



Marine & Offshore

Certificate number: 49522/A0 BV

File number: AP1

Product code: 2601D

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

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

ABB FRANCE

CHASSIEU CEDEX - FRANCE

for the type of product

TERMINAL BLOCKS (LOW VOLTAGE)

DBL series.

Requirements:

BUREAU VERITAS RULES for the Classification of Steel Ships.
BUREAU VERITAS RULES for the Classification of Offshore Units.
BUREAU VERITAS RULES for the Classification of Naval Ships.
BUREAU VERITAS RULES for the Classification of Yachts.

EC Code: 31.

IEC 60947-1 (2014) , IEC 60947-7-1 (2009).

This certificate is issued to attest that Bureau Veritas Marine & Offshore 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: 04 Aug 2022**For Bureau Veritas Marine & Offshore,**

At BV LYON, on 04 Aug 2017,

Yann Krempelwicz



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 Marine & Offshore. 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 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 Marine & Offshore 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 :

The **DBL series** are terminal blocks for Marine applications.

1.1 - Approval range:

Type	Rated voltage (V)	Max cross-section mm ²	Rated current (A)	Remarks
DBL80	1000V AC 1500V DC	16	80	Feed-through 7 connections
DBL125		35	125	Feed-through 8 connections
DBL160		70	160	Feed-through 8 connections
DBL175		70	175	Feed-through 12 connections
DBL250		120	250	Feed-through 12 connections
DBL400		185	400	Feed-through 12 connections

2. DOCUMENTS AND DRAWINGS :

Drawing ref. 1SNP200008-0100 dated 12 Dec 2014.

Drawing ref. 1SNP200000-0100 dated 04 Feb 2015.

Drawing ref. 1SNP200004-0100 dated 12 Dec 2014.

Drawing ref. 1SNP200010-0100 dated 12 Dec 2014.

Drawing ref. 1SNP200014-0100 dated 12 Dec 2014.

Drawing ref. 1SNP200018-0100 dated 12 Dec 2014.

Catalogue ref. 1SNC166009S0201, dated 29 Feb 2016.

3. TEST REPORTS :

IECEE CB Scheme:

- Certificate No. DK-51841-UL, dated 28 Jan 2016.

ABB France:

- Tests report ref. 20170241-2, dated 15 May 2017.

4. APPLICATION / LIMITATION :

4.1 - BUREAU VERITAS RULES for the Classification of Steel Ships.

4.2 - BUREAU VERITAS RULES for the Classification of Offshore Units.

4.3 - BUREAU VERITAS RULES for the Classification of Naval Ships.

4.4 - BUREAU VERITAS RULES for the Classification of Yachts.

4.5 - BUREAU VERITAS Environmental Category, **EC Code: 31.**

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The **DBL series** are to be supplied by **ABB France** in accordance with the type described in this certificate.

5.2 - This type of product is within the category DBV of Bureau Veritas Rule Note NR320.

6. MARKING OF PRODUCT :

6.1 - Trade name.

6.2 - Date of manufacture and serial number.

6.3 - Equipment type or model identification under which it was type-tested

7. OTHERS :

It is **ABB FRANCE** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***