DNV·GL

Certificate No:
TAE00000DE

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fused Switch

with type designation(s)
OS200 - 400LR

Issued to
ABB Oy, Breakers and Switches
VAASA, Finland

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards
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 **2015-09-21**

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

Fused switch-disconnector OS200 -400,

Technical data:

		OS200	OS250	OS315	OS400
Rated insulation voltage Ui (V)		1000	1000	1000	1000
Rated impulse voltage Uimp (kV)		12	12	12	12
Rated operation current AC21A (A)	≤ 500V	200	250	315	400
	690V	200	250	315	400
Rated operation current AC22A (A)	≤ 500V	200	250	315	400
	690V	200	250	315	400
Rated operation current AC23A (A)	≤ 500V	200	250	315	400
	690V	200	250	315	400
Rated breaking capacity AC23A (A)	≤ 500V	1600	2000	3200	3200
	690V	1600	2000	3200	3200
Rated short circuit withstand current Icw (kA)	690 /1 sec.	8	8	14	14
Rated short circuit making capacity Icm (kA)	690V	-	-	-	-

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

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 is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the survey 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.

Survey to be performed at least every second year.

Job Id: **262.1-006128-2**
Certificate No: **TAE00000DE**

END OF CERTIFICATE