



TYPE APPROVAL CERTIFICATE

N. ELE311216CS



THIS is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

Description	Residual current unit (to be combined with circuit-breaker S200 Series)
Type	DDA200 110V
Applicant	ABB S.p.A. Via Vittor Pisani, 16 20124 Milano Italy
Manufacturers	ABB S.p.A. – ABB Sace Division Viale dell'industria, 18 20010 Vittuone (MI) Italy
Reference standards	IEC 60947-1:2007+A1:2011 + A2:2014 IEC60947-2:2006+A1:2009+A2:2013 RINA Rules for Classification of Ships Part C_ Machinery System and Fire protection Ch.3, Sec.6, Table 1

Issued in Genova on 03 July, 2017

This certificate is valid until 03 July, 2022

RINA Services S.p.A.

Valerio Bonanni



TYPE APPROVAL CERTIFICATE

N. ELE311216CS



DDA 200 Series residual current RCD-blocks 110 V version - A type
(to be assembled with compatible circuit-breaker S200 Series)

DDA200 110 V is a particular RCD-block with voltage range for test button $U_t = 110-254$ V.
RCD-blocks work for naval applications where the IT system is typically used and the voltage between the phase and the neutral conductor is 115 - 125 V.

Rated operated Voltage $U_e = 400$ V; Rated insulation Voltage $U_i = 400$ V
Rated impulse withstand voltage: $U_{imp} = 4$ kV
Utilization Category: A
Suitable for insulation
For use on IT system

Type reference	ABB code	Numer of poles	Rated current In (AC)	Rated Residual current
DDA 202	2CSB202199R1250	2P	max 25A	I Δn 30 mA - A type
	2CSB202199R1400	2P	max 40A	
	2CSB202199R1630	2P	max 63A	
DDA 203	2CSB203199R1400	3P	max 40A	
	2CSB203199R1630	3P	max 63A	
DDA 204	2CSB204199R1630	4P	max 63 A	

Voltage range of Test button U_{test} min. 110 to 254V

Description of the ratings of the circuit- breakers S200 designed to be combined with r.c.unit

Poles	Rated current	Un	Icu	Ics	Curve
1P+N	6-10-16-20-25-32-40-50-63	133	20	15	B - C
1P+N	6-10-16-20-25-32-40-50-63	230	10	7,5	
2P	6-10-16-20-25-32-40-50-63	230	20	15	
2P	6-10-16-20-25-32-40-50-63	400	10	7,5	
3P	16-20-25-32-40-50-63	230	20	15	
3P	16-20-25-32-40-50-63	400	10	7,5	
4P	10-16-20-25-32-40-50-63	230	20	15	
4P	10-16-20-25-32-40-50-63	400	10	7,5	

Test reports / Certificates:

IMQ doc. n. PB16S0614231-01-00 to PB16S0614231-01-33 (August 2016)
IEC 60947-2:2006+A1:2009 + A2: 2013

IMQ doc. n. PB16S0614274-01/1 to PB16S0614274-01/2 (2016/05/10)
IEC 60947-2:2006+A1:2009 +A2:2013 annexes B, J

IMQ CB Test Certificate n. IT-17111/A1 (2017/01/23)

ABB/RINA doc. n 2CE02809-01 (Climatics and vibration)

ABB technical specification:

Catalogue-2017 _n. 2CHC 000 001 C0201