



Marine & Offshore

Certificate number: 26221/B0 BV

File number: ACE2/162/3

Product code: 2635H

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
SCHNEIDER ELECTRIC INDUSTRIES SAS
 Grenoble Cedex 09 - FRANCE

for the type of product
DISCONNECTORS (LOW VOLTAGE)
 Type NS630bNA to NS1600NA

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships
 IEC 60947-3 (2015)

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: 20 Dec 2023

For Bureau Veritas Marine & Offshore,

At BV LYON, on 20 Dec 2018,

Florian Aulen



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 electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=ojbyjw7fw8>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

	NS 630bNA	NS 800NA	NS 1000NA	NS 1250NA	NS 1600NA
Number of Poles	3-4	3-4	3-4	3-4	3-4
Rated Insulation Voltage Ui (V)	800	800	800	800	800
Rated Operational Voltage Ue (V)	690	690	690	690	690
Rated Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Rated Operational Current Ie (A) / 690V	630	800	1000	1250	1600
Rated Operational Current Ie (A) / 500V	630	800	1000	1250	1600
Rated Operational Current Ie (A) / 440V	630	800	1000	1250	1600
Rated Operational Current Ie (A) / 415V	630	800	1000	1250	1600
Rated Operational Current Ie (A) / 240V	630	800	1000	1250	1600
Short-Circuit Making Capacity Icm (kA)	52	52	52	52	52

2. DOCUMENTS AND DRAWINGS:

- Catalogue Schneider Electric A-40-41
- Impact analyses IEC 60947-1 (Ed5.2 vs Ed5.1) and IEC 60947-3 (Ed3.2 vs Ed3.1)

3. TEST REPORTS:

3.1 - SOPEMEA test reports N°:

- EHL 06058 dated 09/06/2005
- EHL08636 dated 05/10/2006

3.2 - L2E Test Report N°:

- 201005206_001_v2 dated 23/08/2010
- 200903717_001 dated 11/12/2009
- 200903718_001 dated 02/07/2010
- 200903719_001 dated 11/12/2009
- 200902585_001 dated 07/07/2010
- F01 2006-850-00 dated 21/09/2007

3.3 - LCIE CB Scheme certificate N°:

- FR 652989 dated 02/12/2014

4. APPLICATION / LIMITATION:

- 4.1 - Approval also valid for ships to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.2 - According to BV Rules for the Classification of Steel Ships.
- 4.3 - The disconnectors are not to be used in photovoltaic applications.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The disconnectors are to be supplied by **Schneider Electric Industries SAS** 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 and as such does not require a BV product certificate.
- 5.3 - **Schneider Electric Industries SAS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
- 5.4 - For information, **Schneider Electric Industries SAS** has declared to Bureau Veritas the following production site(s):

SCHNEIDER ELECTRIC INDUSTRIALE ITALIA UNITA CASAVATORE

Corso Italia 113
80020 CASAVATORE - NA
ITALY

SCHNEIDER SHANGHAI POWER DISTRIBUTION ELEC. APP. CO, LTD

833 Kang Qiao Lu Pu Dong
201315 SHANGHAI
CHINA

6. MARKING OF PRODUCT:

According to IEC 60947 specifications.

7. OTHERS:

7.1 - It is **Schneider Electric Industries SAS**'s 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.

7.2 - This certificate supersedes the Type Approval Certificate No. 26221/A0 BV issued on 10 January 2012 by the Society.

*** END OF CERTIFICATE ***