



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

20-1958539-PDA-DUP
23-Mar-2020
22-Mar-2025
Houston ESD - Electrical

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

SCHNEIDER (WUXI) DRIVES CO., LTD.

located at

**NO.20 HANJIANG ROAD, WUXI XINWU DISTRICT, WUXI, JIANGSU,
China**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Motor Controller
Model: Altivar 61 (ATV 61), Altivar 71 (ATV 71)
Endorsements:
Tier: 5 - Unit Certification Required

This Product Design Assessment (PDA) Certificate remains valid until 22/Mar/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Soheni Haque, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

SCHNEIDER (WUXI) DRIVES CO.

NO.20 HANJIANG ROAD

WUXI XINWU DISTRICT

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Email: xiaoqin-cindy.tang@schneideelectric.com

Web: schneideelectric.com

Tier: 5 - Unit Certification Required

Product: Motor Controller
Model: Altivar 61 (ATV 61), Altivar 71 (ATV 71)
Endorsements:

Intended Service:

Marine and Offshore Applications - Speed control and protection of three phase industrial AC electric motors for use as a variable speed motor controller for multiple applications.

Description:

Altivar 61 is a Variable Speed Drive dedicated mainly to Variable Torque applications such as pumps, fans, compressors, etc., and other light duty Constant Torque applications.

Altivar 71 is a Variable Speed Drive dedicated mainly to constant torque applications such as material handling, hoisting, industrial processes, etc.

Altivar 61 and Altivar 71 control 3 phase Induction Motors or PM/Synchronous Motors, and provide mechanical and thermal protection to the motor.

Rating:

Altivar 61 and Altivar 71 voltage ratings cover low voltage AC power supplies systems from 200V to 690VAC

Altivar 61 power ratings cover 0.5HP to 900HP range,

Altivar 71 power ratings cover 0.5HP to 700HP range.

Enclosure rating Altivar 61: UL Type 1/IP20; UL Type 12/IP54.

Enclosure rating Altivar 71: UL Type 1/IP23; UL Type 12/IP54.

Temperature: ATV 61 NEMA Type 1, 12, 12K: +14 to +104 °F (-10 to 40 °C); NEMA Type 3R: +14 to +122 °F (-10 to 50 °C); ATV 71: -10 to 50 °C

Service Restriction:

- i) Unit Certification is required for this product when used for essential services (Steel Vessel Rules 4-8-1/ Table 1 & 2) or for services indicated in Steel Vessel Rules 4-8-3/Table 7 rated 100 kW (135 HP) and over.
- ii) If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
- iii) Propulsion of vessels other than bow thrusters does not fall under applications covered by Altivar 61 and Altivar 71.

Comments:

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 2) PDA Duplicate resides with PT Schneider Electric MFG Batam - INDONESIA; Schneider Suzhou Drives Co. Ltd. - CHINA; and Schneider Electric Industries SAS, 2 rue de Pont Vert ZAC Le Village, Le Vaudreuil 27100 France.
- 3) Motor Controller enclosure IP/UL/NEMA rating to be based on Steel Vessel Rules 4-8-3/Table 2, based on their installation location.

Notes/Drawing/Documentation:

Drawing No. DOC, Declaration of Conformance - 15-HS1321300-PDA, Revision: -, Page1: 1

Drawing No. app ctrl, PDA Application, Revision: -, Pages: 3

Supporting Documents (from Previous Tasks):

Report on Power Conversion Equipment - File E116875 Vol. 2 Sec. 7 Project 05NK06938, issued 2005-07-07, Revised 2018-11-30.

Report on Power Conversion Equipment - File E116875 Vol. 2 Sec. 12 Service Request, Issued 2005-10-10, Revised 2018-09-12.

Declaration of Conformity dated 21 January 2015.

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Tier: 5 - Unit Certification Required

Terms of Validity:

This Product Design Assessment (PDA) Certificate remains valid until 22/Mar/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

The Rules for Conditions of Classification, Part 1 2020 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2020 Steel Vessels 4-8-3/1.11.1, 5.1, 5.3.1, 5.7, 8.7.4.

The Rules for Conditions of Classification, Part 1 2020 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following

2020 Mobile Offshore Units 4-3-1/15, 4-3-3/3.13, 3.15.

National:

UL508C, Edition 4, 2016.

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA