



Marine & Offshore

Certificate number: 20220/C0 BV

File number: ACE 06/843/02

Product code: 2592I

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 Toshiba Inverter Europe S.A.S

Pacy-sur-Eure - FRANCE

for the type of product

FREQUENCY CONVERTERS (Power 50kW and over)

Altivar 71

Variable speed drive for asynchronous motors.

Requirements:

BV Rules for the Classification of Steel Ships.

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 is a renewal of certificate N° 20220/B1 BV expiring on 11/02/2018

This certificate will expire on: 11 Feb 2023

For Bureau Veritas Marine & Offshore,

At BV SAINT QUENTIN-EN-YVELINES, on 30 Nov 2017,

Antoine PERRIN



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 Altivar 71 drive is a frequency inverter for 3-phase asynchronous motors and is dedicated to constant torque applications.

1.1 - ATV71H 380-480V

kW	HP	Reference
110	150	ATV71HC11N4
132	200	ATV71HC13N4
160	250	ATV71HC16N4
200	300	ATV71HC20N4
220	350	ATV71HC25N4
250	400	ATV71HC25N4
280	450	ATV71HC28N4
315	500	ATV71HC31N4
355	550	ATV71HC40N4
400	600	ATV71HC40N4
500	700	ATV71HC50N4

1.2 - ATV71H 500-690V

500V kW	575V HP	690V kW	Reference
90	125	110	ATV71HC11Y
110	150	132	ATV71HC13Y
132	-	160	ATV71HC16Y
160	200	200	ATV71HC20Y
200	250	250	ATV71HC25Y
250	350	315	ATV71HC31Y
315	450	400	ATV71HC40Y
400	550	500	ATV71HC50Y
500	700	630	ATV71HC63Y

2. DOCUMENTS AND DRAWINGS:

Catalogue ATV71, referenced DIA2ED2050104 rev. A02, dated 03/2006.

User Manual ATV71, referenced W81755543 01 16, rev. A06, dated 05/2007.

Installation Manual / Outline Drawings ATV71, referenced W91754251 rev. A05, dated 05/2007.

3. TEST REPORTS:

Test report recorded under the reference ACE 06/843/01.

4. APPLICATION / LIMITATION:

4.1 - BV Rules for the Classification of Steel Ships.

4.2 - Approval also valid for ships to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - In accordance with the manufacturer instructions.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **Schneider Toshiba Inverter Europe S.A.S** in compliance with the type and the requirements described in this certificate.

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

5.3 - BV product certificate is required.

5.4 - **Schneider Toshiba Inverter Europe S.A.S** has declared to Bureau Veritas the following production site(s):

**Schneider Electric Industries SAS -
Le Vaudreuil
2 Rue du Pont Vert
27109 Le Vaudreuil
FRANCE**

**APC India Pvt Ltd
187/3 & 188/3, Jigani Village,
Jigani Hobli
Bangalore
INDIA**

**SSD Schneider Suzhou Drives Co Ltd
No.7 Loujiang East Road, Weiting Town,
SIP
Suzhou
P.R.CHINA**

6. MARKING OF PRODUCT:

- Maker's name or trade mark,
- Serial number of the units,
- Equipment type number or model identification under which it was type-tested,
- Society's brand as relevant.

7. OTHERS:

7.1 - It is **Schneider Toshiba Inverter Europe S.A.S'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. 20220/B1 BV issued on 17 Jun 2015 by the Society.

*** END OF CERTIFICATE ***

