



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE0000DE
Revision No:
2

This is to certify:

That the Fused Switch

with type designation(s)
OS200 - 400

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
IEC 60947

Application :

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

Issued at **Høvik** on **2023-05-09**

This Certificate is valid until **2027-12-31**.

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

Fused switch-disconnector OS200 - 400,

Technical data:

		OS200	OS250	OS315	OS400
Rated insulation voltage U_i (V)		1000	1000	1000	1000
Rated impulse voltage U_{imp} (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 I_{cw} (kA)	690 /1 sec.	8	8	14	14
Rated short circuit making capacity I_{cm} (kA)	690V	-	-	-	-

Application/Limitation

Ingress protection IP20. To be installed inside switchboard / enclosures.

Installation procedures according to the manufacturer's instructions to be followed.

Environmental classes:

Temperature:	D
Humidity:	B
Vibration	A
EMC:	N/A

Type Approval documentation

Technical info:

ABB Oy catalogue "Low Voltage Products – Switch fuse for plug, back, side and top connections. (parts)

Test reports:

Fimco test reports nos. 248247 & 248248-1 dated 2008-02-15, TRC test report noTA2008-93 dated 2008-12-19, and ABB test report no. L09-011 dated2009-05-04.

Tests carried out

Type tests in accordance with IEC 60947-3. Environmental tests in accordance with DNV-CG-0339.

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 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 2, 3.5 year and at renewal.

END OF CERTIFICATE