

# TYPE APPROVAL CERTIFICATE

Certificate no.:  
**TAE00001EW**  
Revision No:  
**5**

## This is to certify:

that the RCD - Residual Current Device

with type designation(s)  
**DS201, DS201 M, DS201 M 110V**

issued to

**ABB S.p.A.**  
Vittuone MI, Italy

is found to comply with

**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application:

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.**

Issued at Høvik on **2025-09-05**

for DNV

This Certificate is valid until **2030-09-04**.

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Thomas Hartmann**

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.  
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

## Product description

This type approval certificate covers both variants of the Residual Current Circuit Breakers with Overcurrent Protection (RCBO) of the DS20x family.

The two variants differ regarding electrical performance (See below table), location of the TEST-Button and switch position indicator.

Variant 1 : TEST-Button low right corner above the operator and switch position indicator top centre below the operator

Variant 2 : TEST-Button upper left corner above the operator and switch position indicator below the operator.

The two variants are distinguished in the ABB Product ID in 9<sup>th</sup> digit by the following nomenclature:

For DS201 and DS201 M: For DS201 M 110V:

4 - Variant 1  
9 – Variant 1  
8 - Variant 2  
8 – Variant 2

ABB Product ID 9<sup>th</sup> digit marked with a capital "Y"

2	C	S	R	x	x	x	x	Y	x	x	x	x	x	x
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1P+N -- Residual Current Circuit-Breaker with overcurrent protection.

Ratings		DS201	DS201 M	DS201 M 110V
Operating characteristics		AC, A, APR	AC, A, APR	A
Rated current $I_n$	A	1, 2, 4, 6, 10, 13, 16, 20, 25, 32, 40	4, 6, 10, 13, 16, 20, 25, 32, 40	6, 10, 13, 15, 16, 20, 25, 32, 40
Rated sensitivity $I_{\Delta n}$	mA	10/30/100/300	10/30/100/300	30
Variant 1:				
Rated residual breaking capacity $I_{\Delta m}$ for $1 \leq I_n \leq 40$	kA	6	6	6
Rated service breaking capacity $I_{cs} @ 230VAC$	kA	6	7,5	7,5
Rated short circuit capacity $I_{cn} @ 230VAC$ acc.to IEC/EN 61009	kA	6	10	10
Rated ultimate breaking capacity $I_{cu} @ 230VAC$	kA	10	10	10
Thermo-magnetic release characteristic		B, C, K	B, C	B, C
Variant 2:				
Rated residual breaking capacity $I_{\Delta m}$ for $1 \leq I_n \leq 25$	kA	6	6	6
Rated residual breaking capacity $I_{\Delta m}$ for $35 \leq I_n \leq 40$	kA	4,5	4,5	4,5
Rated service breaking capacity $I_{cs} @ 230VAC$	kA	7,5	11,2	11,2
Rated short circuit capacity $I_{cn} @ 230VAC$ acc.to IEC/EN 61009	kA	6	10	10
Rated ultimate breaking capacity $I_{cu} @ 230VAC$	kA	10	15	15
Thermo-magnetic release characteristic		B, C, K	B, C, K	B, C
-Rated voltage $U_e$	V	230-240	230-240	230-240
-Rated frequency	Hz	50...60	50...60	50...60
-Rated insulation voltage $U_i$	V	500	500	500
-Rated impulse withstand voltage $U_{imp}$	kV	4	4	4
Dielectric test voltage at ind. frequency for 1 min.	kV	2,5	2,5	2,5
Degree of protection housing/ terminals		IP4X/ IP2X	IP4X/ IP2X	IP4X/ IP2X

For installation inside switchboards, distribution boards and control gear enclosure.

Temperature class: B  
Humidity class: B  
Vibration class: A

## Type Approval documentation

Test report IMP 03AJ00011-00; 03AJ00012-00; 03AJ00013-00  
ABB Summary test scheme DS201/201M/ DS202C 2CE01200  
ABB SACE Test Report N°: 2CE00978; 2CE01200, CSI Test Report N°: 0029\ME\CM; PB20-0059945-01  
CB TEST CERTIFICATE N°: IT-14405; IT-14647; IT-14889; IT-16160; IT-16160/M1; IT-16161  
IMQ IECEE CB SCHEME certificates:  
IT-16160; IT-18356; IT-19730; IT-19730/M1; IT-19731; IT-19731/M1; IT-19731/M2; IT-21307; IT-21307/M1  
Updated reports as per Rev.5:  
CB TEST CERTIFICATE N°: IT-24151; IT-24152; IT-25815  
IMQ IECEE CB SCHEME certificates: PB24-0100802-01; PB23-0094441-01; PB23-0094460-01 (EMC)

## Tests carried out

IEC 61009-1(2010) +A1(2012)+A2(2013); IEC 61009-2-1 (1991); IEC 61009-2-2 (1991)  
DNV-CG-0339

## Marking of product

ABB – type designation - voltage – frequency – current – tripping current – operating characteristic

## Place of Manufacture:

ABB S.p.A.  
SANTA PALOMBA- 00134 (Roma), Italy  
Via Ardeatina 2491

## Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE