



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAE0001AN**  
Revision No:  
**4**

## This is to certify:

### That the Disconnection Switch

with type designation(s)  
OT 16\_C .... OT 2500\_C

Issued to

**ABB Oy, Smart Power**  
VAASA, Finland

is found to comply with

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

## Application :

**Products approved by this certificate are accepted for installation on all vessels classed by DNV.**

Issued at **Høvik** on **2023-06-21**

This Certificate is valid until **2026-11-15**.

DNV local unit: **Finland CMC**

Approval Engineer: **Nicolay Horn**



for DNV

Digitally Signed By: Elter, Frederik Tore  
Location: DNV Høvik, Norway

**Frederik Tore Elter**  
**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.

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 300,000 USD.



## Product description

Switch disconnectors for installation inside switchboards / enclosures onboard ships and mobile offshore units.

Type OT16\_C – OT2500\_C as specified in the tables below.

Technical data:

Protection class:	IP20
Operational voltage, U <sub>e</sub>	690 V (415 V: OT2000_C-2500_C)
Insulation voltage, U <sub>i</sub>	1000 V (690 V: OT16F_C – OT125F_C)
Rated impulse withstand voltage, U <sub>imp</sub>	12 kV (8 kV: OT16F_C – OT125F_C)
Rated frequency:	50 - 60 Hz

	OT16F_C	OT25F_C	OT40F_C
Rated thermal current I <sub>th</sub>	25 A	32 A	40 A
Rated operational current AC-21A	16 A	25 A	40 A
Rated operational current AC-22A	16 A	25 A	40 A
Rated operational current AC-23A	500 V: 16 A 690 V: 10 A	500 V: 20 A 690 V: 11 A	500 V: 23 A 690 V: 12 A
Rated operational current AC-31B	-	-	-
Rated operational current AC-33B	-	-	-
Rated short time withstand current I <sub>cw</sub> , 690 V 1 s.	0.5 kA	0.5 kA	0.5 kA
Rated short time making capacity I <sub>cm</sub>	0.7 kA; 690V	0.7 kA; 690V	0.7 kA; 690V

OT63F_C	OT80F_C	OT100F_C	OT125F_C	OT160_C	OT200_C	OT200U_C
63 A	80 A	100 A	125 A	160 A	200 A	250 A
63 A	80 A	100 A	125 A	160 A	200 A	250 A
63 A	80 A	100 A	125 A	160 A	200 A	250 A
500 V: 45 A 690 V: 20 A	500 V: 58 A 690 V: 20 A	500 V: 60 A 690 V: 40 A	500 V: 70 A 690 V: 50 A	160 A	200 A	250 A
-	-	-	-	160 A	200 A	250 A
-	-	-	-	160 A	200 A	250 A
1.5 kA	1.5 kA	2.5 kA	2.5 kA	8 kA	8 kA	8 kA
2.1 kA; 690V	2.1 kA; 690V	3.6 kA; 690V	3.6 kA; 690V	30kA; 1000V	30kA; 1000V	30kA; 1000V

OT250_C	OT315_C	OT400E/U_C	OT600U_C	OT630_C	OT800_C	OT800U_C
250 A	315 A	400 A	800 A	630 A	800 A	1600 A
250 A	315 A	400 A	800 A	630 A	800 A	1600 A
250 A	315 A	400 A	800 A	630 A	800 A	1600 A
250 A	315 A	400 A	800 A	630 A	800 A	1250 A
250 A	315 A	400 A	720 A	650 A	720 A	1600 A
250 A	315 A	400 A	650 A	650 A	650 A	1000 A
8 kA	15 kA	15 kA	20 kA	20 kA	20 kA	50 kA
30kA; 1000V	65kA; 690V	80kA; 690V	80kA; 1000V	80kA; 1000V	80kA; 1000V	92kA; 690V

OT1000_C	OT1200U_C	OT1250_C	OT1600_C	OT2000_C	OT2500_C
1000 A	1600 A	1250 A	1600 A	2000 A	2500 A
1000 A	1600 A	1250 A	1600 A	2000 A *)	2500 A *)
1000 A	1600 A	1250 A	1600 A	-	-
1000 A	1250 A	1250 A	1250 A	-	-
1000 A	1600 A	1250 A	1600 A	2000 A	2000 A
1000 A	1000 A	1000 A	1000 A	-	-
50 kA	50 kA	50 kA	50 kA	55 kA	55 kA
92kA; 690V	92kA; 690V	92kA; 690V	92kA; 690V	110kA; 690V	110kA; 690V

## Application/Limitation

Switch-disconnectors for control and isolation for installation onboard ships and mobile offshore units

## Type Approval documentation

### Technical info:

Switches Switch-disconnectors OT, catalogue from ABB (parts).

### Test reports:

(OT16 -OT125): Test report nos 251544-1, 2 & 3 dated 2006-08-26.

(OT160-OT2500): See approval letterMCANO381/BODAK/262.1-023145-J-4

## Tests carried out

Type tests in accordance to IEC 60947-3 / 2008 and IEC 60947-6 / 2005

Environmental tests (Vibration, dry heat and damp heat in accordance with DNVGL CG 0339 and shock/vibrations in accordance with IEC60068-2-27 and IEC60068-2-6).

## Marking of product

ABB Oy - Type designation - Rated voltage - Rated current

## 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.

Assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE