



**Marine & Offshore
Division**

Certificate number: 41514/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 61.

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: 19 May 2020

For BUREAU VERITAS,

At BV SAINT-OUEN L'AUMONE, on 19 May 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 ATV61 drive** is a frequency inverter for 3-phase asynchronous motors, and is dedicated to variable torque applications.

1.1 - Approval's range:

1.1.1 - ATV61H 200-240V:

kW	HP	Reference
0.37	0.5	ATV61H037M3
0.75	1	ATV61H075M3
1.5	2	ATV61HU15M3
2.2	3	ATV61HU22M3
3	x	ATV61HU30M3
4	5	ATV61HU40M3
5.5	7.5	ATV61HU55M3
7.5	10	ATV61HU75M3
11	15	ATV61HD11M3X
15	20	ATV61HD15M3X
18.5	25	ATV61HD18M3X
22	30	ATV61HD22M3X
30	40	ATV61HD30M3X
37	50	ATV61HD37M3X
45	60	ATV61HD45M3X
55	75	ATV61HD55M3X
75	100	ATV61HD75M3X
90	125	ATV61HD90M3X

1.1.2 - ATV61H 380-480V:

kW	HP	Reference
0.75	1	ATV61H075N4
1.5	2	ATV61HU15N4
2.2	3	ATV61HU22N4
3	x	ATV61HU30N4
4	5	ATV61HU40N4
5.5	7.5	ATV61HU55N4
7.5	10	ATV61HU75N4
11	15	ATV61HD11N4
15	20	ATV61HD15N4
18.5	25	ATV61HD18N4
22	30	ATV61HD22N4
30	40	ATV61HD30N4
37	50	ATV61HD37N4
45	60	ATV61HD45N4
55	75	ATV61HD55N4
75	100	ATV61HD75N4
90	125	ATV61HD90N4

1.1.3 - ATV61H 500-690V:

690V	600V	500V	Reference
kW	HP	kW	
3	3	2.2	ATV61HU30Y
4	-	3	ATV61HU40Y
5.5	5	4	ATV61HU55Y
7.5	7.5	5.5	ATV61HU75Y
11	10	7.5	ATV61HD11Y
15	15	11	ATV61HD15Y
18.5	20	15	ATV61HD18Y
22	25	18.5	ATV61HD22Y
30	30	22	ATV61HD30Y
37	40	30	ATV61HD37Y
45	50	37	ATV61HD45Y
55	60	45	ATV61HD55Y
75	75	55	ATV61HD75Y
90	100	75	ATV61HD90Y

2. DOCUMENTS AND DRAWINGS:

Catalogue ATV61, referenced DIA2ED2050905 rev. A01, dated 09/2005.

User Manual ATV61, referenced W81757403 rev. A04, dated 05/2007.

Installation Manual / Outline Drawings ATV61, referenced W91757395 rev. A03, 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 **Altivar 61 ATV61 drives** 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 ***