

ABB F200 RESIDUAL CURRENT CIRCUIT BREAKERS

Product Environmental Profile

Environmental Product Declaration



Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations"

ORGANIZATION		CONTACT INFORMATION			
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ABB Purpose & Embedding Sustainability

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.



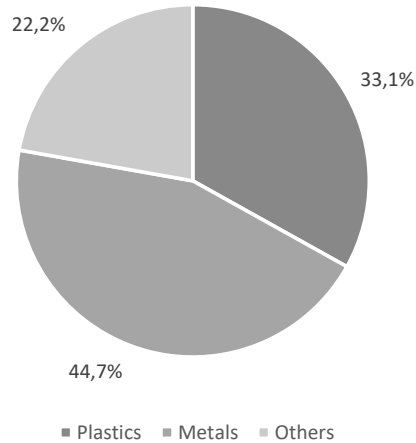
General Information

Reference product	ABB F200 4 poles 30 mA 25-63A (63A)
Description of the product	The RCCBs F200 series assures protection to people and installations against fault current to earth. A large offer for standard instantaneous and selective AC and A types is completed with some configurations for special applications.
Functional unit	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current rated current in continuous operation (I_{th}), including any conditions specified for overload in operation characterized by the current overcurrent (I_e), for the operating voltage (U_e) and a current for short-circuit rated short time withstand current (I_{cw}) for a specified time.
Other products covered	ABB F200 4P 30mA 25-63A (40 A) ABB F200 2P 30mA 25-63A (25 A) ABB F200 2P 30mA 25-63A (40 A)

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Constituent materials



Total weight of Reference product

481 g

Plastics as % of weight		Metals as % of weight		Others as % of weight	
Name and CAS number	Weight-%	Name and CAS number	Weight-%	Name and CAS number	Weight-%
Plastics	33,1	Metals	44,7	Others	22,2

Products of this range are designed in conformity with the requirements of the RoHS directive (European directive 2011/65/EU), considering exemptions if applicable. Details of RoHS and REACH substances information are available on ABB Website. Products of this range are also in scope of Directive 2012/19/EU on waste electrical and electronic equipment (WEEE).

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Additional Environmental Information

Manufacturing	Manufacturing takes place in ABB plant in Santa Palomba (RM), Italy. The site is ISO14001 certified.
Distribution	Distribution scenario has been modelled considering ABB average market for the product. EQ meters delivery scenario includes 2409 km by ship and 2953 km by truck
Installation	As installation is performed manually, no environmental burdens are associated to this phase besides end of life of product packaging
Use	Use phase scenario has been modelled based on PCR v3 requirements and scenarios. Based on PCR parameters, total energy demand for the use phase is equal to 231 kWh.
End of life	End of life scenario has been modelled based on PCR v3 requirements and scenarios. 1000 km from waste generation to waste treatment facility are considered
Software and database used	Simapro v 9.3.0.2 - Ecoinvent v 3.8 + ELCD
Standards	"PCR-ed3-EN-2015 04 02" (PEP Association, 2015) "PSR-0005-ed2-EN-2016 03 29" (PEP Association, 2016b)



Environmental impacts

Reference lifetime	20 years
Product category	Electrical switchgear and control gear Solutions
Installation elements	N/A
Use scenario	Load time: 50% of rated current in continuous operation (In). Use time rate: 30% of reference lifetime (RLT).
Geographical representativeness	World
Technological representativeness	RCCBs F200 offer protection from indirect contact and they ensure additional protection against direct contact. They are suitable in many fields from residential to commercial.
Energy model used	
Manufacturing	Italian grid mix, medium voltage
Installation	N/A
Use	European grid mix, medium voltage
End of life	N/A

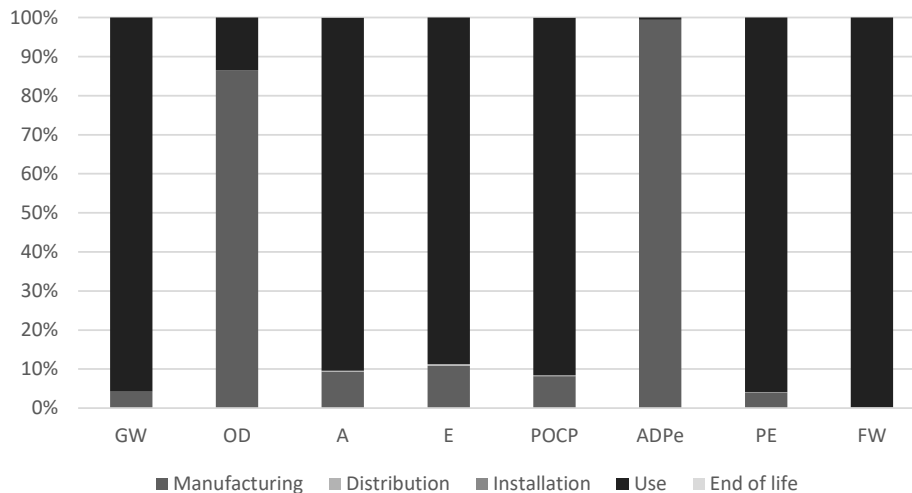
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Compulsory Indicators

Impact indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Global warming (GW)	kg CO ₂ eq.	1,183E+02	4,868E+00	9,476E-02	<0,01%	1,133E+02	<0,01%
Ozone depletion (OD)	kg CFC-11 eq.	5,486E-05	4,748E-05	<0,01%	<0,01%	7,382E-06	<0,01%
Acidification of soil and water (A)	kg SO ₂ eq.	5,227E-01	4,897E-02	9,757E-04	<0,01%	4,727E-01	5,573E-05
Eutrophication (E)	kg (PO ₄) ³ eq.	3,217E-02	3,488E-03	1,418E-04	<0,01%	2,854E-02	<0,01%
Photochemical ozone creation (POCP)	kg C ₂ H ₄ eq.	2,835E-02	2,317E-03	5,610E-05	<0,01%	2,597E-02	3,004E-06
Depletion of abiotic resources – elements (ADPe)	kg Sb eq.	1,499E-03	1,490E-03	<0,01%	<0,01%	8,102E-06	<0,01%

Resource use indicators	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life
Total use of primary energy (PE)	MJ	1,334E+03	5,379E+01	1,301E+00	<0,01%	1,279E+03	<0,01%
Net freshwater use (FW)	m ³	5,394E+01	1,083E-01	<0,01%	<0,01%	5,384E+01	<0,01%

% Environmental Impact per Life Cycle Stage of Reference Product



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2 identified parameters allow to identify a linear dependency between impacts and product features. Therefore, linear interpolation has been performed to estimate the relations among products in the same family.

Overview of representative products and parameters

Product family	Reference product for which PEP results are reported	Parameter – All life cycle stages besides use phase	Parameter – Use phase
F200 switches	F200 4P 30mA 25-63A (63 A)	Total product mass [g]	Nominal power [W]

An overview of selected models and reference nominal parameters is reported below:

List of reference parameters for interpolation

SWITCHES FAMILY	total mass [g]	power [W]
1. F200 4P 30mA 25-63A (40 A)	434	3,2
2. F200 4P 30mA 25-63A (63 A)	420	4,4
3. F200 2P 30mA 25-63A (25 A)	268	1,0
4. F200 2P 30mA 25-63A (40 A)	269	2,4

Next sections contain information and details about how the extrapolation rules have been computed for each product family. These extrapolation rules allow to pass from impacts reported in the PEP associated to a reference product to impacts associated to different products in the same family, providing the reference parameter.

For both investigated category the equation linking impacts among products is defined as

$$y = ax + b$$

Where:

y is the generic environmental impact category

x is the nominal value of reference parameter

a and b are coefficients computed starting from the assumption about the existence of linear dependency between impacts and product features

Next section contains all the details and the parameters to extrapolate results for other products in the same homogeneous family, and an example of extrapolation.

Interpolation			F202 AC-25/0,03 (Total product mass 265g)	
MANUFACTURING STAGE $y = ax + b$	a	b	Formula	Result
Global warming	0,0125	- 1,2321	$a * \text{total mass (x)} + b$	2,0928119
Ozone depletion	0,0000	- 0,0001	$a * \text{total mass (x)} + b$	0,0000054
Acidification	0,0002	- 0,0275	$a * \text{total mass (x)} + b$	0,0145768
Eutrophication	0,0000	- 0,0009	$a * \text{total mass (x)} + b$	0,0015112
Photochemical ozone formation	0,0000	- 0,0009	$a * \text{total mass (x)} + b$	0,0008564
Depletion of abiotic resources	0,0000	- 0,0011	$a * \text{total mass (x)} + b$	0,0003300
Total use of primary energy	0,0951	7,7302	$a * \text{total mass (x)} + b$	32,9359423
Net use of fresh water	0,0000	0,0881	$a * \text{total mass (x)} + b$	0,0994470

Interpolation			F202 AC-25/0,03 (Power 2)	
USE STAGE $y = ax + b$	a	b	Formula	Result
Global warming	25,7522	0,0030	$a * \text{Power (x)} + b$	51,5074751
Ozone depletion	0,0000	0,0000	$a * \text{Power (x)} + b$	0,0000034
Acidification	0,1074	0,0000	$a * \text{Power (x)} + b$	0,2148525
Eutrophication	0,0065	0,0000	$a * \text{Power (x)} + b$	0,0129724
Photochemical ozone formation	0,0059	0,0000	$a * \text{Power (x)} + b$	0,0118057
Depletion of abiotic resources	0,0000	0,0000	$a * \text{Power (x)} + b$	0,0000037
Total use of primary energy	290,5619	0,0344	$a * \text{Power (x)} + b$	581,1582111
Net use of fresh water	12,2337	0,0014	$a * \text{Power (x)} + b$	24,4688457

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ABB FH200 2P				ABB FH200 4P			
FH202 S AC-25/0.03	2CSF202024R1250	FH202 AC-25/0.03	2CSF202006R1250	FH204 AC-25/0.03	2CSF204006R1250	FH204 AC-63/0.03	2CSF204006R1630
FH202 S AC-40/0.03	2CSF202024R1400	FH202 AC-40/0.03	2CSF202006R1400	FH204 AC-40/0.03	2CSF204006R1400	FH204 A-63/0.03 HAF	2CSF204120R1630
FH202 S AC-63/0.03	2CSF202024R1630	FH202 AC-25/0.3	2CSF202003R3250	FH204 AC-63/0.3-L	2CSF204026R3630	FH204 A-40/0.3 HAF	2CSF204120R3400
FH202 A-40/0.03 U CEBEC	2CSF202122U1400	FH202 AC-63/0.03	2CSF202006R1630	FH204 AC-63/0.03	2CSF204006R1630	FH204 A-40/0.03 U CEBEC	2CSF204122U1400
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ABB F200 2P							
F202 A S -40/0,1 240V	2CSF202247R2400	F202 A-40/0,03	2CSF202101R1400	F202 AC S-63/0,5	2CSF202901R4630	F202 AC-63/0,03	2CSF202017R1630
F202 A S -40/0,1 240V	2CSF202296R2400	F202 A-40/0,03	2CSF202101U1400	F202 AC S-63/1	2CSF202901R5630	F202 AC-63/0,03 AP	2CSF202301R1630
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F202 A-25/0,01	2CSF202101R0250	F202 A-63/0,1 G	2CSF202419R2630	F202 AC-40/0,1	2CSF202005R2400		
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F202 A-25/0,03 110V	2CSF202199R1250	F202 A-63/0,5 16,7	2CSF202196R4630	F202 AC-40/0,3	2CSF202005U3400		
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F202 A-25/0,5	2CSF202101R4250	F202 AC S-63/0,3	2CSF202901R3630	F202 AC-63/0,03	2CSF202005U1630		

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ABB F200 4P					
F204 A S -40/0,1 415V	2CSF204247R2400	F204 A -40/0,5 415V	2CSF204147R4400	F204 AC -40/0,1	2CSF204011R2400
F204 A S -40/0,1 415V	2CSF204296R2400	F204 A -40/0,5 415V	2CSF204196R4400	F204 AC -40/0,1	2CSF204023R2400
F204 A S -40/1 415V	2CSF204247R5400	F204 A -63/0,03	2CSF204101R1630	F204 AC -40/0,1 G	2CSF204319R2400
F204 A S -40/1 415V	2CSF204296R5400	F204 A -63/0,03	2CSF204101U1630	F204 AC -40/0,1 IEC 415V	2CSF204047R2400
F204 A S -63/0,1 415V	2CSF204247R2630	F204 A -63/0,03	2CSF204121R1630	F204 AC -40/0,1 T	2CSF204519R2400
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F204 A S -40/0,5	2CSF204201R4400	F204 A -63/0,03 G	2CSF204419R1630	F204 AC -40/0,5	2CSF204023R4400
F204 A S -40/1	2CSF204201R5400	F204 A -63/0,03 T	2CSF204719R1630	F204 AC -63/0,03	2CSF20401R1630
F204 A S -63/0,1	2CSF204201R2630	F204 A -63/0,03 TG	2CSF204819R1630	F204 AC -63/0,03	2CSF204001U1630
F204 A S -63/0,1 T	2CSF204219R2630	F204 A -63/0,1	2CSF204101R2630	F204 AC -63/0,03	2CSF204005R1630
F204 A S -63/0,3	2CSF204201R3630	F204 A -63/0,1	2CSF204123R2630	F204 AC -63/0,03	2CSF204005U1630
F204 A S -63/0,3 T	2CSF204219R3630	F204 A -63/0,1 415V	2CSF204147R2630	F204 AC -63/0,03	2CSF204023R1630
F204 A S -63/0,5	2CSF204201R4630	F204 A -63/0,1 415V	2CSF204196R2630	F204 AC -63/0,03 AP-R	2CSF204301R1630
F204 A S -63/1	2CSF204201R5630	F204 A -63/0,1 G	2CSF204419R2630	F204 AC -63/0,03 G	2CSF204319R1630
F204 A -25/0,03	2CSF204101R1250	F204 A -63/0,1 T	2CSF204719R2630	F204 AC -63/0,03 IEC 415V	2CSF204047R1630
F204 A -25/0,03	2CSF204101U1250	F204 A -63/0,1 TG	2CSF204819R2630	F204 AC -63/0,03 T	2CSF204519R1630
F204 A -25/0,03	2CSF204121R1250	F204 A -63/0,3	2CSF204101R3630	F204 AC -63/0,03 TG	2CSF204619R1630
F204 A -25/0,03	2CSF204123R1250	F204 A -63/0,3	2CSF204121R3630	F204 AC -63/0,1	2CSF204001R2630
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F204 A -25/0,03 400HZ	2CSF204197R1250	F204 A -63/0,3 AP-R	2CSF204401R3630	F204 AC -63/0,1	2CSF204023R2630
F204 A -25/0,03 AP-R	2CSF204401R1250	F204 A -63/0,5	2CSF204101R4630	F204 AC -63/0,1 G	2CSF204319R2630
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F204 A -40/0,03 400HZ	2CSF204197R1400	F204 AC -25/0,1	2CSF204023R2250		
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F204 A -40/0,03 T	2CSF204719R1400	F204 AC -25/0,5	2CSF204005R4250		
F204 A -40/0,03 TG	2CSF204819R1400	F204 AC -25/0,5	2CSF204023R4250		
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F204 A -40/0,1	2CSF204123R2400	F204 AC -40/0,03	2CSF204001U1400		
F204 A -40/0,1 G	2CSF204419R2400	F204 AC -40/0,03	2CSF204005R1400		
F204 A -40/0,1 T	2CSF204719R2400	F204 AC -40/0,03	2CSF204005U1400		
F204 A -40/0,1 TG	2CSF204819R2400	F204 AC -40/0,03	2CSF204023R1400		
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F204 A -40/0,3	2CSF204121R3400	F204 AC -40/0,03 G	2CSF204319R1400		
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F204 A -40/0,5	2CSF204101R4400	F204 AC -40/0,1	2CSF204005R2400		
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Environmental Impact Indicator Glossary

Impact indicators	Description	Unit
Global warming (GW)	Indicator of potential global warming caused by emissions to air contributing to the greenhouse effect. Includes fossil and biogenic	kg CO ₂ eq.
Ozone depletion (OD)	Indicator of emissions to air that contribute to the destruction of the ozone layer	kg CFC-11 eq.
Acidification of soil and water (A)	Indicator of the potential acidification of soils and water caused by the release of certain gases to the atmosphere	kg SO ₂ eq.
Eutrophication (E)	Indicator of the contribution to eutrophication of water by the enrichment of the aquatic ecosystem with nutritional elements, e.g. industrial or domestic effluents, agriculture, etc.	kg (PO ₄) ³ eq.
Photochemical ozone creation (POCP)	Indicator of emissions of gases that affect the creation of photochemical ozone in the lower atmosphere (smog) because of the rays of the sun.	kg C ₂ H ₄ eq.
Depletion of abiotic resources – elements (ADPe)	Indicator of the depletion of natural non-fossil resources	kg Sb eq.

Resource use indicators	Description	Unit
Total use of primary energy (PE)	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) + Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ (lower heating value)

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Verifier accreditation number: VH40	Information and reference documents: www.pep-ecopassport.org
Date of issue: 09 September 2022	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2010	
Internal <input type="radio"/>	External <input checked="" type="radio"/>
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1: 2016 The elements of the present PEP cannot be compared with elements from another program	
Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations"	

STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
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