

**MARINE DIVISION**

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**Certificate number:** 08811/C0 BV

**File number :** ACE 02/106/03

**Product code :** 26351

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

### ABB OY Low Voltage Products

Vaasa - FINLAND

*for the type of product*

### DISCONNECTORS (LOW VOLTAGE)

ABB and/or STRÖMBERG- Safety Switches and Enclosed Load Break Switches - Types: OTP & OTE.

**Regulations and standards :**

BV Rules for the Classification of Steel Ships.  
IEC 60947-1- IEC 60947-3- IEC 60529 -

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.*

**This certificate is valid until : 05 Jan 2014**

At Neuilly, on : 05 Jan 2009

**For BUREAU VERITAS,**  
*By order of the Secretary*

Approval office

Local office : BV HELSINKI  
Surveyor : T. Andersson

L. COURREGELONGUE



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

**PLASTIC ENCLOSED SAFETY SWITCHES and PLASTIC ENCLOSED LOAD BREAK SWITCHES**

Types: **OTP** and **OTE**.

Degree of protection: IP 65.

### 2. DOCUMENTS AND DRAWINGS :

- IEC 60947 Series.
- Document Esite OT2 GB 98-10.

### 3. TEST REPORTS :

- Test reports N° 9 AFX 98-3 Rev.1 and N° 9 AFX 98-239
- Tests have been carried out at ABB STRÖMBERG's in house Laboratory on 1998-04-30.

### 4. APPLICATION / LIMITATION :

4.1 - According to BV Rules for the Classification of Steel Ships.

### 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be manufactured, examined and tested by **ABB OY Low Voltage Products** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **ABB OY Low Voltage Products** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 **ABB OY Low Voltage Products** has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production sites :

**ABB OY Low Voltage Products**  
**Muottitie 2 A**  
**FI-65320 VAASA, FINLAND**

### 6. MARKING OF PRODUCT :

According to IEC 60947 specifications.

### 7. OTHERS :

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the Plastic enclosed safety or Load Break Switches at any time and that **ABB OY Low Voltage Products, Vaasa - Finland**, will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of use and general maintenance of the Equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate n° 08811/B0 BV issued on 07/05/2003 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*