

**TYPE APPROVAL CERTIFICATE**

Certificate No:  
**TAE00000DD**  
Revision No:  
**1**

**This is to certify:****That the Disconnection Switch**

with type designation(s)  
**OT630 - 4000**

Issued to

**ABB Oy, Protection and Connection  
VAASA, Finland**

is found to comply with  
**DNV GL rules for classification – Ships, offshore units, and high speed and light craft  
IEC 60947**

**Application :**

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

This Certificate is valid until **2017-12-31**.

Issued at **Høvik** on **2017-01-22**

DNV GL local station: **Turku**

Approval Engineer: **Nicolay Horn**



for **DNV GL**

Digitally Signed By: Andreas Kristoffersen  
Location: DNV GL Høvik, Norway  
Signing Date: 2017-01-24

**Andreas Kristoffersen  
Head of Section**

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.

Job Id: **262.1-006128-3**  
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## Product description

Switch-disconnector OT600 -1600,

Technical data:

		OT630	OT800	OT1000
				E
Rated insulation voltage $U_i$ (V)		1000	1000	1000
Rated impulse voltage $U_{imp}$ (kV)		12	12	12
Rated operation current AC21A (A)	≤ 500V	630	800	1000
	690V	630	800	1000
	1000V	630	800	1000
Rated operation current AC22A (A)	≤ 500V	630	800	1000
	690V	630	800	1000
	1000V	630	800	-
Rated operation current AC23A (A)	≤ 500V	630	800	1000
	690V	630	800	1000
	1000V	400	400	-
Rated breaking capacity AC23A (A)	≤ 500V	5040	6400	10000
	690V	5040	6400	10000
Rated short circuit withstand current $I_{cw}$ (kA)	690 / 1 sec.	20	20	50
Rated short circuit making capacity $I_{cm}$ (kA)	690V (3pole / 4 pole, T1000)	80	80	110/92

		OT1250	OT1600	OT2000
		E	E	
Rated insulation voltage $U_i$ (V)		1000	1000	1000
Rated impulse voltage $U_{imp}$ (kV)		12	12	12
Rated operation current AC21A / 21B* (A)	≤ 500V	1250	1000	-
	690V	1250	1600	2000*
	1000V	1250	1600	2000*
Rated operation current AC22A / 22B* (A)	≤ 500V	1250	1600	-
	690V	1000	1600	2000*
	1000V	-	-	2000*
Rated operation current AC23A (A)	≤ 500V	1250	1250	-
	690V	1250	1250	-
	1000V	-	-	
Rated breaking capacity AC23A (A)	≤ 500V	10000	10000	-
	690V	10000	10000	-
Rated short circuit withstand current $I_{cw}$ (kA)	690 / 1 sec.	50	50	35 (2P) / 55 (3-4P)
Rated short circuit making capacity $I_{cm}$ (kA)	690V (3pole / 4 pole)	110/92	110/92	

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		OT2500	OT3200	OT4000	OT4000_W8
		E	E		
Rated insulation voltage $U_i$ (V)		1000	1000	1000	1000
Rated impulse voltage $U_{imp}$ (kV)		12	12	12	12
Rated operation current AC21B (A)	$\leq 500V$	-	3200	3800	4000
	690V	2500	-	-	-
Rated operation current AC22B (A)	$\leq 500V$	-	3200	3800	4000
	690V	2500	-	-	-
Rated short circuit withstand current $I_{cw}$ (kA)	690 / 1 sec.	65	80	80	65
Rated short circuit making capacity $I_{cm}$ (kA)	690V (3pole / 4 pole)	176	176	220	176

## Application/Limitation

Ingress protection IP20. To be installed inside switchboard / enclosures.  
Installation procedures according to the manufacturer's instructions to be followed.

## Type Approval documentation

### Technical info:

ABB Oy catalogue "Low Voltage Products – Switch-disconnectors OT and OETL (parts)

### Test reports:

SGS test reports nos. 249697-1/2 dated 2008-06-18, 260370-1 dated 2010-08-19, 256920-1 dated 2011-05-24, 282077-1 dated 2016-01-04 and 282077-2 dated 2016-05-25.

TRC test reports nos. TA2014-53 dated 2015-01-14 and TA2016-33 dated 2016-10-06.

ABB test reports nos. L15-001 dated 2015-01-07 and L16-006 dated 2016-11-11.

Fimco test reports nos. 240964-1 dated 2006-02-01, 247299-1 / 3 / 5 dated 2007-06-08, TRC test report noTA2008-93 dated 2008-12-19, and ABB test report no. L09-011 dated 2009-05-04. SGS test reports no. 260548-1 dated 2010-08-18, 256919-1 dated 2011-05-24, 266429-3 dated 2012-01-25 & 2012-03-14, 254109-1 dated 2009-08-10 & 256917-1 dated 2011-05-11.

## Tests carried out

Type tests in accordance with IEC 60947-3. Environmental tests in accordance with DNV Sfc 2.4.

## Marking of product

ABB Oy – Disconnecting switch – Type designation

## 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 Type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at 2 and 3,5 year.

END OF CERTIFICATE