



Marine & Offshore  
Division

Certificate number: 41515/A0 BV

File number: ACE 06/843/01

Product code: 2897H

*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*

**INVERTERS**

ALTIVAR 71

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

*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: 17 Jun 2020**

**For BUREAU VERITAS,**

At BV LA ROCHELLE, on 17 Jun 2015,

Patrice DAVID



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.

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BV Mod. Ad.E 530 October 2014

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### **1. PRODUCT DESCRIPTION:**

The **Altivar ATV71 drive** is a frequency inverter for 3-phase asynchronous motors and is dedicated to constant torque applications.

#### **1.1 - Approval's range:**

##### 1.1.1 - ATV71H 200-240V:

<b>kW</b>	<b>HP</b>	<b>Reference</b>
0.37	0.5	ATV71H037M3
0.75	1	ATV71H075M3
1.5	2	ATV71HU15M3
2.2	3	ATV71HU22M3
3	x	ATV71HU30M3
4	5	ATV71HU40M3
5.5	7.5	ATV71HU55M3
7.5	10	ATV71HU75M3
11	15	ATV71HD11M3X
15	20	ATV71HD15M3X
18.5	25	ATV71HD18M3X
22	30	ATV71HD22M3X
30	40	ATV71HD30M3X
37	50	ATV71HD37M3X
45	60	ATV71HD45M3X
55	75	ATV71HD55M3X
75	100	ATV71HD75M3X

##### 1.1.2 - ATV71H 380-480V

<b>kW</b>	<b>HP</b>	<b>Reference</b>
0.75	1	ATV71H075N4
1.5	2	ATV71HU15N4
2.2	3	ATV71HU22N4
3	x	ATV71HU30N4
4	5	ATV71HU40N4
5.5	7.5	ATV71HU55N4
7.5	10	ATV71HU75N4
11	15	ATV71HD11N4
15	20	ATV71HD15N4
18.5	25	ATV71HD18N4
22	30	ATV71HD22N4
30	40	ATV71HD30N4
37	50	ATV71HD37N4
45	60	ATV71HD45N4
55	75	ATV71HD55N4
75	100	ATV71HD75N4
90	125	ATV71HD90N4

## 1.1.3 - ATV71H 500-690V

690V kW	600V HP	500V kW	Reference
2.2	2	1.5	ATV71HU22Y
3	3	2.2	ATV71HU30Y
4	-	3	ATV71HU40Y
5.5	5	4	ATV71HU55Y
7.5	7.5	5.5	ATV71HU75Y
11	10	7.5	ATV71HD11Y
15	15	11	ATV71HD15Y
18.5	20	15	ATV71HD18Y
22	25	18.5	ATV71HD22Y
30	30	22	ATV71HD30Y
37	40	30	ATV71HD37Y
45	50	37	ATV71HD45Y
55	60	45	ATV71HD55Y
75	75	55	ATV71HD75Y
90	100	75	ATV71HD90Y

**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.

- ATV61/71 Test Report issued by Schneider Toshiba Inverter Europe S.A.S, dated 10 Apr 2015

**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 described in this certificate.

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

5.3 - **Schneider Toshiba Inverter Europe S.A.S** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

**Schneider Toshiba Inverter Europe S.A.S**  
**33 rue André Blanchet**  
**F-27120 Pacy-sur-Eure**  
**FRANCE**

**6. MARKING OF PRODUCT:**

6.1 - Maker's name or trade mark,

6.2 - Serial number of the units,

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

**7. OTHERS:**

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **Schneider Toshiba Inverter Europe S.A.S** will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

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