



# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

**CERTIFICATE NO. E-5270**

This Certificate consists of 3 pages

*This is to certify that the*

**Fuse monitor**

*with type designation(s)*

**OFM\_**

*Manufactured by*

**ABB CONTROL OY**

**Vaasa, Finland**

*is found to comply with*

Det Norske Veritas' Rules for Classification of Ships and Mobile Offshore Units

*Application*

Fuse monitoring system for installation inside switchboards/enclosures onboard ships and mobile offshore units.

*Place and date*

Høvik, 2000-11-08

for DET NORSKE VERITAS AS

Henning B. Karlsen  
*Head of Section*



*Local Office*  
DNV Helsinki

*This Certificate is valid until*

2004-12-31

Per Ivar Halleland  
*Surveyor*

**Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.**

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: E-5270  
File No.: 825.11

## Product description

Fuse monitor for 3-phase circuits.

Rated impulse withstand voltage,  $U_{imp}$  9.8 kV (Phase to phase)  
14.8 kV (Supply to load)

Degree of protection: IP 20

Type / Type designation	Rated voltage [V]	Rated frequency [Hz]
OFM 260	100 ... 260	50 / 60
OFM 690	380 ... 690	50 / 60

## Application/Limitation

Temperature class: C

Vibration class: A

## Type Approval documentation

The approval is based on the following documentation:

Fimko certificate no. FI/EMC 99001, dated 11.01.1999-10-01

Fimko report no. 204373-1, dated 08-12-1998

Fimko report no. 203677-1, dated 23-10-1998

Fimko report no. 203677-2, dated 16-10-1998

ABB report no. 9 AFX00-108, dated 2000-06-22

Technical brochure OFM 20 GB 98-10

## Tests carried out

Type tests according to IEC 947-1 and IEC 947-3.

EMC tests according to EN 50081-1 (1992) and EN 50082-2 (1995)

Vibration test, damp heat test, dry heat test, cold test.



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## Marking of product

Product marking: Strømberg or ABB, OFM and type designation.

## Certificate retention survey

The scope of the retention/renewal survey 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 renewal only.

END OF CERTIFICATE