



Marine & Offshore
Division

Certificate number: 08811/D0 BV

File number: ACE 02/106/03

Product code: 2635I

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

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

ABB Oy, Breakers and Switches

Vaasa - FINLAND

for the type of product

DISCONNECTORS (LOW VOLTAGE)

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

Requirements:

BV Rules for the Classification of Steel Ships.
IEC 60947-1 (2010), IEC 60947-3 (2008)

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 mentioned above.

This certificate will expire on: 08 Jan 2020

For BUREAU VERITAS,

At BV HELSINKI, on 08 Jan 2015,

Tommy Andersson



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 & Offshore Division available on the internet site www.veristar.com. 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 electronic version is available at: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=ohh2oqdlmf>

BV Mod. Ad.E 530 October 2014

This certificate consists of 2 page(s)

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.

IECEE:

- Tests reports N°247441-1/2/3, dated 30.Oct.2009.
- Tests report N°257441-1, dated 26.Oct.2009.
- Certificates N°FI5936, FI5933, dated 03.Nov.2009.
- Certificates N°FI5931, FI5932, FI5929, dated 02.Nov.2011.
- Certificate N°FI5945M1, dated 24.Oct.2011.

4. APPLICATION / LIMITATION :

According to BV Rules for the Classification of Steel Ships.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The above products are to be supplied by **ABB Oy, Breakers and Switches** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.
- 5.3 - **ABB Oy, Breakers and Switches** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

ABB Oy, Breakers and Switches
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, Breakers and Switches**, 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/C0 BV issued on 05.01.2009 by the Society.

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