51.054 kg including its installed accessories, paper documentation and packaging.

Materi- als	Name	IEC 62474 MC	[g]	Weight %
	Steel	M-119	42389.9	83.0%
Metals	Aluminium	M-120	1507.4	3.0%
Metais	Stainless Steel	M-100	71.6	0.1%
	Zinc Alloys	M-124	15.8	<0.1%
	Polyethylene	M-251	440.0	0.9%
	Polybutylene Terephthalate	M-261	326.8	0.6%
Plastics	ABS	M-256	47.0	<0.1%
	Unsaturated Polyester	M-301	5.0	<0.1%
	Polypropylene	M-252	1.1	<0.1%
Other	Wood	M-340	6250.0	12.2%
Total			51054.6	100.0%

Table 2: Weight of materials CDC 440 NXT Cabinet

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	5/16
	5 ABB. All rights reserved.	ADDG 00373 VOLOT EN	Legbooirso		CII	3,10



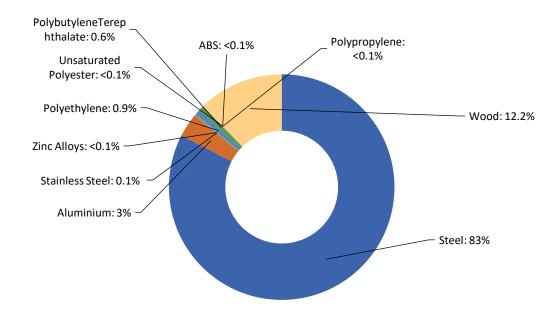


Figure 1: Composition of CDC 440 NXT Cabinet

The following tables shows the packaging weights for CDC 440 NXT Cabinets

Material	Weight (g)
Wood	6250
Polyethylene	440

Table 3: Weight of materials CDC 440 NXT Cabinets Packaging



LCA background information

Functional unit and Reference Flow

The functional unit is the reference unit used to quantify the performance of the service delivered by a product to the user. The main purpose of the functional unit is to provide a reference to which inputs and outputs are related in the LCA.

The functional unit for this is to protect people from direct contact with live active parts and ensure the grouping of control, command and protection devices in a single enclosure or cabinet having the following dimensions $H \times L \times D$ with rated current In, while protecting them against mechanical impacts (IK) and the penetration of solid objects and liquids (IP), according to the appropriate use scenario, and for the reference service life of the product of 20 years:

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	6/16
© Copyright 2025 ABB. All rights reserved.						



Cable distribution cabinets	CDC 440
H = Height (mm)	1200
L = Width (mm)	600
P = Depth (mm)	220
X = Total number of Cabinets	1
Pw = Maximum permissible power	160kW
IP = Degree of Ingress protection	2X

Table 4: Functional unit of CDC 440 NXT Cabinet

The Reference Flow of the study is a single CDC 440 NXT Cabinet (including its packaging and accessories) with mass described in table 2.

System boundaries and life cycle stages

The life cycle of the CDC 440 NXT Low Carbon Cabinet, an EEPS (Electronic and Electrical Products and Systems), is a "from cradle to grave" analysis and covers the following main life cycle stages: manufacturing, including the relevant acquisition of raw material, preparation of semifinished goods, etc. and processing steps; distribution; installation, including the relevant steps for the preparation of the product for use; use including the required maintenance steps within the RSL (reference service life of the product) associated to the reference product; end-of-life stage, including the necessary steps until final disposal or recovery of the product system.

The following table shows the stages of the product life cycle and the information stages according to EN 50693:2019 [3] for the evaluation of electronic and electrical products and systems.

Manufacturing	Distribution	Installation	Use	End-of-Life (EoL)
Acquisition of raw materials				
Transport to manufacturing site Components/parts manufacturing Assembly Packaging	Transport to distributor/ logistic center Transport to place of use	Installation EoL treatment of generated waste (pack- aging)	Usage Mainte- nance	Deinstallation Collection and transport EoL treat-
EoL treatment of generated waste				ment

Table 5: Phases for the evaluation of construction products according to EN50693:2019 [3].

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	7/16
© Copyright 2025 ABB. All rights reserved.						



Temporal and geographical boundaries

The ABB component suppliers are sourced all over the world. All primary data collected are from 2023, which is a representative production year at ABB Alingsas, Sweden. The geographical representiveness for other life cycle stages are global. Secondary data are also representative for this year, as provided by ecoinvent [6].

The selected ecoinvent [6] processes in the LCA model have a global representativeness, due to the unclear origin of each component. In this way, a conservative approach has been adopted.

Boundaries in the life cycle

As indicated in the PCR capital goods such as buildings, machinery, tools and infrastructure, the packaging for internal transport which cannot be allocated directly to the production of the reference product, may be excluded from the system boundary.

Infrastructures, when present, such as processes deriving from the ecoinvent [6] database have not been excluded.

Data quality

In this LCA, both primary and secondary data are used. Site specific foreground data have been provided by ABB. Main data sources are the bill of materials & drawings which are available on the ERP (SAP) & Windchill. For all processes for which primary are not available, generic data originating from the ecoinvent database [6], allocation cut-off by classification, are used. The ecoinvent database available in the SimaPro software [7] is used for the calculations.

The data quality characterized by quantitative and qualitative aspects, is presented in Appendix 1. Each data quality parameter has been rated according to DQR tables from Chapter 7.19.2.2 of the Product Environmental Footprint Guide v.6.3 to give an indication of geography, technology and temporal representativeness.

Environmental impact indicators

The information obtained from the inventory analysis is aggregated according to the effects related to the various environmental issues. According to "PCR-ed4-EN-2021 09 06" and EN 50693 [3] the environmental impact indicators must be determined using the characterization factors and impact assessment methods specified in EN 15804:2019+A2 [8].

PCR-ed4-EN-2021 09 06 and the EN 50693:2019 [3] standard establish four indicators for climate change: Climate change (total) which includes all greenhouse gases; Climate change (fossil fuels); Climate change (biogenic) which includes the emissions and absorption of biogenic carbon dioxide and biogenic carbon stored in the product; Climate change (land use) - land use and land use transformation. Other indicators as per the PCR [1].

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	8/16
© Copyright 2025 ABB. All rights reserved.						



Allocation rules

Allocation coefficients are based on the Cabinet line's occupancy area for electricity, water consumption and the total amount of waste generated by the production line.

All these flows have been allocated and divided by the total number of CDC 440 NXT Cabinets produced in 2023.

Limitations and simplifications

Raw materials life cycle stage includes the extraction of raw materials as well as the transport distances to the manufacturing suppliers. These distances are assumed to be 1000 km as per the PCR. This distance has been added to the one already included in the market processes used for the model, because of a conservative choice made by the LCA operators.

Application of grease lubricant on the CDC 440 NXT Cabinet operating mechanism has been excluded since it is negligible. Surface treatments like galvanizing, silver plating as well as their related transport processes (back and forth from the finishing suppliers) have been considered in the LCA model. Specific phosphate surface treatment, Stearate coating have been excluded by operational choice. Scraps for metal working and plastic processes are included as per PSR [2].

Energy Models

LCA Stage	EN 15804:2012 +A2:2019 module	Energy model	Notes
Raw material ex- traction and pro- cessing	A1-A2	Electricity, {RER} mar- ket group for Cut-off Electricity, {GLO} mar- ket group for Cut-off	Based on materials and supplier's locations
Manufacturing	А3	ABB Green Mix	Specific Energy model for ABB Sweden manufactur- ing plant, 100% renewable
Installation (Packaging EoL)	A 5	Electricity, {GLO} mar- ket group for Cut-off	
Use Stage	B1	Electricity, [country]x market for Cut-off, S **	Low voltage, based on 2023 country sales mix
EoL	C1-C4	Electricity, {GLO} mar- ket group for Cut-off	

Table 6: Energy models used in each LCA stage

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	9/16
© Copyright 2025 ABB. All rights reserved.						

^{**} Please refer the use phase for further description





Inventory analysis

In this LCA, both primary and secondary data are used. Site specific foreground data have been provided by ABB. For data collection, Bills of Material (BOM) extracted from ABB's internal SAP and Windchill ERP were used. They are a list of all the components and assemblies that constitute the finished product, organized by hierarchy level. Each item is matched with its code, quantity, weight and supplier. The BOMs were then processed, adding material, surface area, volume and weight data, taken from technical drawings/datasheets. Finally, the manufacturing process and surface treatment were assigned, according to information provided by R&D personnel. Road distances between the suppliers and ABB were calculated using Google Maps, and marine distances using Distances & Time (Searates).

All primary data collected from ABB are from 2023, which was a representative production year. The Ecoinvent cut-off by classification system processes [6] are used to represent the LCA model

To improve both the inventory and modelling phase of the product, a specific modular dataset framework has been adopted. Raw materials and Manufacturing processes datasets from Ecoinvent database [6] have been clustered and listed inside two distinct mater data tables ABB Raw Materials and ABB Materials & Processes. Data used in the analysis is not older than 10 years.

Manufacturing stage

The CDC 440 NXT Cabinets are composed of a multitude of components, all of which are made from of numerous materials. Most of the inputs to the products' manufacturing stage are already produced component parts.

All the CDC 440 NXT Cabinet's components have been modelled according to their specific raw materials and manufacturing processes.

The single use packaging is also included in the analysis in the manufacturing stage. ABB receives packaged product from supplier, sorts, repacks and delivers to the customer according to the orders.

The entire supplier's network has been modelled with the calculation of each transportation stage, from the first manufacturing supplier to the next.

The energy mix used for the production phase is representative for ABB production site and includes renewable energy only.

Distribution

The transport distances from ABB manufacturing plant to the distribution centers (regional distribution centers / local sales organizations) have been calculated considering the specific 2023 sales mix data for the product cluster (SAP ERP sales data as a source). The Distribution mix is representative of entire product cluster including reference product and products listed in the extrapolation tables.

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	10/16
© Copyright 2025 ABB. All rights reserved.						



The other parameter affecting the environmental impact for this LCA stage is total mass of the product (including its packaging). Different mass values for each specific configuration covered by this study have been considered in the model

As per PSR, additional distance 1000km is considered to account for the last mile delivery distance.

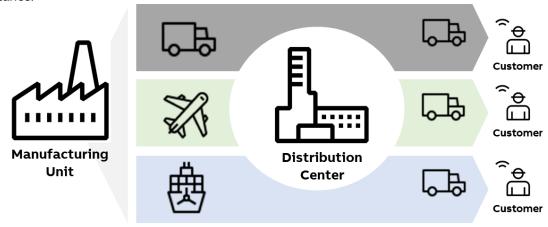


Figure 2: Distribution methodology.

Installation

The installation phase only implies manual activities, and no energy is consumed. This phase also includes the disposal of the packaging of the CDC 440 NXT Cabinet.

For the disposal of the packaging after installation of the product at the end of its life, a transport distance of 100 km (according to PSR [2]) was assumed.

The actual disposal site is unknown and is managed by the customer. The disposal scenario of the packaging for the European scope was calculated based on the latest Eurostat data (EU-27) available (2021). For non-European scope, the disposal scenario used is as per PSR [2].

Use

Since there is no power loss, impacts are zero in Use Phase for Unequipped Cabinets and Enclosures as per PSR [2].

End of life

The end-of-life stage is modelled according to PCR [1] and IEC/TR 62635 [9]. The percentages for end-of-life treatments of materials are taken from IEC/TR 62635 [9].

Since no specific data is available, the transport distances from the place of use to the place of disposal are assumed to be 1000 km (local/domestic transport by lorry, according to PCR [1]).

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	11/16
© Copyright 2025 ABB All rights reserved						





Environmental impacts

The following table show the environmental impact indicators of the life cycle of a single CDC 440 NXT Cabinet, as indicated by PCR [1] and EN 50693:2019 [3]. The indicators are divided into the contribution of the processes to the different stages (manufacturing, distribution, installation, use and end-of-life).

Impact cate- gory	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
GWP-total	kg CO2 eq	2.13E+02	1.96E+02	7.30E+00	3.57E+00	0.00E+00	5.53E+00
GWP-fossil	kg CO2 eq	2.01E+02	1.87E+02	7.29E+00	6.41E-01	0.00E+00	5.53E+00
GWP- biogenic	kg CO2 eq	1.17E+01	8.75E+00	3.74E-03	2.93E+00	0.00E+00	2.39E-03
GWP-luluc	kg CO2 eq	2.61E-01	2.56E-01	2.48E-03	4.59E-05	0.00E+00	2.07E-03
ODP	kg CFC11-eq	6.22E-06	5.97E-06	1.47E-07	2.52E-09	0.00E+00	1.04E-07
AP	mol H+ eq	9.67E-01	9.13E-01	2.93E-02	8.34E-04	0.00E+00	2.42E-02
EP- freshwater	kg P eq	6.34E-02	6.24E-02	4.93E-04	3.79E-05	0.00E+00	4.60E-04
EP-marine	kg N eq	2.25E-01	2.03E-01	1.09E-02	1.14E-03	0.00E+00	9.77E-03
EP-terrestrial	mol N eq	2.29E+00	2.07E+00	1.19E-01	3.80E-03	0.00E+00	9.91E-02
POCP	kg NMVOC eq	7.44E-01	6.61E-01	4.59E-02	1.24E-03	0.00E+00	3.64E-02
ADP-m&m	kg Sb eq	7.82E-03	7.79E-03	1.95E-05	3.00E-07	0.00E+00	1.33E-05
ADP-fossil	МЈ	2.60E+03	2.41E+03	1.06E+02	1.93E+00	0.00E+00	7.84E+01
WDP	m3 of equiv. depriv.	4.96E+01	4.87E+01	5.01E-01	2.94E-02	0.00E+00	3.42E-01
PENRE	МЈ	2.56E+03	2.37E+03	1.06E+02	1.93E+00	0.00E+00	7.84E+01
PENRM	МЈ	3.66E+01	3.66E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	МЈ	2.60E+03	2.41E+03	1.06E+02	1.93E+00	0.00E+00	7.84E+01
PERE	МЈ	1.36E+03	1.35E+03	1.61E+00	2.95E-02	0.00E+00	1.52E+00
PERM	МЈ	1.15E+02	1.15E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1.47E+03	1.47E+03	1.61E+00	2.95E-02	0.00E+00	1.52E+00
SM	kg	4.15E+01	4.15E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	МЈ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	МЈ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PET	МЈ	4.07E+03	3.88E+03	1.08E+02	1.96E+00	0.00E+00	7.99E+01
FW	m3	1.73E+00	1.70E+00	1.57E-02	8.61E-04	0.00E+00	1.12E-02
HWD	kg	4.99E-02	4.87E-02	6.97E-04	1.32E-05	0.00E+00	4.98E-04
N-HWD	kg	1.11E+02	4.69E+01	8.94E+00	4.76E+00	0.00E+00	5.03E+01
RWD	kg	1.65E-02	1.64E-02	3.15E-05	5.05E-07	0.00E+00	2.87E-05
CfR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MfR	kg	5.91E+01	1.50E+01	0.00E+00	2.18E+00	0.00E+00	4.18E+01
MfER	kg	3.73E+00	1.67E+00	0.00E+00	2.04E+00	0.00E+00	1.71E-02
EN	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PM	disease inc.	1.12E-05	9.88E-06	7.31E-07	1.51E-08	0.00E+00	6.01E-07
IRP	kBq U-235 eq	1.75E+01	1.72E+01	1.28E-01	2.04E-03	0.00E+00	1.17E-01
ETP-fw	CTUe	3.33E+03	3.28E+03	2.49E+01	8.26E-01	0.00E+00	3.24E+01
HTP-c	CTUh	3.38E-06	3.30E-06	4.47E-08	1.16E-09	0.00E+00	3.14E-08
HTP-nc	CTUh	3.21E-06	3.09E-06	6.86E-08	5.52E-09	0.00E+00	4.80E-08
SQP	Pt	2.11E+03	1.93E+03	1.05E+02	2.55E+00	0.00E+00	7.12E+01

Table 7: Impact indicators for CDC 440 NXT Cabinet

Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	12/16
STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE



Impact category	Unit	CDC 440 NXT
Biogenic Carbon content of the product	kg	0
Biogenic Carbon content of the associated packaging	kg	3.61E+00

Table 8: Inventory flow other indicators for CDC 440 NXT Cabinets

Environmental impact indicators

GWP-total	Global Warming Potential total (Climate change)
GWP-fossil	Global Warming Potential fossil
GWP-biogenic	Global Warming Potential biogenic
GWP-luluc	Global Warming Potential land use and land use change
ODP	Depletion potential of the stratospheric ozone layer
AP	Acidification potential
EP-freshwater	Eutrophication potential - freshwater compartment
EP-marine	Eutrophication potential - fraction of nutrients reaching marine end compartment
EP-terrestrial	Eutrophication potential -Accumulated Exceedance
POCP	Formation potential of tropospheric ozone
ADP-m&m	Abiotic Depletion for non-fossil resources potential
ADP-fossil	Abiotic Depletion for fossil resources potential, WDP
WDP	Water deprivation potential.

Resource use indicators

PERE	Use of renewable primary energy excluding renewable primary energy resources used as raw material
PERM	Use of renewable primary energy resources used as raw material
PERT	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)
PENRE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw material
PENRM	Use of non-renewable primary energy resources used as raw material
PENRT	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)

Secondary materials, water and energy resources

SM	Use of secondary materials
RSF	Use of renewable secondary fuels
NRSF	Use of non-renewable secondary fuels
FW	FW: Net use of fresh water

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE	
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	13/16	
© Copyright 202	© Copyright 2025 ABB. All rights reserved.						



Waste category indicators

HWDHazardous waste disposedN-HWDNon-hazardous waste disposedRWDRadioactive waste disposed

Output flow indicators

MfR Materials for recycling
MfER Materials for energy recovery

Other indicators

PM	Emissions of Fine particles
IRP	Ionizing radiation, human health
ETP-fw	Ecotoxicity, freshwater
HTP-c	Human toxicity, carcinogenic effects
HTP-nc	Human toxicity, non-carcinogenic effects
SQP	Impact related to Land use / soil quality

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	14/16
© Copyright 2025 ABB. All rights reserved.						





Additional environmental information

According to the waste treatment scenario calculation in Simapro [7], based on the recycling rate in the technical report IEC/TR 62635 Edition 1.0 [9] Table D.6, the following recyclability potentials were calculated. The recyclability potential is calculated based on the product weight (excluding packaging).

Recyclability potential CDC 440 NXT 94.3%

Table 9: Recyclability potential of CDC 440 NXT

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	15/16
© Copyright 2025 ABB. All rights reserved.						



References

- [1] PCR "PEP-PCR-ed4-EN-2021_09_06" Product Category Rules for Electrical, Electronic and HVAC-R Products (published: 6th September 2021)
- [2] PSR "PSR-0005-ed3.1-EN-2023 12 08" SPECIFIC RULES FOR Electrical switchgear and control gear Solutions
- [3] EN 50693:2019 Product category rules for life cycle assessments of electronic and electrical products and systems
- [4] ISO 14040:2006 Environmental management -Life cycle assessment Principles and framework
- [5] ISO 14044:2006 Environmental management Life cycle assessment Requirements and guidelines
- [6] Ecoinvent v3.10 (2024). ecoinvent database version 3.10 (https://ecoinvent.org/)
- [7] SimaPro Software version 9.6.0.1 PRé Sustainability
- [8] UNI EN 15804:2019+A2: Sustainability of constructions Environmental product declarations (September 2019).
- [9] IEC/TR 62635 Guidelines for end-of-life information provided by manufacturers and recyclers and for recyclability rate calculation of electrical and electronic equipment -Edition 1.0 2012-10

STATUS	SECURITY LEVEL	PEP ECOPASSPORT REG. NUMBER	DOCUMENT ID.	REV.	LANG.	PAGE	
Approved	Public	ABBG-00375-V01.01-EN	2CGD001798	A.003	en	16/16	
© Copyright 2025 ABB. All rights reserved.							