DNV·GL

Certificate No:
TAE000013F

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Disconnection Switch

with type designation(s)
OS 200 and OS 250

Issued to
ABB Oy, Protection and Connection
VAASA, Finland

is found to comply with
DNV GL rules for classification – Ships and offshore units

Application :

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

This Certificate is valid until **2020-12-31**.

Issued at **Høvik** on **2016-06-17**

for **DNV GL**

DNV GL local station: **Turku**

Approval Engineer: **Nicolay Horn**

Marit Laumann
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.

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Product description

Switch disconnectors Type OS 200 & OS 250 as specified in the tables below.

Technical data:

Protection class:	IP20
Operational voltage, U_e	230 - 690 V
Insulation voltage, U_i	1000 V
Rated impulse withstand voltage, Uimp	12 kV
Rated frequency:	50 - 60 Hz

	OS 200	OS 250
Rated thermal current Ith	200	250
Rated operational current AC-21A	200	250
Rated operational current AC-22A	200	250
Rated operational current AC-23A	200	250
Rated breaking capacity AC-23	1600	2000
Rated short time withstand current Icw, 690 V 1 s.	8	8
Rated short time making capacity Icm	14	14

Application/Limitation

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

Type Approval documentation

Tests carried out

Type tests in accordance to IEC 60947-3 / 2008

Environmental tests (Vibration, dry heat and damp heat in accordance with DNV CN 2.4 and shock in accordance with IEC60068-2-27).

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 is 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 Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and 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 least every second year.

END OF CERTIFICATE